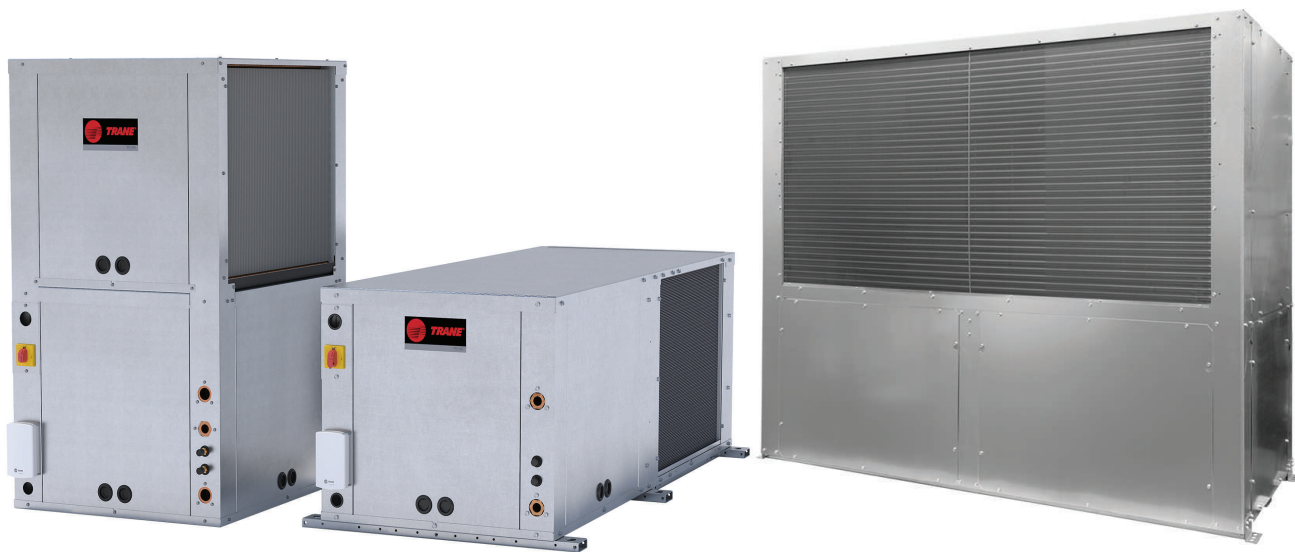




Product Catalog

# Water Source Heat Pump Axiom™ Horizontal/Vertical – GEH/V\*

0.5 to 25 Tons – 50/60 Hz

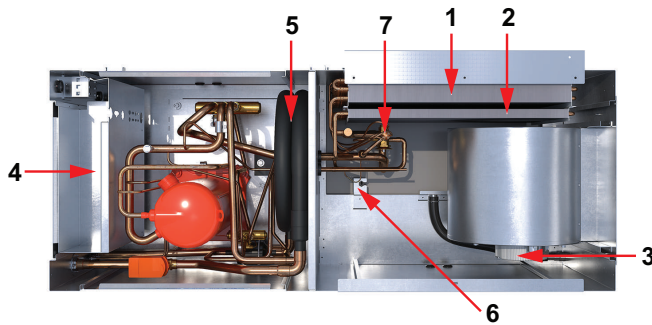




# Introduction

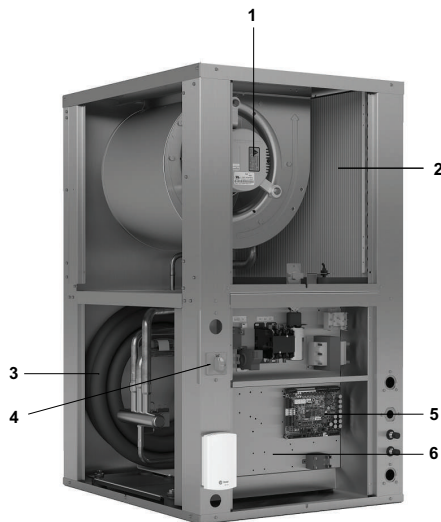
Imagine a full range of comfort utilizing efficiency, sound attenuation, integrated controls, and superior maintenance accessibility. The GEH and GEV models are Trane® water source comfort solutions. The GEH unit is a ceiling hung product that provides serviceability to maintenance components; indoor air quality standards; sound attenuation; and best of all, higher efficiencies rated in accordance to ANSI/AHRI/ASHRAE/ISO13256-1 performance and ASHRAE 90.1 standards. Highlights of these units are included, but not limited to the below items.

**Figure 1. GEHK unit (0.5 to 5 tons)**



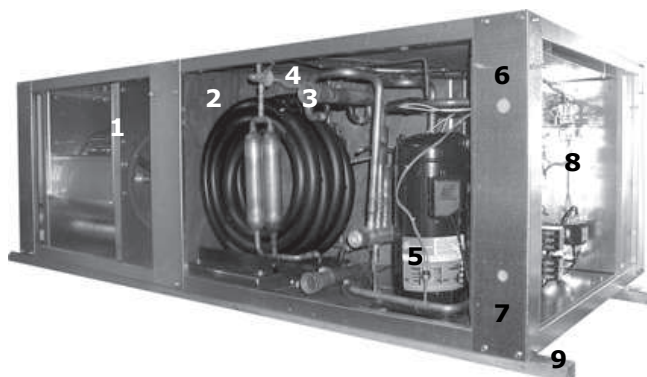
1. Air-to-refrigerant coil (horizontal design)
2. Hot gas reheat coil (optional)
3. ECM variable speed motor with orifice ring motor mounting device (standard for ease of service)
4. Integrated controls with drop down control box for access to internal unit components
5. Coaxial refrigerant-to-water heat exchanger
6. Dual-sloped, non corrosive drain pan with condensate overflow switch
7. TXV

**Figure 2. GEVK unit (0.5 to 5 tons)**



1. ECM variable speed motor with orifice ring motor mounting device (standard for ease of motor service)
2. Air-to-refrigerant coil (vertical design)
3. Coaxial refrigerant-to-water heat exchanger
4. Unit mounted disconnect switch
5. Trane Symbio™ 400-B controls
6. Drop down control box removable for access to internal unit components

**Figure 3. GEH unit (10 tons)**



1. Fan blower section
2. Co-axial heat exchanger
3. Water connections
4. Thermal expansion valve
5. Dual compressor
6. Low voltage
7. High voltage
8. Integrated controls
9. Hanging rails

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## Revision History

- Replaced Waterside Economizer Package and Ducted Filter Rack (0.5 to 5 tons) images in Features and Benefits chapter.
- Updated Ducted filter opening size - 0.5 to 5 tons table in Features and Benefits chapter.
- Updated Ducted Panel - Return Air (0.5 to 5 tons) topic in Features and Benefits chapter.
- Updated Model Number Description chapter.
- Removed Pump Module section in General Information chapter.
- Updated Waterside economizer (GEVK) figures in Unit Dimensions chapter.
- Updated Dimensional data Waterside economizer (GEVK) tables in Unit Dimensions chapter.
- Added Waterside Economizer topic under the Performance Data chapter.
- Updated Electrical data - ECM motors - 0.5 to 5 tons and Electrical data two speed blower motor 6 to 25 tons Tables in the Electrical Data chapter.
- Added Waterside economizer coil piping diagram in Unit Dimensions chapter.
- Updated Electrical data - ECM motors - 0.5 to 5 tons GEV/H and Electrical data two speed blower motor 6 to 25 tons tables in Electrical data chapter.
- Removed Pump Module (Field Installed Accessory) in Mechanical Specifications chapter.



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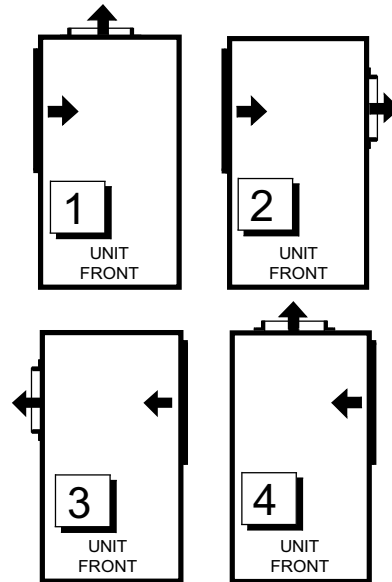
## Features and Benefits

### Airflow Combinations

#### GEH (0.5 to 5 Tons)

The GEH model configuration is built to order to meet unique installation requirements. Units must be ordered with the correct return orientation as this cannot be modified in the field.

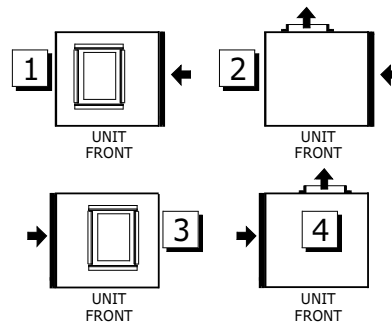
1. Left return-air with back supply-air combination
2. Left return-air with right supply-air combination
3. Right return-air with left supply-air combination
4. Right return-air with back supply-air combination



#### GEV (0.5 to 5 Tons)

The GEV model is not capable of on-site modifications. Units must be ordered with the correct return and supply orientation as this cannot be modified in the field.

1. Right return-air with top supply-air combination
2. Right return-air with back supply-air combination
3. Left return-air with top supply-air combination
4. Left return-air with back supply-air combination



#### GEH (6 to 15 Tons)

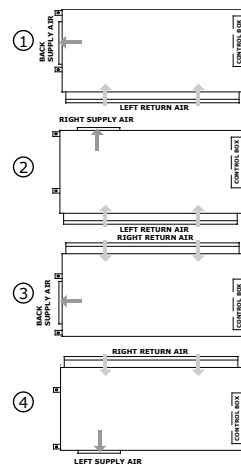
The 6 to 15 ton horizontal cabinet airflow flexibility includes the following combinations to aid in applications where the equipment is required to hug a corridor or wall.



## Features and Benefits

The four configurations are:

1. Left return-air with back supply-air combination
2. Left return-air with right supply-air combination
3. Right return-air with back supply-air combination
4. Right return-air with left supply-air combination

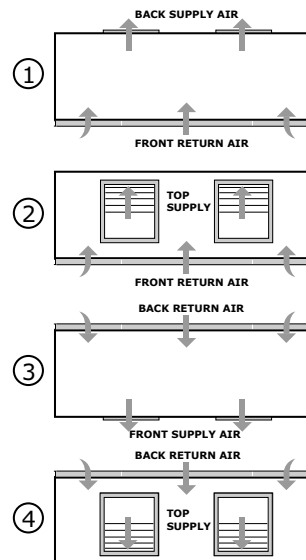


## GEV (6 to 25 Tons)

The sleek, narrow cabinet of the 6 to 25 ton vertical cabinet is designed to fit through a standard 36-in. doorway for installation during new or retrofit construction. The equipment is available in four supply-air/return-air combinations. These combinations are order specific via the unit model number.

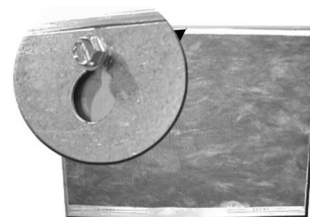
The four configurations are:

1. Front return-air with back supply-air combination
2. Front return-air with top supply-air combination
3. Back return-air with front supply-air combination
4. Back return-air with top supply-air combination



## Access Panels

The upper panels of the GEV 12.5 to 25 ton units feature a key hole hanging design for ease of maintenance of the unit, allowing the panel to be hooked into place when attaching the panel to the unit. The panels are also sealed with a rubber gasket at all four edges to help eliminate air from escaping around the panel edge.



## Air-Side Filter (0.5 to 25 Tons)

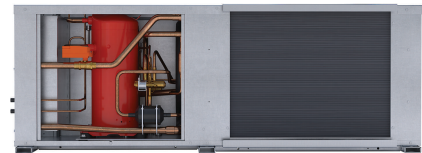
The air-side filter incorporates a 1-inch thick (nominal) or 2-inch thick (nominal), MERV 8 or MERV 13 disposable filter option. Accessory filters are also available (0.5 to 5 tons) in 4-inch (nominal) thickness for MERV 8 and MERV 13. These filters include an average synthetic dust weight tolerance of approximately 75%. This dust holding capability includes a colorless, odorless adhesive to retain dirt particles within the filter media after fiber contact.



## Air to Refrigerant Coil (0.5 to 5 Tons)

The air-to-refrigerant heat exchanger is constructed of staggered copper tubes with die-formed corrugated lanced aluminum fins. The fins are then mechanically bonded to the tubes through expansion.

The maximum working pressure for the coils is 600 psig. It is designed for maximum capacity with an additional benefit of physical unit size reduction. Coil specifications may be found in the General Data section of this catalog.



## Blower Housing

The blower housing is constructed of non-corrosive galvanized steel. For 0.5 to 5 ton direct drive units, a factory-mounted orifice ring is provided for ease of motor serviceability.

For 6 to 25 ton units, the housing is a double wide/double inlet, forward curved wheel moved by an integral horsepower motor with sealed bearings.

## Blower Motor (0.5 to 5 Tons)

The motor is an ECM variable speed motor with electronic protection. The ECM motor is programmed to provide soft starting and a constant torque over a range of static pressure. A means to adjust the air flow is provided with a control board. The motor contains a quick disconnect plug and permanently lubricated bearing. The fans are placed in a drawthrough configuration. They are constructed of corrosion resistant galvanized material. Removal of the motor and fan wheel can be made with the assistance of a factory provided orifice ring device. This device attaches the wheel and motor to the fan housing in a single assembly eliminating the need for access to the set screw on the backside of the fan hub.



## Boilerless Control, Electric Heat (Option)

In cooling dominant regions where heat may be used 15 to 30 days out of the winter season, eliminating the boiler may be an economical advantage to the building owner. Eliminating a boiler from the system reduces costs associated with the mechanical system installation, as well as the maintenance and service of the boiler.

How can heat be provided for the few days of the year when heat is necessary? Through the water-source heat pump of course. The advantage of the water-source heat pump is its ability to provide heat recovery within the closed water-loop. While some WSHPs may be extracting heat from the closed water loop, other WSHPs may be adding heat to the closed water loop. This creates a perfect system balance for heat sharing or movement from one space to another.



## Features and Benefits

But when water temperatures fall in a boilerless system, and no further heat recovery may be made using the closed loop, heat may be added to the space through a boilerless control electric heat option.

For 0.5 to 25 ton units, what is NOT available with the boilerless electric heat option? Hot gas reheat and supplemental<sup>1</sup> or emergency heat applications and a factory-installed heater<sup>2</sup>.

### How it Works

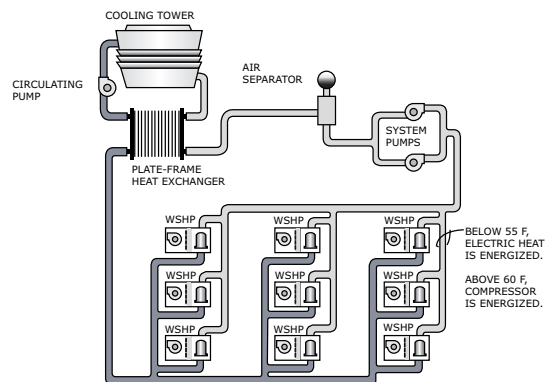
In heating mode, when the water temperature falls below 55°F (factory setting), the electric heater is energized, locking out the compressor. The system's electric heat source will continue to be utilized for primary heating until the loop temperature rises above 60°F. Once the entering water temperature rises above 60°F, the boilerless controller returns the unit to normal compressor heating operation and locks out the electric heater. This maximizes efficiency from the unit during the few days requiring heat from the mechanical system.

**Note:** For geothermal applications, the boilerless controller has an adjustable setting of 25, 35, 45, 55 and 60°F.

## Boilerless Control, Electric Heat System

For 0.5 to 5 ton units, with external Electric Duct Heater (EDH) option, the heater contains a nichrome open wire heating element with corrosion-resistant terminals. Elements are supported every four inches by steatite insulators. Depending on the heating capabilities selected (Low, Medium, High), the heater could contain up to two stages of electric heat designed to operate an electric heater in place of the compressor in the event entering water temperature falls below 55°F or a field adjusted temperature setting between 25°F to 60°F. The EDH can be installed horizontally or vertically in duct spaces, as long as they have a minimum distance of (4) feet downstream from the blower, and minimum of (2) feet either side of an elbow or turn in the duct.

For 6 to 25 tons units, with the boilerless electric heat option, the models will contain boilerless controls ONLY to interface for a field provided supplemental electric heat selection. The heater for this model shall be placed external to the equipment by the contractor for ease of installation. All power connections for the electric heater will be completely separate from the unit.

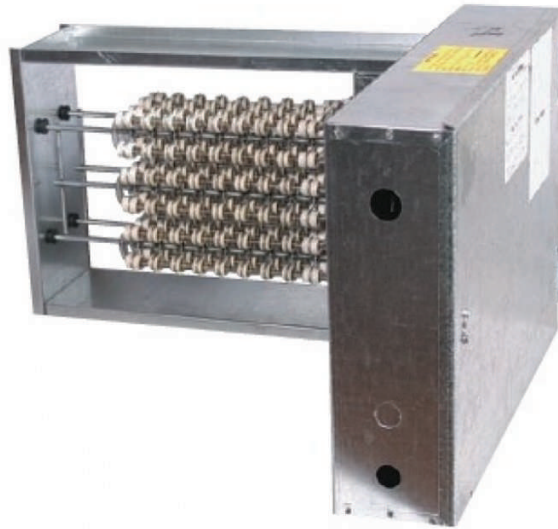


<sup>1</sup>. Only applies to 6 to 25 ton GEH/V units.

<sup>2</sup>. Only applies to 0.5 to 5 ton GEH/V units.

## Field Mounted and Wired Boilerless Control, Electric Heat

In this application, the heater shall be placed external to the unit. All power connections for the electric heater will be completely separate from the unit. The unit contains boilerless controls to interface with the field provided electric heat. See *Electric Heat and 575V Water Source Heat Pump 0.5 to 6 Tons Installation Instructions* (WSHP-SVN011\*-EN) for more information.



## Cabinet Description

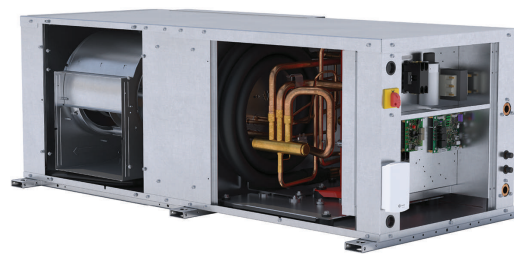
The cabinet design contains a platform utilizing similar parts and assemblies throughout the product line. It is constructed of heavy gauge (non-painted), galvanized metal for maximum durability and corrosive resistive exterior.

On the GEH/V 0.5 to 25 tons units, the cabinet front allows service access for the controls. For GEH/V 0.5 to 5 tons models, refrigeration circuitry is accessed through the cabinet front. In addition, water-in/out connection and high/low voltage hook-up is accomplished at the corners on the front-side of the equipment.

For 6 to 15 tons units, hanging the horizontal configuration is accomplished through the robust metal stiffeners located beneath the unit. Optional vibration isolators are available to help decrease sound vibration during equipment operation.

### GEH Cabinet (0.5 to 5 Tons)

There are four product variations of return-air and supply-air combinations which are order-specific.



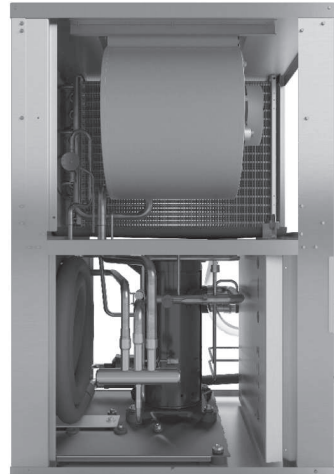


## Features and Benefits

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### GEV Cabinet (0.5 to 5 Tons)

The vertical design offers four product variations of return-air and supply-air combinations. These are factory options for made to order unit construction.



### Cabinet Insulation

The cabinet insulation design meets UL 181 requirements. The air-stream surface of the insulation is fabricated of a non-biodegradable source.

### Co-axial Water-to-Refrigerant Coil

The unit's internal heat exchanging water coil is engineered for maximum heat transfer.

The copper or cupro-nickel seamless tubing is a tube within a tube design. The inner-water tube contains a deep fluted curve to enhance heat transfer and minimize fouling and scaling. It is available in either copper or cupro-nickel (selectable option) coil. The outer refrigerant gas tube is made from steel material. The coil is leak tested to assure there is no cross leakage between the water tube and the refrigerant gas (steel tube) coil. Co-axial heat exchangers are more tolerant to freeze rupture.



### Compressors

The unit's design includes a wide variety of compressor motors to accommodate dedicated voltages and tonnage sizes.

The 0.5 to 1.5 tons products have a rotary compressor design. The scroll compressor design is used in 2 to 5 tons units.

In 6 to 25 ton units, dual circuit designs of the GEH and GEV models feature scroll compressors. The compressors are highly efficient and incorporate external vibration isolators and thermal overload protection.

These different styles allow Trane to provide the voltage variations along with noise reduction required in today's applications.





## Compressor and Co-axial Coil Isolation (0.5 to 5 Tons)

Vibration isolation of the compressor and co-axial water coil is accomplished by increasing the rigidity and stiffness at the base. The platform provides double isolation to the compressor and the co-axial water coil for additional attenuation during compressor start and stop.

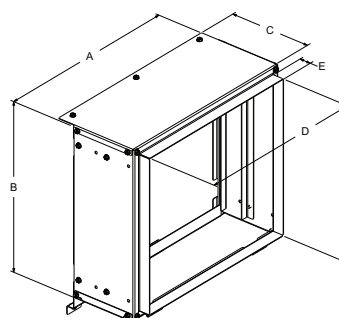
## Drain Pan

The unit drain pan is composed of polymer material. The pan is positively sloped to comply with ASHRAE 62 for (IAQ) indoor air quality conformity. Optional stainless steel drain pans are also available. Access to the drain pan is provided through two access panels for cleaning purposes.



## Ducted Filter Rack (0.5 to 5 tons)

When it is necessary to have filter access at the unit in a ducted return, a ducted filter rack is available. This option allows access to the filter at the unit. Vertical unit filter racks are available in right or left access configurations. Horizontal units are available in bottom access configurations.



**Table 1. Ducted filter opening size - 0.5 to 5 tons**

| Unit Size   | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) |
|-------------|---------|---------|---------|---------|---------|---------|
| GEHK006-012 | 16.50   | 14.25   | 6.6     | 14.68   | 1       | 12.75   |
| GEHK015-018 | 19.00   | 16.25   | 6.6     | 17.66   | 1       | 14.75   |
| GEHK024-030 | 20.50   | 17.25   | 6.6     | 18.83   | 1       | 15.75   |
| GEHK036-042 | 23.50   | 18.50   | 6.6     | 21.83   | 1       | 16.75   |
| GEHK048-060 | 30.00   | 20.25   | 6.6     | 28.67   | 1       | 18.75   |
| GEVK006-012 | 16.50   | 14.25   | 6.6     | 14.65   | 1       | 12.75   |
| GEVK015-018 | 19.00   | 16.25   | 6.6     | 17.63   | 1       | 14.82   |
| GEVK024-030 | 20.50   | 17.25   | 6.6     | 19.13   | 1       | 15.82   |
| GEVK036-042 | 23.50   | 18.50   | 6.6     | 22.13   | 1       | 16.82   |
| GEVK048-060 | 30.00   | 20.25   | 6.6     | 28.63   | 1       | 18.82   |

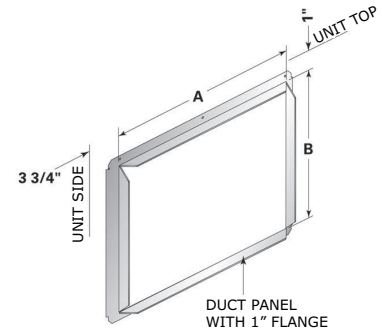
**Note:** All dimensions in inches. All dimensions are for accessory 2 or 4-inch filter rack.



## Features and Benefits

### Ducted Panel - Return Air (0.5 to 5 tons)

The return-air arrangement may be easily converted from a free return-air system, to a ducted return-air system with the addition of a return-air side panel. By replacing the filter racks with the return-air panel, a complete seal from the duct to the unit is possible. The 1-inch duct flange facilitates ease of field connection to the duct system. This accessory is typically used when the return-air filter is placed in a built-in ceiling grille, or placed within a field provided filter rack assembly.



**Table 2. Ducted panel - return air**

| Unit size (60 Hz) | A (in.) | B (in.) | Duct Collar Part Number |
|-------------------|---------|---------|-------------------------|
| GEVK006-012       | 16.00   | 14.50   | WSHPPND00001            |
| GEVK015-018       | 18.50   | 16.50   | WSHPPND00002            |
| GEVK024-030       | 20.00   | 17.50   | WSHPPND00003            |
| GEVK036-042       | 23.00   | 18.50   | WSHPPND00004            |
| GEVK048-060       | 29.50   | 20.50   | WSHPPND00005            |
| GEHK006-012       | 16.00   | 14.50   | WSHPPND00010            |
| GEHK015-018       | 18.50   | 16.50   | WSHPPND00011            |
| GEHK024-030       | 20.00   | 17.50   | WSHPPND00012            |
| GEHK036-042       | 23.00   | 18.50   | WSHPPND00013            |
| GEHK048-060       | 29.50   | 20.50   | WSHPPND00014            |

### Expansion Valve

The refrigerant flow metering is made through the thermal expansion valve (TXV).

It allows the unit to operate with an entering fluid temperature from between 45°F and 120°F for cooling and between 25°F and 86°F for heating and entering air temperatures from 55°F to 85°F.

The valve is designed to meter refrigerant flow through the circuitry to achieve desired heating or cooling.

Unlike cap-tube assemblies, the expansion valve device allows the exact amount of refrigerant required to meet the coil load demands. This precise metering by the TXV increases the efficiency of the unit and eliminates the need for a water regulating valve.



## Hanging Device

The hanging bracket resides on each side of the three hanging rails of the horizontal 0.5 to 5 ton equipment. The brackets are factory mounted to shorten job installation requirements. The 0.5 to 5 ton unit is shown to the right.

The structural integrity of the design helps assure no bracket deflection or unit bowing from the unit's weight. Isolation for the hanging bracket is provided with a neoprene rubber grommet design. The grommets are a separately ordered accessory on the GEH 6 to 15 tons models. A grommet kit (KIT15407) containing four grommets can be ordered if desired.

This isolation device helps prevent sound vibration from reaching the structural support members of the building during compressor start and stop.

The hanging channel for the horizontal unit (GEH 6 to 15 tons) runs the length of the equipment.



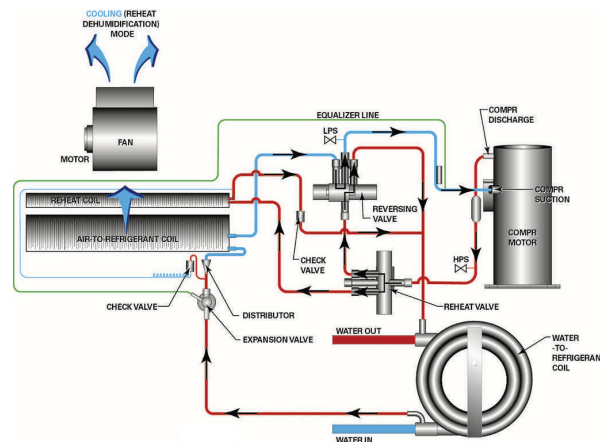
## Hot Gas Reheat

For space conditioning and climate control, Trane provides an accurate and cost effective dehumidification control through a hot gas reheat option.

With this reheat option, the return air from the space is conditioned by the air-to-refrigerant coil, then reheated by the reheat coil to control not only the space temperature, but to also reduce the relative humidity of the space. The moisture removal capability of a specific heat pump is determined by the units latent capacity rating.

When operating in the reheat mode (meaning the sensible temperature has been met in the space), the humidistat signals the reheat relay coil to energize, allowing the high pressure refrigerant gas to flow from the compressor, through the reheat valve, into the reversing valve, and through the reheat coil for dehumidification.

**Note:** GEH/V 0.5 to 5 tons image shown to the right. Trane places an air separation space between the air-to-refrigerant coil, and the reheat coil to allow for maximum moisture removal.



## Hot Gas Reheat - Applications

The hot gas reheat option is designed to support building applications requiring fresh-air ventilation units delivering unconditioned-air directly to the space. It also provides dehumidification to large latent load spaces such as auditoriums, theaters and classrooms, or anywhere humidity control is a problem.

## Hot Gas Reheat - Design

Water-source heat pumps with hot gas reheat should not be used as a make-up air unit.

Water regulating valves should not be used with the hot gas reheat option. Trane places a thermal expansion valve on all water-source heat pumps, as well as ground-source heat pumps, to regulate refrigerant flow vs. water flow, making the heat pump more efficient to run.



## Features and Benefits

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### Leak Detection System

The Leak Detection System (LDS) consists of one or more refrigerant detection sensors and is required in ducted HVAC systems that have more than 3.91 lbs of A2L refrigerant charge, per safety standard UL 60335-2-40. For any units with more than 3.91 lbs of charge in a circuit, an LDS will be factory-installed. Having the leak detector installed in the factory by the manufacturer on applicable units reduces the risk of improper installation in the field as well as bypassing the added cost in the field for installation, leading to peace of mind that the right solution has been applied to your unit.

### Motorized Water Valve

The two-position motorized water valve is installed on the return line of the water loop system between the loop and the loop's pump module.

When the compressor begins running, the two-position valve will open, allowing water to flow through the unit. As the compressor shuts down, the valve slowly closes off. The main purpose of the motorized valve is to shut-off the flow of water through the unit when the unit is off, thus reducing pump energy consumption. The two-position motorized valve is fast opening to prevent compressor trip-out, and slow closing to prevent water hammer.

### Refrigerant Piping

The unit's copper tubing is created from a 99% pure copper formation that conforms to the American Society of Testing (ASTM) B743 for seamless, light-annealed processing.

The unit's copper refrigeration system is designed to be free from contaminants and conditions such as drilling fragments, dirt, or oil. This excludes the possibility of these contaminants from damaging the compressor motor.

### Reversing Valve

A system reversing valve (4-way valve) is included with all heating/cooling units. This valve is piped to be energized in the cooling mode to allow the system to provide heat if valve failure were to occur. Once the valve is energized for cooling, it will remain energized until the control system is turned to the "OFF" position, or a heating cycle is initiated.



### Schrader Connections

For 0.5 to 5 tons vertical and horizontal units, the Schrader/CoreMax® connections are located adjacent to the unit control box.

For 6 to 25 tons, these connections are brazed to the suction and the discharge lines.



### Sound Attenuation Package (0.5 to 5 Tons Units)

Testing of conventional units has identified that the sound radiated by the casing of the unit is an important component of the sound that reaches occupants, especially when the unit is located directly over the occupied space.

This sound reduction package reduces radiated noise from the cabinet. Trane® double-isolates the compressor and single-isolates the co-axial coil in the unit. This design absorbs the vibration that contributes to radiated sound. For sound critical spaces, an enhanced sound package as described in the following table provides additional attenuation.

**Table 3. Sound package**

| Standard Sound Attenuation Package                                                                   | Deluxe Sound Attenuation Package (Option) <sup>(a)</sup> |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Lined compressor enclosure with 1/2-inch cabinet insulation                                          | Panel Mass Loading                                       |
| 14-gauge compressor/water-to-refrigerant heat exchanger pan with second stage of vibration isolation | Larger Blowers                                           |
| Compressor double vibration isolation                                                                | Cabinet insulation thickness of 2-inch in certain areas  |
| Water-to-refrigerant heat exchanger vibration isolation                                              | Compressor blanket                                       |
| Unit base stiffeners                                                                                 | —                                                        |

<sup>(a)</sup> Different combinations of these attenuation treatments maybe be applied for the deluxe sound option depending on unit size and cabinet configuration.

## Two-Speed Blower Motor (6 to 25 Tons Option)

The 6 to 25 tons GEH/V models have indoor blowers that are available with 2 speed motors, selectable in the model number (Digit 12, drive packages 1-9). High speed airflow matches the single speed motor airflow, referenced in the fan performance tables. Low fan speed airflow is approximately 50% of high fan speed airflow.

The 6 to 25 tons GEH/V 2 speed blower motors are available with the following options: deluxe 24V or Symbio™ 500 controls, heat pump or heat pump w/ hot gas reheat or heat pump w/ waterside economizer. Not available with boilerless or supplemental electric heat.

**Table 4. 6 to 25 tons GEH/V fan speed for 2 speed drive packages 1 to 9**

| RV State | Fan | Compressor 1 | Compressor 2 | Fan Speed |
|----------|-----|--------------|--------------|-----------|
| Heat     | OFF | OFF          | OFF          | OFF       |
| Heat     | ON  | OFF          | OFF          | LOW       |
| Heat     | ON  | ON           | OFF          | HIGH      |
| Heat     | ON  | ON           | ON           | HIGH      |
| Cool     | OFF | OFF          | OFF          | OFF       |
| Cool     | ON  | OFF          | OFF          | LOW       |
| Cool     | ON  | ON           | OFF          | LOW       |
| Cool     | ON  | ON           | ON           | HIGH      |

## Water Connections

### 0.5 to 5 Tons

The water-in/water-out connections to the co-axial water coil are located on the right-hand corner of the unit.

The water connection devices are constructed of copper material and include an internal pipe thread (NPT) junction. The connections are attached to the unit's corner to alleviate the need for a back-up wrench during installation.



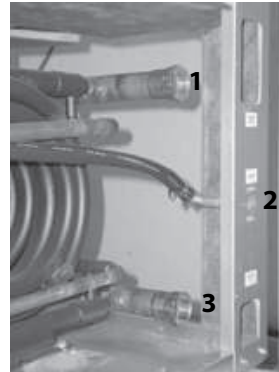


## Features and Benefits

### 6 to 25 Tons

Water hookups for the 6 to 25 tons units are located internal to the equipment to help alleviate damage to the water copper during shipment or job storage of units prior to installation. Each unit (although dual circuit) contains a single supply and return water connection. The figure provides large tonnage water hook-up information for model GEV.

1. Water-out
2. Drain
3. Water-in



### Waterside Economizer (Option)

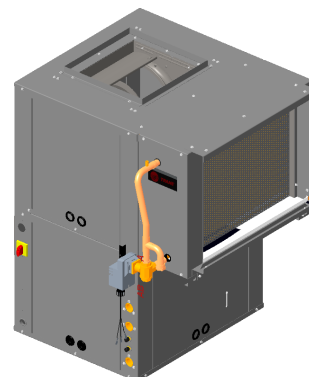
The beauty of the waterside economizer is its ability to take advantage of any loop condition that results in cool water temperatures. A prime example would be during fall, winter and spring when cooling towers have more capacity than required and could be controlled to lower temperatures for economizer support.

Another more common inexpensive means of free comfort cooling includes buildings systems where perimeter heating and core cooling are needed. In this system, the perimeter units extract heat from the building loop while in the heating mode, forcing the building loop temperature to drop. Where as, the core are of a building may require cooling in summer or in winter based upon lighting, people and equipment.

### Waterside Economizer Package

The waterside economizer is available on all 0.5 to 15 ton GEH models and 0.5 to 25 GEV models. 0.5 to 5 ton GEH model shown.

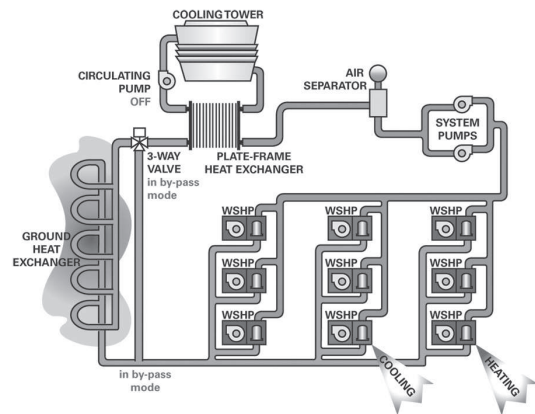
**Note:** *Condensate overflow protection for the waterside economizer coil is field provided.*



## Waterside Economizer System (0.5 to 25 Tons)

If the water-source system design contains an economizing coil option, the moderate temperature loop water circulated through a core water-source system can provide an inexpensive means to satisfy room comfort without operating the water-source heat pump's compressor.

During economizer mode, fluid enters the unit, and passes by a water temperature sensing bulb. This temperature sensing bulb determines whether the two position, three-way valve will direct the water through the waterside economizing coil, and to the heat pump condenser, or through the condenser only. If the water temperature is 55°F or less, fluid will flow into the economizing coil, while simultaneously halting mechanical operation of the compressor. Mechanical cooling will continue on a call for second stage from the thermostat.





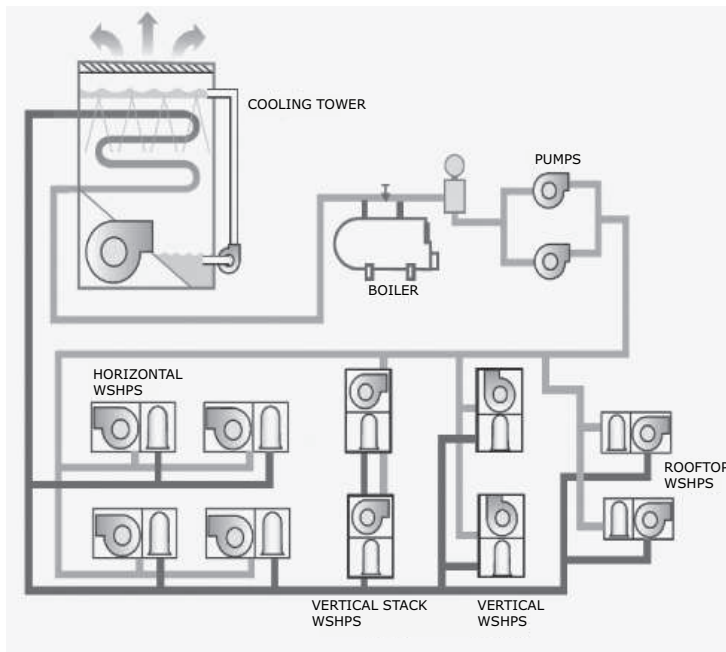
# Application Considerations

## Systems

Water-source heat pump systems are used to provide comfort in a wide range of building types and climates. The system utilizes energy-conserving, heat-recovery capabilities to transfer heat from one area to another to meet individual zone requirements. When used with system design and control strategies, these high-performance systems reduce operating costs for the building owner and improving occupant comfort.

Heat pump units are available in many different configurations and the design simplicity can be adapted to suit almost any building plan. The vertical and horizontal water-source heat pump system is versatile for installation in a boiler/cooling tower applications, as well as ground source (geothermal) applications.

**Figure 4. Conventional water-source heat pump system**



## Boiler/Cooling Tower

In this type of system, units are distributed throughout the building to provide cooling and heating to the space. Units are connected to a water distribution loop which circulated water throughout the building to transfer heat from one area to another. This common water loop yields what is essentially a heat-recovery system. Units providing heating extract heat from loop water while units providing cooling reject heat to the loop. In effect the system recovers and redistributes heat where needed.

Also connected to this water loop are a heat rejecter such as a cooling tower, a heat adder such as a boiler, circulation pumps, and related accessories. Typically, outdoor air is conditioned and delivered by a separate, dedicated ventilation system.

During warm weather when all or most of the units are cooling, the cooling tower is used to dissipate heat from the condensing process. The condensing water is cooled for recirculation back to the water-to-refrigerant heat exchanger by using a combination of heat and mass transfer by evaporation.

A boiler is also used to add heat to the water loop during winter months when most units are heating. The boiler is typically enabled when the water loop temperature falls to a minimum value.

During moderate weather, such as spring or fall, the heat pumps serving the sunny side and interior of the building often operate in cooling mode and reject heat into the water loop. The heat pumps serving the shady side of the building often operate in heating mode and absorb heat from the water loop.

Heat rejected by the units operating in cooling mode is used to offset the heat absorbed by the units in heating mode. In this manner, a WSHP system provides a form of heat recovery and an opportunity to save energy by reducing the need to operate the boiler or cooling tower. For example, if the water temperature stays in the desired range-between 60°F (16°C) and 90°F (32°C)-neither the boiler nor the cooling tower need to operate.

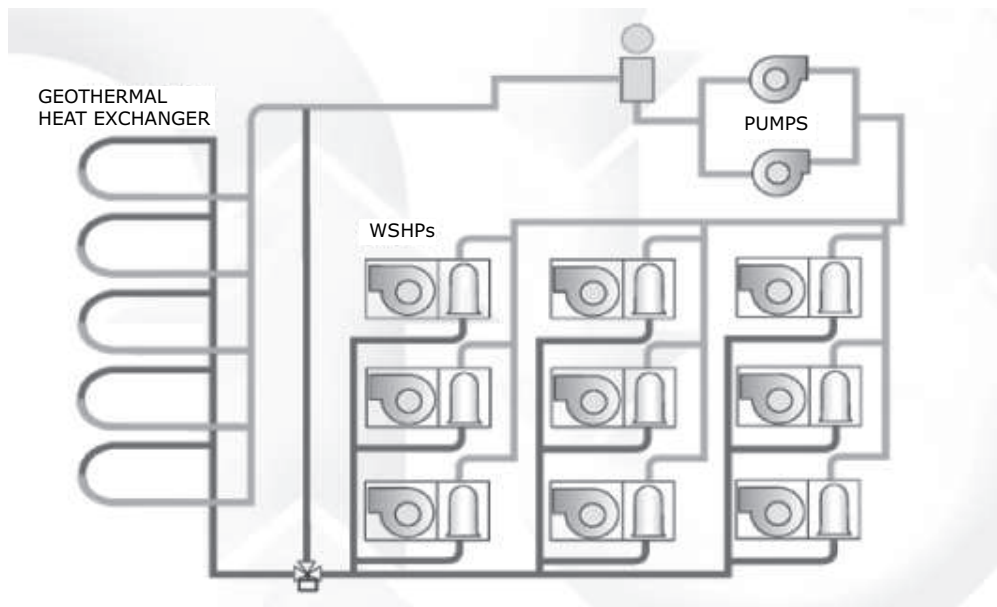


In applications such as office buildings, heat generated by lights, people, and office equipment often results in the need to provide year-round cooling in the interior zones of the building. In these applications, the benefit of this heat recovery further reduces boiler energy use during the winter months.

## Ground Source

The advantages of a geothermal heat pump system can potentially minimize heating and cooling cost by 30 to 40 percent. In this application the cooling tower and boiler are replaced with a ground heat exchanger. The ground heat exchanger is a series of pipes buried in the earth. The earth is used as an energy storage tank. Ground-source heat pump systems offer the potential for saving energy because they can reduce (or eliminate) the energy needed to operate a cooling tower and/or boiler. Eliminating the cooling tower has architectural and maintenance advantages, and eliminating the boiler frees up floor space in the building.

**Figure 5. Ground source heat pump system**



The fluctuating temperatures of fluid from the earth are more stable than air, allowing the equipment to operate at a lower discharge pressure and use fewer kilowatts. The constant earth temperature will heat or cool the fluid running through buried high density polyethylene pipe to provide heating and cooling to a building.

A geothermal loop can be installed either horizontally or vertically. Vertical loops require less overall land area to reject (i.e., sink) the excess heat from the building. Horizontal loops require trenches in the ground spanning a larger overall land area.

Although external piping is the responsibility of the installer and/or piping manufacturer, many electric utilities and rural electric cooperatives are offering monetary incentives to install geothermal systems. Utility companies offer the incentives because of reduced peak loads that flatten out their demand curve over time, and save them money. These savings are ultimately transferred to the consumer.

## Hybrid Systems

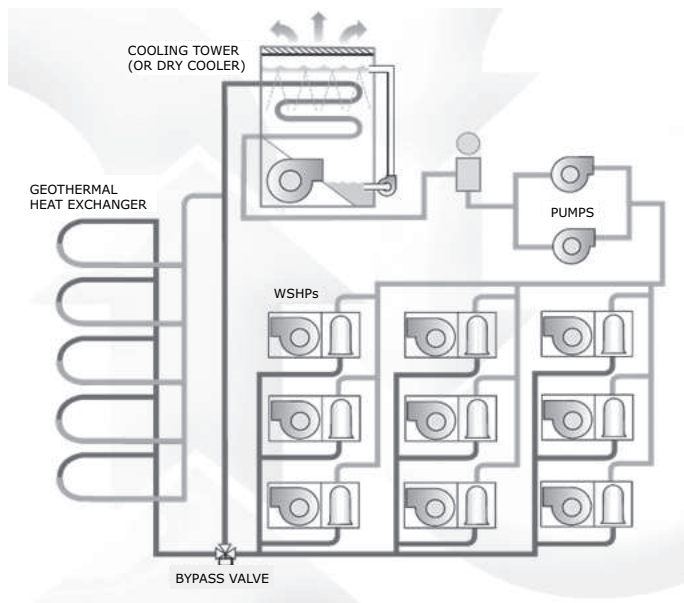
Hybrid systems involve adding a small cooling tower or dry cooler to a ground source system that is installed in a cooling-dominated climate or adding a small boiler to a system in a heating-dominated climate. In either case, the geothermal heat exchanger is sized based on the smaller of the two loads: for the total heat absorbed in a cooling-dominated climate or the total heat rejected in a heating-dominated climate. Then, a small cooling tower (or boiler) is added to reject (or add) the remaining heat.

A hybrid system may also be used in existing buildings with existing ground loops as additional rooms or buildings are added to the system. A cooling tower may be the solution to off-load the peak demand of the new building addition as an example. Other additions may include a requirement for fresh-air ventilation. A fresh-air, air handler, along with a water to water unit may be introduced to the closed loop system to allow tempered fresh-air into the building.

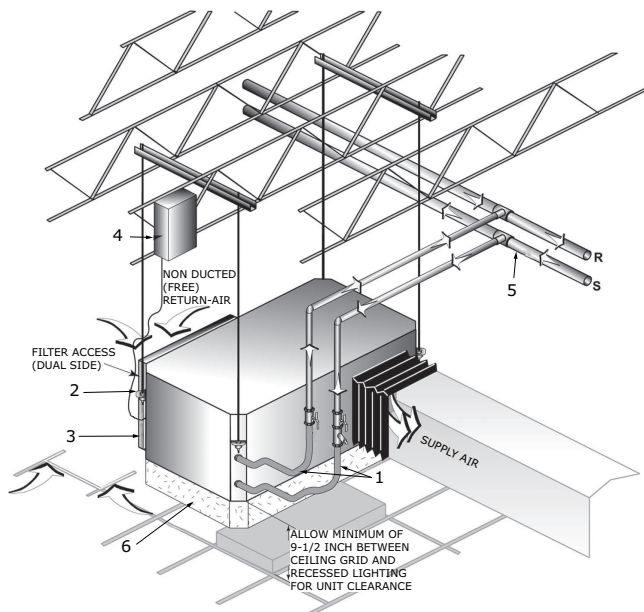
The buildings heating and cooling needs are not based off of one type of component, but perform harmonious of each other. Heat recovery from the loop itself can be shared with the other major components.

Hybrid systems can often make the system more economical, opening up the possibility to reap the potential energy savings.

**Figure 6. Hybrid system**



**Figure 7. Central pumping system**



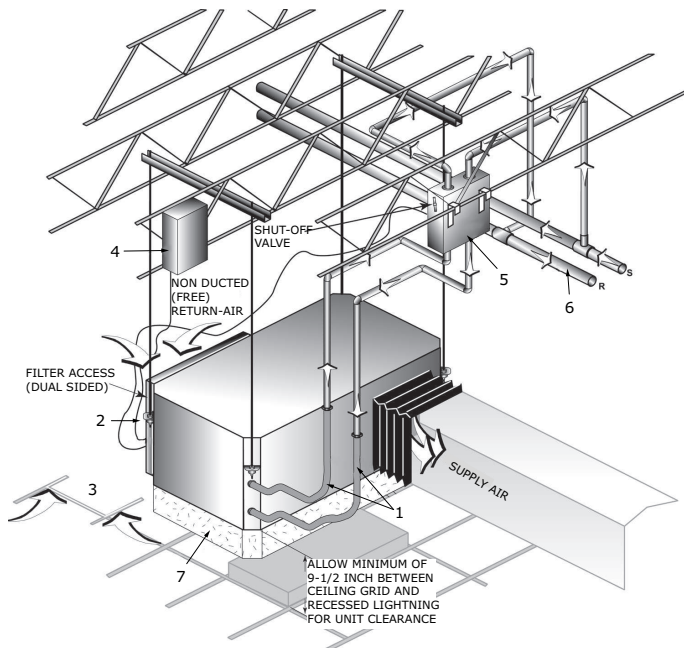
Units that employ a central pumping system contain single or dual pumps to fulfill pumping requirements for the entire building system. The central system's supply and return lines should be sized to handle the required flow with a minimum pressure drop. The water-source heat pump (GEH) may include add-on accessories to help aid in system balancing, acoustics and safety requirements. Some of these items may be ordered from the factory, then field installed. Many are provided by the contractor.

- Hose kits (item 1) are used to connect the water supply and return line to the water inlets and outlets. Trane offers various hose kit combinations to better facilitate system flow balancing. These flexible hoses also aid in the reduction of vibration between the unit and the rigid central piping system.
- A two position isolation valve is often applied to systems which incorporate variable frequency pumping. This valve is capable of stopping/starting water flow to the unit, which in-turn reduces the pumping requirements for the entire system.
- The unit's (item 2) 3/4-inch high voltage and (item 3) 0.5-inch low voltage connections are located on the left corner of the unit. They are designed to accept conduit.
- A field supplied line voltage disconnect (item 4) should be installed for branch circuit protection. Check local codes for requirements.
- The central system supply and return lines (item 5) should be sized to handle the required flow with a minimum pressure drop.

**Note:** Pipe will sweat if low temperature water is below the dew point of the surrounding space. Trane recommends that these lines be insulated to prevent damage from condensation when condenser loop is designed to be below 60°F. Equipment installed in attic/crawl space temperatures below 40°F may require antifreeze in the water loop.

- For acoustically sensitive areas, a six-inch deep fiberglass insulation (item 6) is recommended to be field installed below the horizontal unit. This field supplied insulation should be approximately twice the footprint size of the unit. It provides sound damping of the unit while in operation.

**Figure 8. Distributed pumping system**



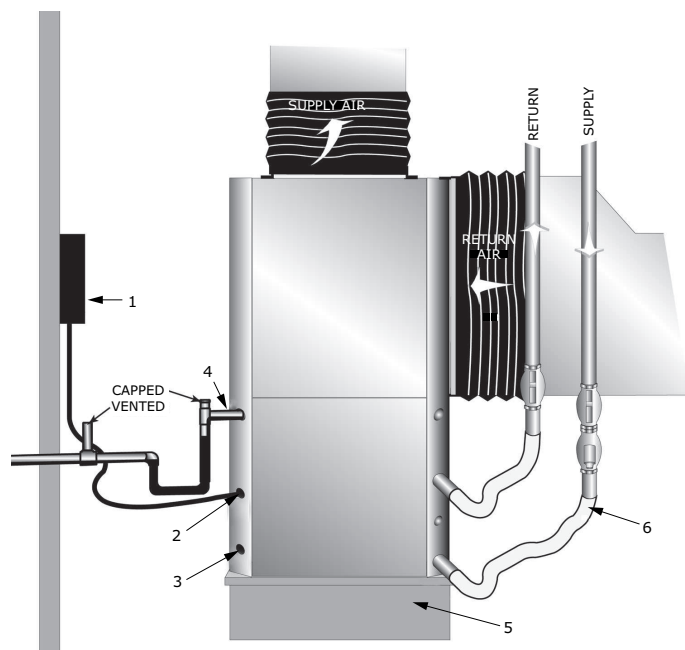
A distributed pumping system contains either a single or dual pump module, specifically sized for each water-source heat pump, then connected directly to the units supply and return lines. The distributed system's supply and return lines should be sized to handle the required flow with a minimum pressure drop.

- Hose kits (item 1) are used to connect the water supply and return line to the water inlets and outlets. Trane offers various hose kit combinations to better facilitate system flow balancing. These flexible hoses also aid in the reduction of vibration between the unit and the rigid central piping system.
- The unit's (item 2) 3/4-inch high voltage and (item 3) 0.5-inch low voltage connections are located on the left corner of the unit. They are designed to accept conduit.
- A field supplied line voltage disconnect (item 4) should be installed for branch circuit protection. Check local codes for requirements.
- A field provided pump module (item 5) and hose kit make a complete pumping package for distributed pumping systems. The module is designed for circulating commercial loops that require a maximum flow rate of 20 gpm.
- The distributed pumping system supply and return lines (item 6) should be sized to handle the required flow with a minimum pressure drop.

**Note:** Pipe will sweat if low temperature water is below the dew point of the surrounding space. Trane recommends that these lines be insulated to prevent damage from condensation when condenser loop is designed to be below 60°F. Equipment installed in attic/crawl space temperatures below 40°F may require antifreeze in the water loop.

- For acoustically sensitive areas, a six-inch deep fiberglass insulation (item 7) is recommended to be field installed below the horizontal unit. This field supplied insulation should be approximately twice the footprint size of the unit. It provides sound damping of the unit while in operation.

**Figure 9. Installation of the 0.5 to 5 tons vertical**



Whether securing the 0.5 to 5 tons vertical models to a central pumping system or a distributed pumping system, Trane recommends a few accessory considerations to the system installation.

- The field supplied line voltage disconnect (1) should be installed for branch circuit protection.
- The units (2) 3/4-inch high voltage and (3) 0.5-inch low voltage connections are located on the left corner of the unit. They are designed to accept conduit.
- Trane recommends that the condensate system (4) be set-up per negative pressure trapping in consideration of the unit's draw-through design. With this properly trapped system, when condensate forms during normal operation, the water level in the trap rises until there is a constant outflow. See the Axiom™ Installation and Operations manual for negative pressure trapping guidelines.

**Note:** Condensate connection for 0.5 to 5T vertical models is on the right-hand side of the unit.

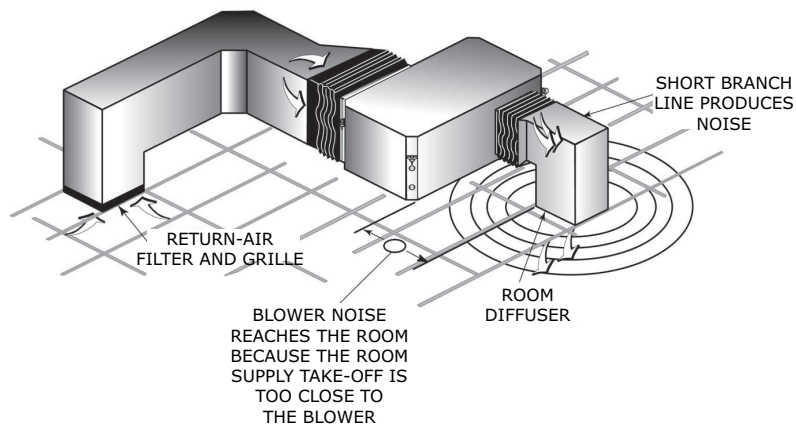
- For acoustically sensitive areas, a 0.5-inch thick field provided vibration pad (5) should be installed below the vertical unit. This field provided piece should be equal to the overall foot-print size of the unit to provide sound damping of the unit while in operation.
- Hose kits (6) are used to connect the water supply and return lines to the water inlet and outlets. Trane includes various hose kit combinations to better facilitate system flow balancing. These flexible hoses, reduce vibration between the unit and the rigid piping system.

## Duct Design for Noise Control

Proper acoustics are often a design requirement. Most of the problems that are associated with HVAC generated sound can be avoided by properly selecting and locating the components of the system. Acoustical modeling should be used to find the lowest cost design to meet a specific sound requirement, however, there are some general do's and don'ts that should be observed.

### Improper Supply Air-Ducting (0.5 to 5 Tons)

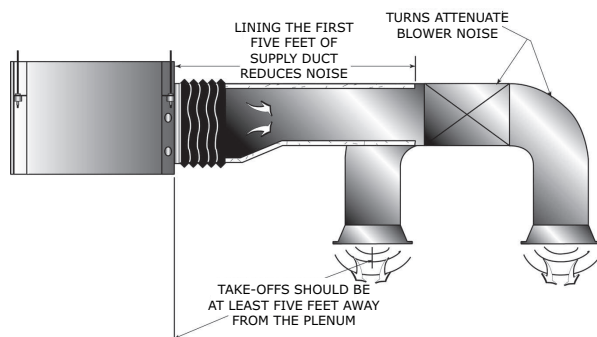
The figure below shows a supply air duct that is placed too close to the blower to provide substantial noise attenuation. It also, represents the effects on sound that a short supply branch connected to the discharge may produce. Avoid these forms of connections when designing ductwork where noise attenuation is critical.



The following suggestions will reduce the amount of sound that reaches the occupied space:

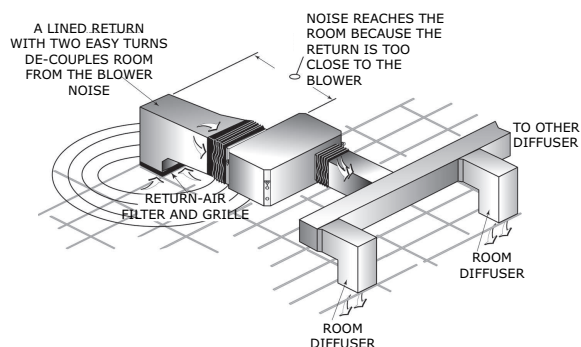
- Design the duct run with two 90° turns
- Line the first 5 feet of the supply trunk
- Line elbows and transition pieces, as well as a short distance upstream and downstream of the fittings
- Use flexible connections to isolate vibrations
- Provide multiple discharges
- Keep duct velocity low

**Figure 10. Desired supply air ducting**



See [Figure 10, p. 26](#) for a positive representation of supply duct work design for noise attenuation on units over 1.5 tons.

**Figure 11. Improper return-air ducting**



Sound control applies to the return side of the duct design as well as the supply side. [Figure 11, p. 26](#) demonstrates a poor installation. Note that the return air opening is close to the cabinet of the unit.

**Figure 12. Proper return-air ducting**

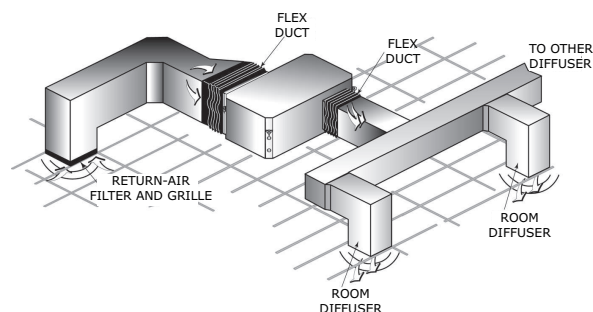


Figure 12, p. 27 graphic represents proper installation of return-air duct. This includes:

- Two 90° bends prior to the intake
- Lining the first 10 feet of the return air duct
- Locating the return-air intake away from the unit blower

A duct system design that takes noise control into account:

- Keeps air flow velocities low
- Uses aerodynamic fittings
- Uses a duct liner if metal duct is applied
- Avoids line-of-sight connections between a noise source and an outlet
- Avoids line-of-sight connection between a noise source and an inlet
- Properly locates balancing dampers
- Seals cracks, seams, and joints in the duct run and equipment panels
- Blocks transmission through walls, ceiling and floors
- Mounts and supports the ductwork with isolation devices that absorb vibration
- Uses flexible duct connections
- Uses flexible braided hoses on the water connections

## Water Flow Control

Trane's Axiom product line features thermal expansion valves on every unit. The operating range for the TXV is between 45°F and 120°F for cooling and between 25°F and 86°F for heating. On systems that expect low water temperatures, a waterside economizer can be employed to eliminate the need to operate the compressors and take full advantage of free cooling. Water regulating valves are not recommended.

A two-position isolation valve is recommended for use with the Axiom WSHP unit on systems utilizing variable water flow. The two-position isolation valve allows full water flow through the unit when the compressor is in operation. When the compressor is off, the valve closes and shuts off water flow to the unit allowing the system pumps to unload and operate more efficiently. Isolation valves are typically provided as part of the hose kit and connect to the unit terminal strip. A variety of manual and automatic flow control kits including hoses are available as accessories for balancing a water source heat pump system. For a complete product listing, see *Hose Kit Accessories Automatic and Manual Balancing - Product Catalog* (WSHP-PRC025\*-EN).

## A2L Application Considerations

This product is listed to UL standard 60335-2-40, Household and Similar Electrical Appliances – Safety – Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers, which defines safe design and use strategies for equipment using A2L refrigerants. This standard limits the refrigerant concentration in a space in the event of a refrigerant leak. To meet the requirements, the UL standard defines minimum room area, refrigerant charge limit, minimum circulation airflow and/or ventilation airflow requirements, and limits the use of ignition sources in spaces. The standard may require a unit refrigerant leak detection system.

For equipment with R-454B and charge amounts less than or equal to 3.91 lbs per circuit, this UL standard does not prescribe a room area limit and does not require a refrigerant leak detection system or any circulation airflow or ventilation airflow mitigation strategies. However, ignition sources in ductwork must be evaluated.

Depending on the application, a specific requirement of ANSI/ASHRAE Standard 15, Safety Standard for Refrigeration Systems, could be more stringent than UL 60335-2-40 requirements. See *Refrigeration Systems and Machinery Rooms Application Considerations for Compliance with ASHRAE® Standard 15-2022 Application Engineering Manual* (APP-APM001\*-EN) for more information.



### Minimum Room Area Limits (Refrigerant charge greater than 3.91 lb per circuit)

Equipment with R-454B charge amounts greater than 3.91 lb per circuit may require additional circulation or ventilation airflow mitigation strategies. In this case, two minimum room area ( $A_{min}$ ) thresholds:

- The first threshold defines when equipment serving a single room is required to provide circulation airflow, either continuous or activated by a leak detection system. A ducted system requires circulation airflow unless the smallest room it serves is larger than the adjusted  $A_{min}$  threshold. This product contains a leak detection system if a circuit charge is greater than 3.91 lbs. As a result, no further leak detection system evaluation is required.
- The second threshold defines when additional ventilation airflow is required. If the room area, A or TA, is below the adjusted  $A_{min}$  or  $TA_{min}$  threshold, additional ventilation is required to remove refrigerant in the event of a leak. Refer to UL 60335-2-40 Clause GG.8 and ANSI/ASHRAE Standard 15 Section 7 for natural and mechanical ventilation requirements. For minimum room area, see equipment nameplate or unit Installation, Operation, and Maintenance (IOM) manual.

### Minimum Room Area ( $A_{min}$ ) Adjustments

- Altitude:** The  $A_{min}$  threshold changes with altitude. Multiple the altitude adjustment factor in the following table by  $A_{min}$  shown on the unit nameplate or in the Installation, Operation, and Maintenance (IOM) manual.

**Table 5. Altitude adjustment factor**

| Altitude (ft)        | Sea Level to 2000 | 2001 to 4000 | 4001 to 6000 | 6001 to 8000 | 8001 to 10000 | 10001 to 12000 | 12001 to 14000 | 14001 to 15000 | Over 15000 |
|----------------------|-------------------|--------------|--------------|--------------|---------------|----------------|----------------|----------------|------------|
| $A_{min}$ Adjustment | 1                 | 1.05         | 1.11         | 1.17         | 1.24          | 1.32           | 1.41           | 1.51           | 1.57       |

- Height :**  $A_{min}$  can be adjusted if the unit is installed in a room at a height higher than the minimum height shown on the unit. Multiply  $A_{min}$  by the ratio of the unit minimum release height (in meters) / actual release height (in meters).
- Institutional Occupancies:** For institutional occupancies, ASHRAE Standard 15 applies an additional adjustment factor, FOCC, to the amount of charge allowed in a space. To calculate the adjusted  $A_{min}$  for institutional occupancies, divide the  $A_{min}$  on the nameplate by 0.5.

### Determining Room Area (A or TA)

The room area (A) is the room area enclosed by the projection to the floor of the walls, partitions, and doors of the space that the equipment serves. For ducted systems, total room area (TA) of all rooms connected by ducts, may be used instead of A.

Rooms connected by drop ceilings only are not considered a single room.

Rooms on the same floor of the building, and connected by an open passageway, can be considered part of the same room if the passageway is a permanent opening, extends to the floor and is intended for people to walk through.

Adjacent rooms on the same floor of the building and connected by permanent openings in the walls and/or doors between rooms (including gaps between the wall and the floor), can be considered part of the same room if the openings meet the following criteria.

- The opening is permanent and cannot be closed.
- Openings extending to the floor, such as door gaps, need to be at least 20 mm above the floor covering surface.
- Natural ventilations opening areas must meet the requirements of ANSI/ASHRAE Standard 15-2022, Section 7.2.3.2.

Rooms that are connected by a mechanical ventilation system can be considered a single room area if the mechanical ventilation system meets the requirements of ANSI/ASHRAE Standard 15-2022, Section 7.6.4.

### Leak Detection System (Refrigerant charge greater than 3.91 lb per circuit)

The leak detection system consists of one or more refrigerant detection sensors. When the system detects a leak, the following mitigation actions will be initiated until refrigerant has not been detected for at least 5 minutes:

- Energize the supply fan(s) to deliver a required minimum amount of circulation airflow.
- Disable compressor operation.
- Provide an output signal that can be used to fully open zone dampers and/or VAV boxes and disable electric heat in VAV boxes.



- Provide an output signal that can be used to energize additional mechanical ventilation (if needed).
- Units without airflow proving will disable electric heat sources.

Building fire and smoke systems may override this function.

If the refrigerant sensor has a fault, is at the end of its life, or is disconnected, the unit will initiate the mitigation actions. Mitigation actions may be verified by disconnecting the sensor.

The refrigerant sensors do not need service. Use only manufacturer-approved sensors when replacement is required.



# Model Number Description

## GEV/GEH 072–300 Models

### Digits 1–3 — Unit Configuration

**GEH** = Standard Efficiency Horizontal 6 to 15 Tons  
**GEV** = Standard Efficiency Vertical 6 to 25 Tons

### Digit 4 — Development Sequence

**K** = R-454B

### Digits 5–7 — Nominal Capacity

**072** = 6 Tons  
**090** = 7.5 Tons  
**120** = 10 Tons  
**150** = 12.5 Tons  
**180** = 15 Tons  
**240** = 20 Tons  
**300** = 25 Tons

### Digit 8 — Voltage (Volts/Hz/Phase)

**1** = 208/60/1  
**2** = 230/60/1  
**3** = 208/60/3  
**4** = 460/60/3  
**5** = 575/60/3  
**8** = 230/60/3  
**9** = 380–415/50/3

### Digit 9 — Heat Exchanger

**1** = Copper-Water Coil  
**2** = Cupro-Nickel Water Coil  
**7** = Insulated Copper-Water Coil  
**8** = Insulated Cupro-Nickel Water Coil

### Digit 10 — Current Design Sequence

### Digit 11 — Refrigeration Circuit

**0** = Heating and Cooling Circuit  
**2** = Heating and Cooling Circuit with Hot Gas Reheat  
**3** = Heating and Cooling Circuit with Waterside Economizer  
**4** = Heating and Cooling Circuit with HGR and WSE

### Digit 12 — Blower Configuration

**A** = Drive Package A  
**B** = Drive Package B  
**C** = Drive Package C  
**D** = Drive Package D  
**E** = Drive Package E  
**F** = Drive Package F  
**G** = Drive Package G  
**H** = Drive Package H  
**J** = Drive Package J  
**1** = 2 Speed Drive Package A  
**2** = 2 Speed Drive Package B  
**3** = 2 Speed Drive Package C  
**4** = 2 Speed Drive Package D  
**5** = 2 Speed Drive Package E  
**6** = 2 Speed Drive Package F  
**7** = 2 Speed Drive Package G  
**8** = 2 Speed Drive Package H  
**9** = 2 Speed Drive Package J

### Digit 13 — Freeze Protection

**A** = 20°F Freezestat (For Glycol loop)  
**B** = 35°F Freezestat (For Water loop)

### Digit 14 — Open Digit = 0

### Digit 15 — Supply-Air Arrangement

**B** = Back Supply-Air Arrangement  
**F** = Front Supply-Air Arrangement  
**L** = Left Supply-Air Arrangement  
**R** = Right Supply-Air Arrangement  
**T** = Top Supply-Air Arrangement

### Digit 16 — Return-Air Arrangement

**B** = Back Return-Air Arrangement  
**F** = Front Return-Air Arrangement  
**L** = Left Return-Air Arrangement  
**R** = Right Return-Air Arrangement

### Digit 17 — Control Types

**D** = Deluxe 24V Controls  
**F** = Symbio™ 500  
**G** = Symbio 500/with Air-Fi® Wireless

### Digit 18 — Tstat/Sensor Location

**0** = Wall Mounted Location

### Digit 19 — Fault Sensors

**1** = Condensate Overflow Sensor  
**3** = Condensate Overflow and Filter Maintenance Timer  
**6** = Condensate Overflow and Fan Status  
**J** = Fan Status, Filter Maintenance Timer and Condensate Overflow Sensor

### Digit 20 — Temperature Sensor

**0** = No Temperature Sensor  
**1** = Entering Water Sensor

### Digit 21 — Insulation

**1** = Standard Fiberglass Insulation

### Digit 22 — Electric Heat

**0** = No Electric Heat  
**4** = External Boilerless Electric Heat  
**5** = External Supplemental Electric Heat

### Digit 23 — ON/OFF Switch

**0** = No ON/OFF Switch

### Digit 24 — Filter Type

**1** = 1-inch Throwaway Filter  
**2** = 2-inch Throwaway Filter  
**4** = 2-inch MERV 8  
**5** = 2-inch MERV 13

### Digit 25 — Acoustic Arrangement

**0** = Enhanced Sound Attenuation

### Digits 26–34 — Does Not Apply to GEH or GEV

**0000000000** = Digits 26–36 are not applicable to the GEH or GEV products

### Digits 35 — Unit Drain Pan Option

**A** = Polymer Drain Pan  
**B** = Stainless Steel Drain Pan

### Model Number Notes

**Note:** 20°F Freezestat is typically used in a geothermal application. 35°F Freezestat is typically used in a boiler/tower application.

## GEV/GEH 006–060 Models

### Digits 1–3 — Unit Configuration

**GEH** = Standard Efficiency Horizontal  
**GEV** = Standard Efficiency Vertical

### Digit 4 — Development Sequence

**K** = R-454B

### Digits 5–7 — Nominal Size (MBh)

**006** = 6.0 MBh  
**009** = 9.0 MBh  
**012** = 12.0 MBh  
**015** = 15.0 MBh  
**018** = 18.0 MBh  
**024** = 24.0 MBh  
**030** = 30.0 MBh  
**036** = 36.0 MBh  
**042** = 42.0 MBh  
**048** = 48.0 MBh  
**060** = 60.0 MBh

### Digit 8 — Voltage (Volts/Hz/Phase)

**4** = 460/60/3  
**7** = 265/60/1  
**A** = 208-230/60/1  
**B** = 208-230/60/3

### Digit 9 — Heat Exchanger

**1** = Copper-Water Coil  
**2** = Cupro-Nickel Water Coil  
**7** = Insulated Copper-Water Coil/Suction Line  
**8** = Insulated Cupro-Nickel Water Coil/Suction Line

### Digit 10 — Design Sequence

**A** First Design Sequence

### Digit 11 — Refrigeration Circuit

**0** = Heating and Cooling Circuit  
**2** = Heating and Cooling Circuit with Hot Gas Reheat  
**3** = Heating and Cooling Circuit with Waterside Economizer  
**4** = Heating and Cooling Circuit with Waterside Economizer, Hot Gas Reheat

### Digit 12 — Blower Configuration

**K** = Variable ECM Motor, Constant Torque

### Digit 13 — Freeze Protection

**A** = 20°F Freezestat (For Glycol loop)  
**B** = 35°F Freezestat (For Water loop)

### Digit 14 — Open Digit = 0

### Digit 15 — Supply-Air Arrangement

**T** = Top Supply-Air Arrangement  
**B** = Back Supply-Air Arrangement  
**L** = Left Supply-Air Arrangement  
**R** = Right Supply-Air Arrangement

### Digit 16 — Return-Air Arrangement

**L** = Left Return-Air Arrangement  
**R** = Right Return-Air Arrangement

### Digit 17 — Control Types

**D** = Deluxe 24V Controls  
**H** = Symbio 400-B  
**J** = Symbio 400-B/with Air-Fi® Wireless Communications

### Digit 18 — Tstat/Sensor Location

**0** = Wall Mounted Location

### Digit 19 — Fault Sensors

**1** = Condensate Overflow Sensor  
**3** = Condensate Overflow and Filter Maintenance Timer  
**6** = Condensate Overflow and Fan Status  
**J** = Fan Status, Filter Maintenance Timer and Condensate Overflow Sensor

### Digit 20 — Temperature Sensor

**0** = No Additional Temperature Sensor  
**1** = Entering Water Sensor

### Digit 21 — Insulation

**1** = Matte Faced Insulation  
**2** = Foil Faced Insulation

### Digit 22 — Electric Heat Option

**0** = No Electric Heat  
**6** = Field Mounted External Boilerless LOW Electric Heat  
**7** = Field Mounted External Boilerless MED Electric Heat  
**8** = Field Mounted External Boilerless HIGH Electric Heat  
**9** = Boilerless Electric Heat Ready

### Digit 23 — Unit Mounted Disconnect

**0** = No Unit Mounted Disconnect  
**2** = Unit Mounted Disconnect

### Digit 24 — Filter Type

**1** = 1-inch Throwaway Filter  
**2** = 2-inch Throwaway Filter  
**4** = 2-inch MERV 8  
**5** = 2-inch MERV 13

### Digit 25 — Acoustic Arrangement

**1** = Standard Sound Attenuation  
**2** = Deluxe Sound Attenuation

### Digits 26–36 — Does Not Apply

**0000000000** = Digits 26-36 are not applicable to the GEH or GEV products

### Digit 37 — Ducted Filter Rack

**0** = Non-ducted Filter Rack  
**A** = Ducted Filter Rack (Side Access/LH—RH)  
**C** = Ducted Filter Rack (Bottom Access)

### Digit 38 — Isolation Valve

**0** = No Isolation Valve  
**1** = Factory Mounted Isolation Valve

### Digit 39 — Power Connection

**1** = Single Point  
**2** = Electric Heat Power Separate from Unit

### Digit 40 — Drain Pan

**A** = Polymer Drain Pan  
**B** = Stainless Steel Drain Pan

### Model Number Note:

**Note:** 20°F Freezestat is typically used in a geothermal application. 35°F Freezestat is typically used in a boiler/tower application.



# General Data

**Table 6. Models GEHK006-024 (0.5 to 2 tons)**

| Model GEH                              | 006             | 009             | 012             | 015               | 018               | 024               |
|----------------------------------------|-----------------|-----------------|-----------------|-------------------|-------------------|-------------------|
| Unit Size Depth x L x H (in.)          | 23 x 41 x 15.75 | 23 x 41 x 15.75 | 23 x 41 x 15.75 | 25.5 x 46 x 17.75 | 25.5 x 46 x 17.75 | 25.5 x 49 x 18.75 |
| Compressor Type                        | Rotary          | Rotary          | Rotary          | Rotary            | Rotary            | Scroll            |
| Net Weight (lbs.)                      | 165             | 165             | 165             | 173               | 173               | 269               |
| Ship Weight (lbs.)                     | 255             | 255             | 255             | 297               | 297               | 393               |
| Filter Size Nominal (in.)              | 14 X 16         | 14 X 16         | 14 X 16         | 16 X 19           | 16 X 19           | 17 X 20           |
| Water in/out size (FPT)                | 0.5             | 0.5             | 0.5             | 0.5               | 0.5               | 0.75              |
| Condensate size (NPTI)                 | 0.75            | 0.75            | 0.75            | 0.75              | 0.75              | 0.75              |
| Blower Wheel Size (in.) - Direct Drive | 9 x 6           | 9 x 6           | 9 x 6           | 9 x 8             | 9 x 8             | 10 x 8            |

**Table 7. Models GEHK030-060 (2.5 to 5 tons)**

| Model GEH                              | 030               | 036               | 042               | 048             | 060             |
|----------------------------------------|-------------------|-------------------|-------------------|-----------------|-----------------|
| Unit Size Depth x L x H (in.)          | 25.5 x 49 x 18.75 | 25.5 x 55 x 19.75 | 25.5 x 55 x 19.75 | 28 x 68 x 21.75 | 28 x 68 x 21.75 |
| Compressor Type                        | Scroll            | Scroll            | Scroll            | Scroll          | Scroll          |
| Net Weight (lbs.)                      | 271               | 340               | 318               | 384             | 394             |
| Ship Weight (lbs.)                     | 395               | 464               | 442               | 529             | 539             |
| Filter Size Nominal (in.)              | 17 X 20           | 18 X 23           | 18 X 23           | 20 X 30         | 20 X 30         |
| Water in/out size (FPT)                | 0.75              | 0.75              | 0.75              | 1               | 1               |
| Condensate size (NPTI)                 | 0.75              | 0.75              | 0.75              | 0.75            | 0.75            |
| Blower Wheel Size (in.) - Direct Drive | 10 x 8            | 10 x 9            | 10 x 9            | 11 x 11         | 11 x 11         |

**Table 8. Models GEHK072-180 (6 to 15 tons)**

| Model GEH                              | 072          | 090          | 120          | 150          | 180          |
|----------------------------------------|--------------|--------------|--------------|--------------|--------------|
| Unit Size Depth x L x H (in.)          | 41 x 79 X 21 | 41 x 79 x 21 | 41 x 79 x 21 | 47 x 85 x 28 | 47 x 85 x 28 |
| Compressor Type                        | Scroll (2)   | Scroll (2)   | Scroll (2)   | Scroll (2)   | Scroll (2)   |
| Net Weight (lbs.)                      | 671          | 382          | 787          | 859          | 965          |
| Ship Weight (lbs.)                     | 720          | 730          | 829          | 901          | 1007         |
| Filter Size Nominal (in.)              | 20 x 25 (3)  | 20 x 25 (3)  | 20 x 25 (3)  | 20 x 25 (3)  | 20 x 25 (3)  |
| Water in/out size (FPT)                | 1.25         | 1.25         | 1.50         | 1.50         | 1.50         |
| Condensate size (NPTI)                 | 0.50         | 0.50         | 0.50         | 0.50         | 0.50         |
| Blower Wheel Size (in.) - Direct Drive | 13 x 13      | 13 x 13      | 13 x 13      | 15 x 15      | 15 x 15      |

**Table 9. Models GEVK006-024 (0.5 to 2 tons)**

| Model GEVK                             | 006          | 009          | 012          | 015              | 018              | 024            |
|----------------------------------------|--------------|--------------|--------------|------------------|------------------|----------------|
| Unit Size width x depth x height (in.) | 19 x 19 x 30 | 19 x 19 x 30 | 19 x 19 x 30 | 21.5 x 21.5 x 34 | 21.5 x 21.5 x 34 | 21.5 x 23 x 36 |
| Compressor type                        | Rotary       | Rotary       | Rotary       | Rotary           | Rotary           | Scroll         |
| Net weight (lbs.)                      | 149          | 149          | 149          | 155              | 157              | 210            |
| Ship weight (lbs.)                     | 201          | 201          | 201          | 210              | 212              | 268            |
| Filter size nominal (in.)              | 14 X 16      | 14 X 16      | 14 X 16      | 16 X 19          | 16 X 19          | 17 X 20        |
| Water in/out size (FPT)                | 0.5          | 0.5          | 0.5          | 0.5              | 0.5              | 0.75           |

**Table 9. Models GEVK006-024 (0.5 to 2 tons) (continued)**

| Model GEVK              | 006   | 009   | 012   | 015   | 018   | 024    |
|-------------------------|-------|-------|-------|-------|-------|--------|
| Condensate size (NPTI)  | 0.75  | 0.75  | 0.75  | 0.75  | 0.75  | 0.75   |
| Blower wheel Size (in.) | 9 x 6 | 9 x 6 | 9 x 6 | 9 x 8 | 9 x 8 | 10 x 8 |

**Table 10. Models GEVK030-060 (2.5 to 5 tons)**

| Model GEVK                             | 030            | 036            | 042            | 048            | 060            |
|----------------------------------------|----------------|----------------|----------------|----------------|----------------|
| Unit Size width x depth x height (in.) | 21.5 x 23 x 36 | 21.5 x 26 x 38 | 21.5 x 26 x 38 | 24 x 32.5 x 42 | 24 x 32.5 x 42 |
| Compressor type                        | Scroll         | Scroll         | Scroll         | Scroll         | Scroll         |
| Net weight (lbs.)                      | 216            | 247            | 257            | 283            | 285            |
| Ship weight (lbs.)                     | 274            | 307            | 317            | 346            | 348            |
| Filter size nominal (in.)              | 17 X 20        | 18 X 23        | 18 X 23        | 20 X 30        | 20 X 30        |
| Water in/out size (FPT)                | 0.75           | 0.75           | 0.75           | 1              | 1              |
| Condensate size (NPTI)                 | 0.75           | 0.75           | 0.75           | 0.75           | 0.75           |
| Blower wheel Size (in.)                | 10 x 8         | 10 x 9         | 10 x 9         | 11 x 11        | 11 x 11        |

**Table 11. Models GEVK072-180 (6 to 15 tons)**

| Model GEV                     | 072          | 090          | 120          | 150                  | 180                  |
|-------------------------------|--------------|--------------|--------------|----------------------|----------------------|
| Unit Size Depth x L x H (in.) | 42 x 36 x 63 | 42 x 36 x 63 | 42 x 36 x 63 | 81-5/8 x 36-1/4 x 68 | 81-5/8 x 36-1/4 x 68 |
| Compressor Type               | Scroll (2)   | Scroll (2)   | Scroll (2)   | Scroll (2)           | Scroll (2)           |
| Net Weight (lbs.)             | 596          | 624          | 819          | 1164                 | 1188                 |
| Ship Weight (lbs.)            | 636          | 664          | 859          | 1209                 | 1233                 |
| Filter Size Nominal (in.)     | 20 x 20 (4)  | 20 x 20 (4)  | 20 x 20 (4)  | 20 x 25 (6)          | 20 x 25 (6)          |
| Water in/out size (FPT)       | 1.25         | 1.25         | 1.50         | 1.50                 | 1.50                 |
| Condensate size (NPTI)        | 0.75         | 0.75         | 0.75         | 0.75                 | 0.75                 |
| Blower Wheel Size (in.)       | 13 x 13      | 13 x 13      | 13 x 13      | 15 x 15              | 15 x 15              |

**Table 12. Models GEVK240-300 (20 to 25 tons)**

| Model GEV                     | 240                  | 300                                       |
|-------------------------------|----------------------|-------------------------------------------|
| Unit Size Depth x L x H (in.) | 81-5/8 x 36-1/4 x 68 | 81-5/8 x 36-1/4 x 68                      |
| Compressor Type               | Scroll (2)           | Scroll (2)                                |
| Net Weight (lbs.)             | 1599                 | 1636                                      |
| Ship Weight (lbs.)            | 1644                 | 1681                                      |
| Filter Size Nominal (in.)     | 20 x 25 (6)          | 20 x 25 (6)                               |
| Water in/out size (FPT)       | 2.00                 | 2.00                                      |
| Condensate size (NPTI)        | 0.75                 | 0.75                                      |
| Blower Wheel Size (in.)       | (2) 13 x 13          | (2) 15 x 11 or (2) 13 x 13 <sup>(a)</sup> |

<sup>(a)</sup> Size is determined by specific drive package ordered.

**Table 13. Models GEV/GEH 006-060 (0.5 to 5 tons) air-to-refrigerant coil**

| Model GEV/GEH               | 006-012          | 015-018          | 024-030          | 036-042          | 048-060          |
|-----------------------------|------------------|------------------|------------------|------------------|------------------|
| Working Pressure (psig)     | 600              | 600              | 600              | 600              | 600              |
| Tubes High                  | 14               | 16               | 17               | 20               | 20               |
| Tubes Deep                  | 3                | 3                | 3                | 3                | 3                |
| No. of Circuits             | 1                | 2                | 3                | 4                | 5                |
| Finned vol. (h,w,d)         | 14 x 14.75 x 2.6 | 16 x 17.25 x 2.6 | 17 x 18.75 x 2.6 | 18 x 21.75 x 2.6 | 20 x 28.25 x 2.6 |
| Coil Surface Area (Sq. Ft.) | 1.43             | 1.92             | 2.21             | 3.02             | 3.92             |



## General Data

**Table 13. Models GEV/GEH 006-060 (0.5 to 5 tons) air-to-refrigerant coil (continued)**

| Model GEV/GEH  | 006-012 | 015-018 | 024-030 | 036-042 | 048-060 |
|----------------|---------|---------|---------|---------|---------|
| Fins per Inch  | 14      | 14      | 14      | 14      | 14      |
| Tube Material  | Copper  | Copper  | Copper  | Copper  | Copper  |
| Tube OD (in.)  | 0.375   | 0.375   | 0.375   | 0.375   | 0.375   |
| Wall Thickness | 0.014   | 0.014   | 0.014   | 0.014   | 0.014   |
| Return Bends   | Copper  | Copper  | Copper  | Copper  | Copper  |

**Table 14. Models GEHK/GEVK 072-300 (6 to 25 tons) dual compressor circuit, air-to-refrigerant coil**

| Unit Size                            | 072                                                                      | 090                                                                      | 120                                                                      | 150                                                                      | 180                                                                      | 240                                 | 300                                 |
|--------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
| Working Pressure                     | 600                                                                      | 600                                                                      | 600                                                                      | 600                                                                      | 600                                                                      | 600                                 | 600                                 |
| Tubes High                           | (GEH) 18.00<br>(GEV) 24.00                                               | (GEH) 18.000<br>(GEV) 28.000                                             | (GEH) 18.00<br>(GEV) 36.00                                               | (GEH) 24.00<br>(GEV) 28.00                                               | (GEH) 24.00<br>(GEV) 32.00                                               | (GEV) 36.00                         | (GEV) 36.00                         |
| Tubes Deep                           | 4.00                                                                     | 4.00                                                                     | 4.00                                                                     | (GEH) 4.00<br>(GEV) 2.00                                                 | (GEH) 4.00<br>(GEV) 3.00                                                 | (GEV) 4.00                          | (GEV) 4.00                          |
| No. of Circuits                      | (GEH) 6 refrig.<br>flow paths (2X)<br>(GEV) 6 refrig.<br>flow paths (2X) | (GEH) 6 refrig.<br>flow paths (2X)<br>(GEV) 7 refrig.<br>flow paths (2X) | (GEH) 9 refrig.<br>flow paths (2X)<br>(GEV) 9 refrig.<br>flow paths (2X) | (GEH) 8 refrig.<br>flow paths (2X)<br>(GEV) 7 refrig.<br>flow paths (2X) | (GEH) 6 refrig.<br>flow paths (2X)<br>(GEV) 8 refrig.<br>flow paths (2X) | (GEV) 18 refrig.<br>flow paths (2X) | (GEV) 18 refrig.<br>flow paths (2X) |
| Finned vol. (h,w,d)                  | (GEH)<br>18 x 48 x 3.5<br>(GEV)<br>24 x 34 x 3.5                         | (GEH)<br>18 x 54 x 3.5<br>(GEV)<br>28 x 34 x 3.5                         | (GEH)<br>18 x 73 x 3.5<br>(GEV)<br>36 x 34 x 3.5                         | (GEH)<br>24 x 73 x 3.5<br>(GEV)<br>28 x 73 x 1.7                         | (GEH)<br>24 x 73 x 3.5<br>(GEV)<br>32 x 73 x 2.6                         | (GEV)<br>36x 73 x 3.5               | (GEV)<br>36x 73 x 3.5               |
| Coil Surface Area (Ft <sup>2</sup> ) | (GEH) 6.00<br>(GEV) 5.67                                                 | (GEH) 6.75<br>(GEV) 6.61                                                 | (GEH) 9.125<br>(GEV) 8.500                                               | (GEH) 12.167<br>(GEV) 14.190                                             | (GEH) 12.167<br>(GEV) 16.220                                             | (GEV) 18.250                        | (GEV) 18.250                        |
| Fins Per Inch                        | 14.00                                                                    | 14.000                                                                   | 14.000                                                                   | 14.00                                                                    | 14.00                                                                    | 14.00                               | 14.00                               |
| Tube Material                        | Copper                                                                   | Copper                                                                   | Copper                                                                   | Copper                                                                   | Copper                                                                   | Copper                              | Copper                              |
| Tube OD (in.)                        | 0.375                                                                    | 0.375                                                                    | 0.375                                                                    | 0.375                                                                    | 0.375                                                                    | 0.375                               | 0.375                               |
| Wall Thickness                       | 0.014                                                                    | 0.014                                                                    | 0.014                                                                    | 0.014                                                                    | 0.014                                                                    | 0.014                               | 0.014                               |
| Return Bends                         | Copper                                                                   | Copper                                                                   | Copper                                                                   | Copper                                                                   | Copper                                                                   | Copper                              | Copper                              |

**Table 15. Models GEVK/GEHK 006-060 (0.5 to 5 tons) water-to-refrigerant coil**

| Model GEVK/GEHK                     | 006 | 009 | 012 | 015 | 018 | 024 | 030 | 036 | 042 | 048 | 060 |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Refrigerant Working Pressure (psig) | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| Water Working Pressure              | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 |

**Table 16. Models GEHK072-180 (6 to 15 tons) water-to-refrigerant coil**

| Model                               | 072 | 090 | 120 | 150 | 180 |
|-------------------------------------|-----|-----|-----|-----|-----|
| Refrigerant Working Pressure (psig) | 600 | 600 | 600 | 600 | 600 |
| Water Working Pressure              | 400 | 400 | 400 | 400 | 400 |

**Table 17. Models GEVK072-300 (6 to 25 tons) water-to-refrigerant coil**

| Model                               | 072 | 090 | 120 | 150 | 180 | 240 | 300 |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Refrigerant Working Pressure (psig) | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| Water Working Pressure              | 400 | 400 | 400 | 400 | 400 | 400 | 400 |



# Performance Data

**Table 18. ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance - (0.5 to 25 tons)**

| Model    | Rated GPM | Rated CFM | Water Loop Heat Pump |       |               |      | Ground Water Heat Pump |       |               |      | Ground Loop Heat Pump |       |                |      |
|----------|-----------|-----------|----------------------|-------|---------------|------|------------------------|-------|---------------|------|-----------------------|-------|----------------|------|
|          |           |           | Cooling 86°F         |       | Heating 68°F  |      | Cooling 59°F           |       | Heating 50°F  |      | Full Cool 77°F        |       | Full Heat 32°F |      |
|          |           |           | Capacity Btuh        | EER   | Capacity Btuh | COP  | Capacity Btuh          | EER   | Capacity Btuh | COP  | Capacity Btuh         | EER   | Capacity Btuh  | COP  |
| GEH/V006 | 1.50      | 190       | 7600                 | 14.3  | 9800          | 4.60 | 8500                   | 22.20 | 7700          | 4.00 | 7900                  | 16.80 | 6000           | 3.40 |
| GEH/V009 | 2.25      | 285       | 8400                 | 16.8  | 10500         | 5.80 | 9400                   | 25.60 | 8600          | 4.90 | 8800                  | 19.60 | 6400           | 4.00 |
| GEH/V012 | 3.00      | 380       | 11000                | 15.2  | 14400         | 5.30 | 11900                  | 22.30 | 11500         | 4.40 | 11300                 | 17.70 | 8400           | 3.50 |
| GEH/V015 | 3.75      | 475       | 15300                | 15.60 | 20400         | 5.40 | 16800                  | 24.10 | 16700         | 4.70 | 15900                 | 18.20 | 12500          | 3.90 |
| GEH/V018 | 4.50      | 570       | 17900                | 15.10 | 24200         | 5.10 | 19600                  | 23.40 | 19500         | 4.50 | 18500                 | 17.30 | 15300          | 3.80 |
| GEH/V024 | 6.00      | 760       | 24300                | 16    | 31100         | 5.10 | 27000                  | 25.50 | 26000         | 4.50 | 25400                 | 18.90 | 19700          | 3.60 |
| GEH/V030 | 7.50      | 950       | 29200                | 15.8  | 36800         | 4.90 | 31700                  | 23.90 | 29800         | 4.30 | 30000                 | 18.20 | 23700          | 3.70 |
| GEH/V036 | 9.00      | 1140      | 39500                | 15    | 47400         | 4.70 | 42500                  | 22.10 | 39700         | 4.20 | 40600                 | 17.30 | 30100          | 3.40 |
| GEH/V042 | 10.5      | 1330      | 44000                | 16.4  | 56400         | 4.70 | 47100                  | 24.50 | 46200         | 4.10 | 45200                 | 18.90 | 35800          | 3.40 |
| GEH/V048 | 12.0      | 1520      | 48900                | 15.9  | 62300         | 4.90 | 54500                  | 24.00 | 50800         | 4.30 | 50900                 | 18.40 | 38900          | 3.60 |
| GEH/V060 | 15.0      | 1900      | 57700                | 15.7  | 77100         | 4.70 | 64300                  | 23.90 | 63700         | 4.20 | 60100                 | 18.30 | 50200          | 3.70 |
| GEHK072  | 18.0      | 2100      | 75000                | 14.8  | 82400         | 4.50 | 83000                  | 22.00 | 70700         | 4.10 | 77200                 | 16.9  | 58700          | 3.40 |
| GEHK090  | 22.5      | 2625      | 88200                | 13.9  | 106200        | 4.60 | 97600                  | 20.60 | 90700         | 4.10 | 90500                 | 15.7  | 73000          | 3.40 |
| GEHK120  | 30.0      | 3500      | 121900               | 14.3  | 144800        | 4.80 | 134700                 | 20.80 | 124800        | 4.20 | 125000                | 15.9  | 98500          | 3.40 |
| GEHK150  | 37.5      | 4375      | 158600               | 15.3  | 191800        | 4.80 | 174800                 | 24.10 | 158500        | 4.30 | 164100                | 17.7  | 126200         | 3.50 |
| GEHK180  | 45.0      | 5250      | 188900               | 13.8  | 227000        | 4.50 | 208600                 | 20.20 | 190600        | 4.00 | 197200                | 15.8  | 152900         | 3.30 |
| GEVK072  | 18.0      | 2100      | 77100                | 16.5  | 79900         | 4.70 | 84100                  | 25.10 | 67800         | 4.20 | 80000                 | 19.2  | 56200          | 3.60 |
| GEVK090  | 22.5      | 2625      | 92000                | 16.3  | 108000        | 4.90 | 101600                 | 25.30 | 88600         | 4.40 | 95600                 | 18.9  | 70700          | 3.70 |
| GEVK120  | 30.0      | 3500      | 125800               | 16.8  | 139900        | 4.90 | 138500                 | 25.00 | 118300        | 4.40 | 130200                | 19.1  | 97100          | 3.70 |
| GEVK150  | 37.5      | 4375      | 158900               | 15.9  | 191400        | 4.90 | 176500                 | 25.40 | 158900        | 4.30 | 164400                | 18.4  | 124600         | 3.60 |
| GEVK180  | 45.0      | 5250      | 192600               | 14.9  | 228600        | 4.50 | 212800                 | 22.80 | 187400        | 4.00 | 198600                | 16.9  | 145100         | 3.20 |
| GEVK240  | 60.0      | 7000      | 258200               | 16.6  | 287000        | 4.90 | 284700                 | 26.80 | 235000        | 4.30 | 266200                | 18.8  | 184300         | 3.50 |
| GEVK300  | 75.0      | 8750      | 319000               | 14.5  | 377100        | 4.50 | 353700                 | 21.40 | 305300        | 3.90 | 329500                | 16.4  | 243200         | 3.20 |

**Notes:**

1. Rated in accordance with ANSI/AHRI/ASHRAE/ISO13256-1. Certified conditions are 80.6F DB/66.2F WB EAT in cooling and 68F DB/59F WB EAT in heating.
2. Models with capacities greater than 135,000 Btuh are not included in the ANSI/AHRI/ASHRAE/ISO13256-1 water-to-air and brine-to-air heat pump certification program.

## Cooling and Heating Capacities 0.5 tons

**Table 19. Cooling capacities 0.5 tons (gross) - GEV/H006**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT  | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|------|-----------|
| 45  | 1.0 | 9.2         | 6.5       | 0.71 | 0.29        | 10.1         | 65.4 | 1.3       |
| 45  | 1.2 | 9.2         | 6.5       | 0.71 | 0.27        | 10.1         | 62.0 | 1.7       |
| 45  | 1.4 | 9.3         | 6.5       | 0.71 | 0.25        | 10.1         | 59.5 | 2.3       |
| 45  | 1.5 | 9.3         | 6.5       | 0.71 | 0.24        | 10.1         | 58.6 | 2.5       |
| 45  | 1.6 | 9.3         | 6.6       | 0.71 | 0.24        | 10.1         | 57.7 | 2.8       |
| 45  | 1.7 | 9.3         | 6.6       | 0.71 | 0.23        | 10.1         | 56.9 | 3.2       |
| 45  | 1.8 | 9.3         | 6.6       | 0.71 | 0.23        | 10.1         | 56.3 | 3.5       |
| 55  | 1.0 | 8.8         | 6.3       | 0.72 | 0.36        | 10.1         | 75.1 | 1.2       |



## Performance Data

Table 19. Cooling capacities 0.5 tons (gross) - GEV/H006 (continued)

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|-------|-----------|
| 55  | 1.2 | 8.9         | 6.4       | 0.71 | 0.34        | 10.1         | 71.8  | 1.7       |
| 55  | 1.4 | 9.0         | 6.4       | 0.71 | 0.33        | 10.1         | 69.4  | 2.2       |
| 55  | 1.5 | 9.0         | 6.4       | 0.71 | 0.32        | 10.1         | 68.5  | 2.4       |
| 55  | 1.6 | 9.0         | 6.4       | 0.71 | 0.32        | 10.1         | 67.6  | 2.7       |
| 55  | 1.7 | 9.0         | 6.4       | 0.71 | 0.31        | 10.1         | 66.9  | 3.0       |
| 55  | 1.8 | 9.0         | 6.4       | 0.71 | 0.31        | 10.1         | 66.2  | 3.4       |
| 68  | 1.0 | 8.3         | 6.1       | 0.73 | 0.43        | 9.8          | 87.5  | 1.1       |
| 68  | 1.2 | 8.4         | 6.1       | 0.73 | 0.41        | 9.8          | 84.3  | 1.5       |
| 68  | 1.4 | 8.5         | 6.1       | 0.73 | 0.40        | 9.9          | 82.0  | 2.0       |
| 68  | 1.5 | 8.5         | 6.2       | 0.72 | 0.40        | 9.9          | 81.1  | 2.2       |
| 68  | 1.6 | 8.5         | 6.2       | 0.72 | 0.40        | 9.9          | 80.3  | 2.5       |
| 68  | 1.7 | 8.5         | 6.2       | 0.72 | 0.39        | 9.9          | 79.6  | 2.8       |
| 68  | 1.8 | 8.5         | 6.2       | 0.72 | 0.39        | 9.9          | 79.0  | 3.1       |
| 75  | 1.0 | 8.2         | 6.0       | 0.73 | 0.45        | 9.7          | 94.2  | 1.1       |
| 75  | 1.2 | 8.3         | 6.0       | 0.73 | 0.44        | 9.8          | 91.1  | 1.5       |
| 75  | 1.4 | 8.4         | 6.1       | 0.72 | 0.43        | 9.8          | 88.9  | 1.9       |
| 75  | 1.5 | 8.4         | 6.1       | 0.72 | 0.42        | 9.8          | 88.0  | 2.2       |
| 75  | 1.6 | 8.4         | 6.1       | 0.72 | 0.42        | 9.9          | 87.2  | 2.4       |
| 75  | 1.7 | 8.5         | 6.1       | 0.72 | 0.41        | 9.9          | 86.5  | 2.7       |
| 75  | 1.8 | 8.5         | 6.1       | 0.72 | 0.41        | 9.9          | 85.9  | 3.0       |
| 86  | 1.0 | 7.8         | 5.8       | 0.74 | 0.52        | 9.6          | 104.7 | 1.0       |
| 86  | 1.2 | 7.9         | 5.8       | 0.74 | 0.50        | 9.6          | 101.7 | 1.4       |
| 86  | 1.4 | 8.0         | 5.9       | 0.73 | 0.49        | 9.7          | 99.5  | 1.9       |
| 86  | 1.5 | 8.0         | 5.9       | 0.73 | 0.49        | 9.7          | 98.6  | 2.1       |
| 86  | 1.6 | 8.0         | 5.9       | 0.73 | 0.48        | 9.7          | 97.8  | 2.4       |
| 86  | 1.7 | 8.1         | 5.9       | 0.73 | 0.48        | 9.7          | 97.2  | 2.6       |
| 86  | 1.8 | 8.1         | 5.9       | 0.73 | 0.48        | 9.7          | 96.5  | 2.9       |
| 95  | 1.0 | 7.4         | 5.6       | 0.76 | 0.57        | 9.3          | 113.1 | 1.0       |
| 95  | 1.2 | 7.5         | 5.6       | 0.75 | 0.56        | 9.4          | 110.2 | 1.4       |
| 95  | 1.4 | 7.6         | 5.7       | 0.75 | 0.55        | 9.4          | 108.1 | 1.8       |
| 95  | 1.5 | 7.6         | 5.7       | 0.75 | 0.54        | 9.4          | 107.3 | 2.1       |
| 95  | 1.6 | 7.6         | 5.7       | 0.75 | 0.54        | 9.5          | 106.5 | 2.3       |
| 95  | 1.7 | 7.6         | 5.7       | 0.75 | 0.54        | 9.5          | 105.9 | 2.6       |
| 95  | 1.8 | 7.7         | 5.7       | 0.75 | 0.53        | 9.5          | 105.3 | 2.8       |
| 105 | 1.0 | 6.9         | 5.4       | 0.78 | 0.63        | 9.0          | 122.5 | 1.0       |
| 105 | 1.2 | 7.0         | 5.4       | 0.77 | 0.62        | 9.1          | 119.7 | 1.3       |
| 105 | 1.4 | 7.1         | 5.4       | 0.77 | 0.61        | 9.1          | 117.6 | 1.8       |
| 105 | 1.5 | 7.1         | 5.5       | 0.77 | 0.61        | 9.2          | 116.8 | 2.0       |
| 105 | 1.6 | 7.1         | 5.5       | 0.77 | 0.60        | 9.2          | 116.1 | 2.2       |
| 105 | 1.7 | 7.1         | 5.5       | 0.77 | 0.60        | 9.2          | 115.5 | 2.5       |
| 105 | 1.8 | 7.2         | 5.5       | 0.77 | 0.60        | 9.2          | 114.9 | 2.8       |



**Table 19. Cooling capacities 0.5 tons (gross) - GEV/H006 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|-------|-----------|
| 115 | 1.0 | 6.3         | 5.1       | 0.81 | 0.70        | 8.7          | 131.8 | 1.0       |
| 115 | 1.2 | 6.4         | 5.2       | 0.80 | 0.69        | 8.8          | 129.1 | 1.3       |
| 115 | 1.4 | 6.5         | 5.2       | 0.80 | 0.68        | 8.8          | 127.2 | 1.7       |
| 115 | 1.5 | 6.6         | 5.2       | 0.80 | 0.67        | 8.9          | 126.4 | 1.9       |
| 115 | 1.6 | 6.6         | 5.2       | 0.80 | 0.67        | 8.9          | 125.7 | 2.2       |
| 115 | 1.7 | 6.6         | 5.2       | 0.79 | 0.67        | 8.9          | 125.1 | 2.4       |
| 115 | 1.8 | 6.6         | 5.3       | 0.79 | 0.67        | 8.9          | 124.5 | 2.7       |
| 120 | 1.0 | 6.0         | 5.0       | 0.83 | 0.73        | 8.5          | 136.3 | 0.9       |
| 120 | 1.2 | 6.1         | 5.0       | 0.82 | 0.72        | 8.6          | 133.7 | 1.3       |
| 120 | 1.4 | 6.2         | 5.1       | 0.82 | 0.71        | 8.6          | 131.9 | 1.7       |
| 120 | 1.5 | 6.2         | 5.1       | 0.81 | 0.71        | 8.7          | 131.1 | 1.9       |
| 120 | 1.6 | 6.3         | 5.1       | 0.81 | 0.71        | 8.7          | 130.4 | 2.2       |
| 120 | 1.7 | 6.3         | 5.1       | 0.81 | 0.70        | 8.7          | 129.8 | 2.4       |
| 120 | 1.8 | 6.3         | 5.1       | 0.81 | 0.70        | 8.7          | 129.3 | 2.7       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 1.5; Minimum CFM 152; Rated CFM 190; than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 1.5; Minimum CFM 152; Rated CFM 190; Maximum CFM 228.

**Table 20. Heating capacities 0.5 tons (gross) - GEV/H006**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 25  | 1.0 | 4.5           | 3.0          | 0.44        | 17.3 | 1.7       |
| 25  | 1.2 | 4.6           | 3.0          | 0.45        | 18.5 | 2.4       |
| 25  | 1.4 | 4.6           | 3.1          | 0.45        | 19.3 | 3.1       |
| 25  | 1.5 | 4.7           | 3.1          | 0.45        | 19.7 | 3.5       |
| 25  | 1.6 | 4.7           | 3.2          | 0.45        | 20.0 | 3.9       |
| 25  | 1.7 | 4.7           | 3.2          | 0.45        | 20.2 | 4.3       |
| 25  | 1.8 | 4.7           | 3.2          | 0.45        | 20.5 | 4.8       |
| 32  | 1.0 | 5.0           | 3.4          | 0.46        | 23.4 | 1.7       |
| 32  | 1.2 | 5.1           | 3.5          | 0.47        | 24.6 | 2.3       |
| 32  | 1.4 | 5.2           | 3.6          | 0.47        | 25.6 | 3.0       |
| 32  | 1.5 | 5.2           | 3.6          | 0.47        | 26.0 | 3.4       |
| 32  | 1.6 | 5.3           | 3.6          | 0.47        | 26.3 | 3.8       |
| 32  | 1.7 | 5.3           | 3.7          | 0.47        | 26.6 | 4.2       |
| 32  | 1.8 | 5.3           | 3.7          | 0.48        | 26.9 | 4.6       |
| 45  | 1.0 | 6.6           | 4.9          | 0.50        | 34.4 | 1.3       |
| 45  | 1.2 | 6.7           | 5.0          | 0.50        | 35.9 | 1.7       |
| 45  | 1.4 | 6.8           | 5.1          | 0.51        | 37.1 | 2.3       |
| 45  | 1.5 | 6.9           | 5.2          | 0.51        | 37.5 | 2.5       |
| 45  | 1.6 | 6.9           | 5.2          | 0.51        | 37.9 | 2.8       |
| 45  | 1.7 | 7.0           | 5.2          | 0.51        | 38.3 | 3.2       |
| 45  | 1.8 | 7.0           | 5.3          | 0.51        | 38.6 | 3.5       |
| 55  | 1.0 | 7.5           | 5.7          | 0.53        | 42.7 | 1.2       |
| 55  | 1.2 | 7.6           | 5.8          | 0.53        | 44.5 | 1.7       |



## Performance Data

**Table 20. Heating capacities 0.5 tons (gross) - GEV/H006 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 55  | 1.4 | 7.8           | 6.0          | 0.54        | 45.8 | 2.2       |
| 55  | 1.5 | 7.8           | 6.0          | 0.54        | 46.3 | 2.4       |
| 55  | 1.6 | 7.9           | 6.1          | 0.54        | 46.8 | 2.7       |
| 55  | 1.7 | 7.9           | 6.1          | 0.54        | 47.2 | 3.0       |
| 55  | 1.8 | 8.0           | 6.1          | 0.54        | 47.6 | 3.4       |
| 68  | 1.0 | 9.2           | 7.2          | 0.56        | 52.8 | 1.1       |
| 68  | 1.2 | 9.4           | 7.5          | 0.57        | 54.9 | 1.5       |
| 68  | 1.4 | 9.6           | 7.6          | 0.58        | 56.5 | 2.0       |
| 68  | 1.5 | 9.7           | 7.7          | 0.58        | 57.2 | 2.2       |
| 68  | 1.6 | 9.8           | 7.8          | 0.58        | 57.8 | 2.5       |
| 68  | 1.7 | 9.8           | 7.8          | 0.58        | 58.3 | 2.8       |
| 68  | 1.8 | 9.9           | 7.9          | 0.58        | 58.8 | 3.1       |
| 75  | 1.0 | 10.0          | 8.0          | 0.59        | 58.0 | 1.1       |
| 75  | 1.2 | 10.1          | 8.1          | 0.59        | 60.8 | 1.5       |
| 75  | 1.4 | 10.3          | 8.3          | 0.59        | 62.5 | 1.9       |
| 75  | 1.5 | 10.4          | 8.3          | 0.60        | 63.2 | 2.2       |
| 75  | 1.6 | 10.5          | 8.4          | 0.60        | 63.8 | 2.4       |
| 75  | 1.7 | 10.5          | 8.5          | 0.60        | 64.4 | 2.7       |
| 75  | 1.8 | 10.6          | 8.5          | 0.60        | 64.9 | 3.0       |
| 86  | 1.0 | 10.8          | 8.8          | 0.61        | 67.3 | 1.0       |
| 86  | 1.2 | 11.1          | 9.0          | 0.62        | 69.9 | 1.4       |
| 86  | 1.4 | 11.3          | 9.2          | 0.62        | 71.8 | 1.9       |
| 86  | 1.5 | 11.4          | 9.3          | 0.62        | 72.7 | 2.1       |
| 86  | 1.6 | 11.5          | 9.3          | 0.63        | 73.4 | 2.4       |
| 86  | 1.7 | 11.5          | 9.4          | 0.63        | 74.0 | 2.6       |
| 86  | 1.8 | 11.6          | 9.5          | 0.63        | 74.6 | 2.9       |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 1.5; Minimum CFM 152; Rated CFM 190; Maximum CFM 228.

**Table 21. Fan correction factors 0.5 tons - GEV/H006**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 152          | 0.950            | 0.887             | 1.006               | 0.962            | 1.100               |
| 162          | 0.965            | 0.917             | 1.004               | 0.974            | 1.071               |
| 171          | 0.977            | 0.944             | 1.003               | 0.984            | 1.046               |
| 181          | 0.990            | 0.974             | 1.001               | 0.993            | 1.021               |
| 190          | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 209          | 1.019            | 1.055             | 0.997               | 1.013            | 0.961               |
| 219          | 1.028            | 1.083             | 0.996               | 1.018            | 0.942               |
| 228          | 1.035            | 1.109             | 0.995               | 1.022            | 0.926               |

**Table 22. Correction factors for variation in entering air temperature 0.5 tons, GEV/H006**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.928               | 1.012                  | 0.987                                      | 1.052 | 1.119 | 1.257 | 1.259 | 53.0                            | 1.041               | 0.850                  |
| 56.3                            | 0.878               | 1.012                  | 0.816                                      | 0.992 | 1.121 | 1.190 | 1.259 | 58.0                            | 1.030               | 0.903                  |
| 60.3                            | 0.895               | 1.011                  | 0.678                                      | 0.854 | 1.031 | 1.207 | 1.261 | 63.0                            | 1.017               | 0.953                  |
| 63.2                            | 0.944               | 1.007                  | 0.575                                      | 0.753 | 0.930 | 1.106 | 1.282 | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                  | 0.466                                      | 0.645 | 0.823 | 1.000 | 1.176 | 73.0                            | 0.982               | 1.046                  |
| 72.1                            | 1.116               | 0.979                  | —                                          | —     | 0.607 | 0.786 | 0.964 | 78.0                            | 0.963               | 1.092                  |
| 77.1                            | 1.221               | 0.955                  | —                                          | —     | —     | 0.598 | 0.778 | 83.0                            | 0.944               | 1.138                  |

Note: \* = Sensible equals total capacity

## Cooling and Heating Capacities 0.75 tons

**Table 23. Cooling capacities 0.75 tons (gross) - GEV/H009**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT  | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|------|-----------|
| 45  | 1.5 | 10.2        | 8.2       | 0.81 | 0.25        | 11.1         | 59.7 | 2.3       |
| 45  | 1.8 | 10.3        | 8.3       | 0.80 | 0.23        | 11.0         | 57.2 | 3.1       |
| 45  | 2.0 | 10.3        | 8.3       | 0.80 | 0.21        | 11.0         | 56.0 | 3.8       |
| 45  | 2.3 | 10.3        | 8.3       | 0.80 | 0.20        | 11.0         | 54.8 | 4.6       |
| 45  | 2.4 | 10.3        | 8.3       | 0.80 | 0.20        | 11.0         | 54.1 | 5.2       |
| 45  | 2.5 | 10.3        | 8.3       | 0.80 | 0.19        | 11.0         | 53.8 | 5.6       |
| 45  | 2.7 | 10.4        | 8.3       | 0.80 | 0.19        | 11.0         | 53.1 | 6.4       |
| 55  | 1.5 | 9.8         | 8.0       | 0.82 | 0.33        | 11.0         | 69.5 | 2.2       |
| 55  | 1.8 | 9.9         | 8.1       | 0.82 | 0.32        | 11.0         | 67.1 | 3.0       |
| 55  | 2.0 | 9.9         | 8.1       | 0.81 | 0.31        | 11.0         | 65.9 | 3.6       |
| 55  | 2.3 | 9.9         | 8.1       | 0.81 | 0.30        | 11.0         | 64.7 | 4.4       |
| 55  | 2.4 | 9.9         | 8.1       | 0.81 | 0.30        | 10.9         | 64.0 | 5.0       |
| 55  | 2.5 | 9.9         | 8.1       | 0.81 | 0.29        | 10.9         | 63.7 | 5.3       |
| 55  | 2.7 | 10.0        | 8.1       | 0.81 | 0.29        | 10.9         | 63.0 | 6.1       |
| 68  | 1.5 | 9.2         | 7.7       | 0.83 | 0.42        | 10.7         | 82.0 | 2.0       |
| 68  | 1.8 | 9.3         | 7.7       | 0.83 | 0.40        | 10.7         | 79.7 | 2.8       |
| 68  | 2.0 | 9.3         | 7.7       | 0.83 | 0.40        | 10.7         | 78.6 | 3.4       |
| 68  | 2.3 | 9.3         | 7.8       | 0.83 | 0.39        | 10.7         | 77.4 | 4.1       |
| 68  | 2.4 | 9.4         | 7.8       | 0.83 | 0.39        | 10.7         | 76.8 | 4.6       |
| 68  | 2.5 | 9.4         | 7.8       | 0.83 | 0.39        | 10.7         | 76.5 | 5.0       |
| 68  | 2.7 | 9.4         | 7.8       | 0.83 | 0.38        | 10.7         | 75.8 | 5.7       |
| 75  | 1.5 | 9.2         | 7.7       | 0.84 | 0.42        | 10.7         | 89.1 | 2.0       |
| 75  | 1.8 | 9.3         | 7.7       | 0.83 | 0.41        | 10.7         | 86.8 | 2.7       |
| 75  | 2.0 | 9.3         | 7.8       | 0.83 | 0.40        | 10.7         | 85.6 | 3.3       |
| 75  | 2.3 | 9.4         | 7.8       | 0.83 | 0.40        | 10.7         | 84.5 | 4.0       |
| 75  | 2.4 | 9.4         | 7.8       | 0.83 | 0.39        | 10.7         | 83.9 | 4.5       |
| 75  | 2.5 | 9.4         | 7.8       | 0.83 | 0.39        | 10.7         | 83.5 | 4.8       |
| 75  | 2.7 | 9.4         | 7.8       | 0.83 | 0.39        | 10.7         | 82.9 | 5.5       |



## Performance Data

**Table 23. Cooling capacities 0.75 tons (gross) - GEV/H009 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|-------|-----------|
| 86  | 1.5 | 8.8         | 7.4       | 0.85 | 0.49        | 10.4         | 99.7  | 1.9       |
| 86  | 1.8 | 8.9         | 7.5       | 0.84 | 0.47        | 10.5         | 97.5  | 2.6       |
| 86  | 2.0 | 8.9         | 7.5       | 0.84 | 0.47        | 10.5         | 96.3  | 3.2       |
| 86  | 2.3 | 8.9         | 7.5       | 0.84 | 0.46        | 10.5         | 95.2  | 3.9       |
| 86  | 2.4 | 8.9         | 7.5       | 0.84 | 0.46        | 10.5         | 94.6  | 4.4       |
| 86  | 2.5 | 8.9         | 7.5       | 0.84 | 0.46        | 10.5         | 94.3  | 4.7       |
| 86  | 2.7 | 9.0         | 7.5       | 0.84 | 0.45        | 10.5         | 93.7  | 5.3       |
| 95  | 1.5 | 8.3         | 7.2       | 0.87 | 0.54        | 10.1         | 108.3 | 1.9       |
| 95  | 1.8 | 8.4         | 7.2       | 0.86 | 0.53        | 10.2         | 106.1 | 2.6       |
| 95  | 2.0 | 8.4         | 7.2       | 0.86 | 0.53        | 10.2         | 105.0 | 3.1       |
| 95  | 2.3 | 8.4         | 7.3       | 0.86 | 0.52        | 10.2         | 103.9 | 3.8       |
| 95  | 2.4 | 8.5         | 7.3       | 0.86 | 0.52        | 10.2         | 103.4 | 4.2       |
| 95  | 2.5 | 8.5         | 7.3       | 0.86 | 0.52        | 10.2         | 103.0 | 4.6       |
| 95  | 2.7 | 8.5         | 7.3       | 0.86 | 0.51        | 10.2         | 102.5 | 5.2       |
| 105 | 1.5 | 7.7         | 6.9       | 0.90 | 0.61        | 9.7          | 117.6 | 1.8       |
| 105 | 1.8 | 7.8         | 6.9       | 0.89 | 0.60        | 9.8          | 115.6 | 2.5       |
| 105 | 2.0 | 7.8         | 6.9       | 0.89 | 0.59        | 9.8          | 114.6 | 3.0       |
| 105 | 2.3 | 7.8         | 7.0       | 0.89 | 0.59        | 9.8          | 113.6 | 3.7       |
| 105 | 2.4 | 7.9         | 7.0       | 0.89 | 0.58        | 9.9          | 113.0 | 4.1       |
| 105 | 2.5 | 7.9         | 7.0       | 0.88 | 0.58        | 9.9          | 112.7 | 4.4       |
| 105 | 2.7 | 7.9         | 7.0       | 0.88 | 0.58        | 9.9          | 112.2 | 5.1       |
| 115 | 1.5 | 7.0         | 6.5       | 0.93 | 0.68        | 9.3          | 127.1 | 1.8       |
| 115 | 1.8 | 7.1         | 6.6       | 0.93 | 0.67        | 9.4          | 125.1 | 2.4       |
| 115 | 2.0 | 7.2         | 6.6       | 0.92 | 0.66        | 9.4          | 124.2 | 2.9       |
| 115 | 2.3 | 7.2         | 6.6       | 0.92 | 0.66        | 9.4          | 123.2 | 3.6       |
| 115 | 2.4 | 7.2         | 6.6       | 0.92 | 0.65        | 9.5          | 122.7 | 4.0       |
| 115 | 2.5 | 7.2         | 6.6       | 0.92 | 0.65        | 9.5          | 122.4 | 4.3       |
| 115 | 2.7 | 7.3         | 6.7       | 0.92 | 0.65        | 9.5          | 121.8 | 4.9       |
| 120 | 1.5 | 6.7         | 6.4       | 0.96 | 0.71        | 9.1          | 131.7 | 1.7       |
| 120 | 1.8 | 6.8         | 6.4       | 0.95 | 0.70        | 9.1          | 129.8 | 2.4       |
| 120 | 2.0 | 6.8         | 6.4       | 0.95 | 0.70        | 9.2          | 128.9 | 2.9       |
| 120 | 2.3 | 6.8         | 6.5       | 0.94 | 0.69        | 9.2          | 127.9 | 3.5       |
| 120 | 2.4 | 6.9         | 6.5       | 0.94 | 0.69        | 9.2          | 127.5 | 4.0       |
| 120 | 2.5 | 6.9         | 6.5       | 0.94 | 0.69        | 9.2          | 127.2 | 4.3       |
| 120 | 2.7 | 6.9         | 6.5       | 0.94 | 0.69        | 9.3          | 126.6 | 4.9       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 2.25; Minimum CFM 228; Rated CFM 285; Maximum CFM 342.

**Table 24. Heating capacities 0.75 tons (gross) - GEV/H009**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 25  | 1.5 | 5.2           | 3.7          | 0.42        | 19.0 | 3.0       |
| 25  | 1.8 | 5.3           | 3.8          | 0.42        | 19.9 | 4.1       |
| 25  | 2.0 | 5.3           | 3.9          | 0.42        | 20.4 | 4.9       |
| 25  | 2.3 | 5.4           | 3.9          | 0.43        | 20.8 | 6.0       |
| 25  | 2.4 | 5.4           | 3.9          | 0.43        | 21.1 | 6.7       |
| 25  | 2.5 | 5.4           | 3.9          | 0.43        | 21.2 | 7.2       |
| 25  | 2.7 | 5.4           | 4.0          | 0.43        | 21.5 | 8.2       |
| 32  | 1.5 | 5.8           | 4.3          | 0.43        | 25.2 | 2.9       |
| 32  | 1.8 | 5.9           | 4.4          | 0.44        | 26.2 | 3.9       |
| 32  | 2.0 | 6.0           | 4.5          | 0.44        | 26.7 | 4.7       |
| 32  | 2.3 | 6.0           | 4.5          | 0.44        | 27.2 | 5.8       |
| 32  | 2.4 | 6.0           | 4.5          | 0.44        | 27.5 | 6.5       |
| 32  | 2.5 | 6.1           | 4.6          | 0.44        | 27.7 | 7.0       |
| 32  | 2.7 | 6.1           | 4.6          | 0.44        | 28.0 | 8.0       |
| 45  | 1.5 | 7.6           | 6.0          | 0.47        | 36.6 | 2.3       |
| 45  | 1.8 | 7.8           | 6.1          | 0.47        | 37.8 | 3.1       |
| 45  | 2.0 | 7.8           | 6.2          | 0.47        | 38.5 | 3.8       |
| 45  | 2.3 | 7.9           | 6.3          | 0.47        | 39.1 | 4.6       |
| 45  | 2.4 | 8.0           | 6.3          | 0.47        | 39.5 | 5.2       |
| 45  | 2.5 | 8.0           | 6.4          | 0.47        | 39.7 | 5.6       |
| 45  | 2.7 | 8.0           | 6.4          | 0.47        | 40.0 | 6.4       |
| 55  | 1.5 | 8.7           | 7.1          | 0.48        | 45.1 | 2.2       |
| 55  | 1.8 | 8.9           | 7.2          | 0.48        | 46.6 | 3.0       |
| 55  | 2.0 | 9.0           | 7.3          | 0.48        | 47.3 | 3.6       |
| 55  | 2.3 | 9.1           | 7.4          | 0.48        | 48.1 | 4.4       |
| 55  | 2.4 | 9.1           | 7.5          | 0.48        | 48.5 | 5.0       |
| 55  | 2.5 | 9.2           | 7.5          | 0.48        | 48.7 | 5.3       |
| 55  | 2.7 | 9.2           | 7.6          | 0.49        | 49.1 | 6.1       |
| 68  | 1.5 | 10.0          | 8.3          | 0.49        | 56.5 | 2.0       |
| 68  | 1.8 | 10.2          | 8.5          | 0.49        | 58.2 | 2.8       |
| 68  | 2.0 | 10.3          | 8.7          | 0.49        | 59.0 | 3.4       |
| 68  | 2.3 | 10.5          | 8.8          | 0.49        | 59.9 | 4.1       |
| 68  | 2.4 | 10.5          | 8.8          | 0.49        | 60.4 | 4.6       |
| 68  | 2.5 | 10.6          | 8.9          | 0.49        | 60.6 | 5.0       |
| 68  | 2.7 | 10.6          | 9.0          | 0.49        | 61.1 | 5.7       |
| 75  | 1.5 | 10.8          | 9.1          | 0.49        | 62.3 | 2.0       |
| 75  | 1.8 | 11.1          | 9.4          | 0.49        | 64.1 | 2.7       |
| 75  | 2.0 | 11.2          | 9.5          | 0.50        | 65.1 | 3.3       |
| 75  | 2.3 | 11.3          | 9.6          | 0.50        | 66.0 | 4.0       |
| 75  | 2.4 | 11.4          | 9.7          | 0.50        | 66.5 | 4.5       |
| 75  | 2.5 | 11.4          | 9.7          | 0.50        | 66.8 | 4.8       |



## Performance Data

**Table 24. Heating capacities 0.75 tons (gross) - GEV/H009 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 75  | 2.7 | 11.5          | 9.8          | 0.50        | 67.4 | 5.5       |
| 86  | 1.5 | 12.1          | 10.4         | 0.50        | 71.4 | 1.9       |
| 86  | 1.8 | 12.3          | 10.6         | 0.50        | 73.5 | 2.6       |
| 86  | 2.0 | 12.4          | 10.8         | 0.49        | 74.6 | 3.2       |
| 86  | 2.3 | 12.6          | 10.9         | 0.49        | 75.7 | 3.9       |
| 86  | 2.4 | 12.6          | 11.0         | 0.49        | 76.3 | 4.4       |
| 86  | 2.5 | 12.7          | 11.0         | 0.49        | 76.6 | 4.7       |
| 86  | 2.7 | 12.8          | 11.1         | 0.49        | 77.2 | 5.3       |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 2.25; Minimum CFM 228; Rated CFM 285; Maximum CFM 342.

**Table 25. Fan correction factors 0.75 tons - GEV/H009**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 228          | 0.958            | 0.874             | 1.012               | 0.973            | 1.093               |
| 242          | 0.970            | 0.905             | 1.008               | 0.981            | 1.067               |
| 257          | 0.982            | 0.938             | 1.005               | 0.989            | 1.041               |
| 271          | 0.991            | 0.969             | 1.003               | 0.995            | 1.020               |
| 285          | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 314          | 1.016            | 1.063             | 0.995               | 1.009            | 0.963               |
| 328          | 1.024            | 1.094             | 0.993               | 1.013            | 0.948               |
| 342          | 1.030            | 1.124             | 0.991               | 1.016            | 0.933               |

**Table 26. Correction factors for variation in entering air temperature 0.75 tons, GEV/H009**

| Cooling<br>Entering<br>Air WB °F | Cooling<br>Capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering<br>Air DB °F | Heating<br>Capacity | Heating<br>Input<br>Watts |
|----------------------------------|---------------------|---------------------------|--------------------------------------------|-------|-------|-------|-------|----------------------------------|---------------------|---------------------------|
|                                  |                     |                           | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                  |                     |                           |
| 49.4                             | 0.928               | 1.018                     | 0.900                                      | 0.967 | 1.036 | 1.107 | 1.181 | 53.0                             | 1.040               | 0.799                     |
| 56.3                             | 0.929               | 1.018                     | 0.782                                      | 0.980 | 1.038 | 1.109 | 1.181 | 58.0                             | 1.029               | 0.870                     |
| 60.3                             | 0.930               | 1.018                     | 0.620                                      | 0.827 | 1.034 | 1.110 | 1.182 | 63.0                             | 1.017               | 0.939                     |
| 63.2                             | 0.947               | 1.013                     | 0.500                                      | 0.709 | 0.916 | 1.124 | 1.183 | 68.0                             | 1.000               | 1.000                     |
| 66.2                             | 1.000               | 1.000                     | 0.375                                      | 0.585 | 0.793 | 1.000 | 1.202 | 73.0                             | 0.982               | 1.060                     |
| 72.1                             | 1.120               | 0.960                     | —                                          | —     | 0.544 | 0.754 | 0.963 | 78.0                             | 0.962               | 1.118                     |
| 77.1                             | 1.219               | 0.905                     | —                                          | —     | —     | 0.532 | 0.743 | 83.0                             | 0.941               | 1.176                     |

**Note:** \* = Sensible equals total capacity

## Cooling and Heating Capacities 1 ton

**Table 27. Cooling capacities 1 ton (gross) - GEV/H012**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT  | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|------|-----------|
| 45  | 2.0 | 13.0        | 10.7      | 0.82 | 0.37        | 14.3         | 59.1 | 3.8       |
| 45  | 2.4 | 13.1        | 10.7      | 0.82 | 0.34        | 14.3         | 56.8 | 5.2       |
| 45  | 2.7 | 13.1        | 10.8      | 0.82 | 0.33        | 14.3         | 55.5 | 6.4       |
| 45  | 3.0 | 13.2        | 10.8      | 0.82 | 0.32        | 14.3         | 54.4 | 7.6       |
| 45  | 3.2 | 13.2        | 10.8      | 0.82 | 0.31        | 14.3         | 53.8 | 8.6       |

**Table 27. Cooling capacities 1 ton (gross) - GEV/H012 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|-------|-----------|
| 45  | 3.3 | 13.2        | 10.8      | 0.82 | 0.31        | 14.3         | 53.6  | 9.0       |
| 45  | 3.6 | 13.2        | 10.8      | 0.82 | 0.30        | 14.3         | 52.9  | 10.5      |
| 55  | 2.0 | 12.5        | 10.4      | 0.84 | 0.46        | 14.1         | 68.9  | 3.6       |
| 55  | 2.4 | 12.6        | 10.5      | 0.83 | 0.45        | 14.1         | 66.6  | 5.0       |
| 55  | 2.7 | 12.6        | 10.5      | 0.83 | 0.44        | 14.1         | 65.3  | 6.1       |
| 55  | 3.0 | 12.6        | 10.5      | 0.83 | 0.43        | 14.1         | 64.3  | 7.4       |
| 55  | 3.2 | 12.6        | 10.5      | 0.83 | 0.42        | 14.1         | 63.7  | 8.2       |
| 55  | 3.3 | 12.7        | 10.5      | 0.83 | 0.42        | 14.1         | 63.4  | 8.7       |
| 55  | 3.6 | 12.7        | 10.5      | 0.83 | 0.42        | 14.1         | 62.7  | 10.1      |
| 68  | 2.0 | 11.7        | 10.0      | 0.85 | 0.57        | 13.6         | 81.4  | 3.4       |
| 68  | 2.4 | 11.8        | 10.0      | 0.85 | 0.55        | 13.7         | 79.2  | 4.6       |
| 68  | 2.7 | 11.8        | 10.0      | 0.85 | 0.55        | 13.7         | 78.0  | 5.7       |
| 68  | 3.0 | 11.8        | 10.1      | 0.85 | 0.54        | 13.7         | 77.0  | 6.8       |
| 68  | 3.2 | 11.9        | 10.1      | 0.85 | 0.54        | 13.7         | 76.4  | 7.6       |
| 68  | 3.3 | 11.9        | 10.1      | 0.85 | 0.54        | 13.7         | 76.2  | 8.1       |
| 68  | 3.6 | 11.9        | 10.1      | 0.85 | 0.53        | 13.7         | 75.5  | 9.4       |
| 75  | 2.0 | 11.8        | 10.1      | 0.85 | 0.58        | 13.8         | 88.6  | 3.3       |
| 75  | 2.4 | 11.9        | 10.1      | 0.85 | 0.57        | 13.9         | 86.4  | 4.5       |
| 75  | 2.7 | 12.0        | 10.2      | 0.85 | 0.56        | 13.9         | 85.1  | 5.6       |
| 75  | 3.0 | 12.0        | 10.2      | 0.85 | 0.55        | 13.9         | 84.1  | 6.7       |
| 75  | 3.2 | 12.1        | 10.2      | 0.85 | 0.55        | 13.9         | 83.6  | 7.5       |
| 75  | 3.3 | 12.0        | 10.2      | 0.85 | 0.55        | 13.9         | 83.3  | 7.9       |
| 75  | 3.6 | 12.1        | 10.2      | 0.84 | 0.54        | 13.9         | 82.6  | 9.2       |
| 86  | 2.0 | 11.4        | 9.9       | 0.87 | 0.68        | 13.7         | 99.5  | 3.2       |
| 86  | 2.4 | 11.5        | 9.9       | 0.86 | 0.67        | 13.8         | 97.3  | 4.4       |
| 86  | 2.7 | 11.5        | 9.9       | 0.86 | 0.66        | 13.8         | 96.0  | 5.4       |
| 86  | 3.0 | 11.6        | 9.9       | 0.86 | 0.65        | 13.8         | 95.0  | 6.4       |
| 86  | 3.2 | 11.6        | 9.9       | 0.86 | 0.65        | 13.8         | 94.5  | 7.2       |
| 86  | 3.3 | 11.6        | 10.0      | 0.86 | 0.65        | 13.8         | 94.2  | 7.6       |
| 86  | 3.6 | 11.6        | 10.0      | 0.86 | 0.64        | 13.8         | 93.5  | 8.8       |
| 95  | 2.0 | 10.7        | 9.5       | 0.89 | 0.75        | 13.3         | 108.1 | 3.1       |
| 95  | 2.4 | 10.9        | 9.6       | 0.88 | 0.74        | 13.4         | 105.9 | 4.3       |
| 95  | 2.7 | 10.9        | 9.6       | 0.88 | 0.73        | 13.4         | 104.7 | 5.2       |
| 95  | 3.0 | 11.0        | 9.6       | 0.88 | 0.73        | 13.4         | 103.8 | 6.3       |
| 95  | 3.2 | 11.0        | 9.7       | 0.88 | 0.72        | 13.5         | 103.2 | 7.0       |
| 95  | 3.3 | 11.0        | 9.7       | 0.88 | 0.72        | 13.5         | 103.0 | 7.4       |
| 95  | 3.6 | 11.0        | 9.7       | 0.88 | 0.72        | 13.5         | 102.3 | 8.6       |
| 105 | 2.0 | 10.0        | 9.2       | 0.92 | 0.84        | 12.9         | 117.6 | 3.0       |
| 105 | 2.4 | 10.1        | 9.2       | 0.92 | 0.83        | 12.9         | 115.5 | 4.1       |
| 105 | 2.7 | 10.2        | 9.3       | 0.91 | 0.82        | 12.9         | 114.4 | 5.1       |
| 105 | 3.0 | 10.2        | 9.3       | 0.91 | 0.81        | 13.0         | 113.5 | 6.1       |



## Performance Data

**Table 27. Cooling capacities 1 ton (gross) - GEV/H012 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|-------|-----------|
| 105 | 3.2 | 10.2        | 9.3       | 0.91 | 0.81        | 13.0         | 112.9 | 6.8       |
| 105 | 3.3 | 10.2        | 9.3       | 0.91 | 0.81        | 13.0         | 112.7 | 7.2       |
| 105 | 3.6 | 10.2        | 9.3       | 0.91 | 0.81        | 13.0         | 112.7 | 8.4       |
| 115 | 2.0 | 9.2         | 8.8       | 0.96 | 0.93        | 12.4         | 127.0 | 2.9       |
| 115 | 2.4 | 9.3         | 8.9       | 0.95 | 0.92        | 12.4         | 125.1 | 4.0       |
| 115 | 2.7 | 9.4         | 8.9       | 0.95 | 0.91        | 12.5         | 124.0 | 4.9       |
| 115 | 3.0 | 9.4         | 8.9       | 0.95 | 0.91        | 12.5         | 123.1 | 5.9       |
| 115 | 3.2 | 9.5         | 8.9       | 0.95 | 0.90        | 12.5         | 122.6 | 6.6       |
| 115 | 3.3 | 9.5         | 9.0       | 0.95 | 0.90        | 12.5         | 122.4 | 7.0       |
| 115 | 3.6 | 9.5         | 9.0       | 0.94 | 0.90        | 12.6         | 121.8 | 8.2       |
| 120 | 2.0 | 8.7         | 8.6       | 0.99 | 0.98        | 12.0         | 131.7 | 2.9       |
| 120 | 2.4 | 8.8         | 8.7       | 0.98 | 0.97        | 12.1         | 129.8 | 4.0       |
| 120 | 2.7 | 8.9         | 8.7       | 0.98 | 0.96        | 12.2         | 128.8 | 4.9       |
| 120 | 3.0 | 9.0         | 8.7       | 0.97 | 0.95        | 12.2         | 127.9 | 5.9       |
| 120 | 3.2 | 9.0         | 8.7       | 0.97 | 0.95        | 12.2         | 127.4 | 6.6       |
| 120 | 3.3 | 9.0         | 8.7       | 0.97 | 0.95        | 12.2         | 127.2 | 6.9       |
| 120 | 3.6 | 9.0         | 8.8       | 0.97 | 0.95        | 12.3         | 126.6 | 8.1       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 3; Minimum CFM 304; Rated CFM 380; Maximum CFM 456.

**Table 28. Heating capacities 1 ton (gross) - GEV/H012**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 25  | 2.0 | 6.7           | 4.7          | 0.58        | 19.4 | 4.9       |
| 25  | 2.4 | 6.8           | 4.8          | 0.58        | 20.2 | 6.7       |
| 25  | 2.7 | 6.8           | 4.8          | 0.59        | 20.7 | 8.3       |
| 25  | 3.0 | 6.9           | 4.9          | 0.59        | 21.1 | 9.9       |
| 25  | 3.2 | 6.9           | 4.9          | 0.59        | 21.3 | 11.1      |
| 25  | 3.3 | 6.9           | 4.9          | 0.59        | 21.4 | 11.7      |
| 25  | 3.6 | 7.0           | 5.0          | 0.59        | 21.7 | 13.6      |
| 32  | 2.0 | 7.5           | 5.4          | 0.60        | 25.6 | 4.8       |
| 32  | 2.4 | 7.6           | 5.5          | 0.61        | 26.6 | 6.5       |
| 32  | 2.7 | 7.7           | 5.6          | 0.61        | 27.1 | 8.0       |
| 32  | 3.0 | 7.7           | 5.7          | 0.61        | 27.6 | 9.6       |
| 32  | 3.2 | 7.8           | 5.7          | 0.61        | 27.8 | 10.8      |
| 32  | 3.3 | 7.8           | 5.7          | 0.61        | 27.9 | 11.4      |
| 32  | 3.6 | 7.8           | 5.8          | 0.61        | 28.3 | 13.2      |
| 45  | 2.0 | 9.8           | 7.6          | 0.64        | 37.0 | 3.8       |
| 45  | 2.4 | 10.0          | 7.8          | 0.64        | 38.2 | 5.2       |
| 45  | 2.7 | 10.1          | 7.9          | 0.65        | 38.9 | 6.4       |
| 45  | 3.0 | 10.2          | 8.0          | 0.65        | 39.4 | 7.6       |
| 45  | 3.2 | 10.3          | 8.1          | 0.65        | 39.8 | 8.6       |



**Table 28. Heating capacities 1 ton (gross) - GEV/H012 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 45  | 3.3 | 10.3          | 8.1          | 0.65        | 39.9 | 9.0       |
| 45  | 3.6 | 10.4          | 8.1          | 0.65        | 40.3 | 10.5      |
| 55  | 2.0 | 11.3          | 9.0          | 0.66        | 45.6 | 3.6       |
| 55  | 2.4 | 11.5          | 9.2          | 0.67        | 47.0 | 5.0       |
| 55  | 2.7 | 11.6          | 9.3          | 0.67        | 47.8 | 6.1       |
| 55  | 3.0 | 11.7          | 9.5          | 0.67        | 48.4 | 7.4       |
| 55  | 3.2 | 11.8          | 9.5          | 0.67        | 48.8 | 8.2       |
| 55  | 3.3 | 11.8          | 9.5          | 0.67        | 49.0 | 8.7       |
| 55  | 3.6 | 11.9          | 9.6          | 0.67        | 49.4 | 10.1      |
| 68  | 2.0 | 13.3          | 10.9         | 0.70        | 56.8 | 3.4       |
| 68  | 2.4 | 13.6          | 11.2         | 0.70        | 58.4 | 4.6       |
| 68  | 2.7 | 13.8          | 11.4         | 0.70        | 59.3 | 5.7       |
| 68  | 3.0 | 13.9          | 11.5         | 0.71        | 60.1 | 6.8       |
| 68  | 3.2 | 14.0          | 11.6         | 0.71        | 60.5 | 7.6       |
| 68  | 3.3 | 14.0          | 11.6         | 0.71        | 60.7 | 8.1       |
| 68  | 3.6 | 14.2          | 11.7         | 0.71        | 61.3 | 9.4       |
| 75  | 2.0 | 14.4          | 12.0         | 0.71        | 62.6 | 3.3       |
| 75  | 2.4 | 14.7          | 12.3         | 0.71        | 64.4 | 4.5       |
| 75  | 2.7 | 14.9          | 12.5         | 0.72        | 65.4 | 5.6       |
| 75  | 3.0 | 15.1          | 12.6         | 0.72        | 66.2 | 6.7       |
| 75  | 3.2 | 15.2          | 12.7         | 0.72        | 66.7 | 7.5       |
| 75  | 3.3 | 15.2          | 12.8         | 0.72        | 67.0 | 7.9       |
| 75  | 3.6 | 15.3          | 12.9         | 0.72        | 67.6 | 9.2       |
| 86  | 2.0 | 16.1          | 13.6         | 0.72        | 71.7 | 3.2       |
| 86  | 2.4 | 16.5          | 14.0         | 0.73        | 73.7 | 4.4       |
| 86  | 2.7 | 16.7          | 14.2         | 0.73        | 74.9 | 5.4       |
| 86  | 3.0 | 16.9          | 14.4         | 0.73        | 75.9 | 6.4       |
| 86  | 3.2 | 17.0          | 14.5         | 0.73        | 76.4 | 7.2       |
| 86  | 3.3 | 17.0          | 14.5         | 0.73        | 76.7 | 7.6       |
| 86  | 3.6 | 17.1          | 14.6         | 0.73        | 77.4 | 8.8       |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 3; Minimum CFM 304; Rated CFM 380; Maximum CFM 456.

**Table 29. Fan correction factors 1 ton - GEV/H012**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 304          | 0.960            | 0.875             | 1.009               | 0.975            | 1.082               |
| 323          | 0.971            | 0.907             | 1.007               | 0.983            | 1.058               |
| 342          | 0.982            | 0.938             | 1.004               | 0.989            | 1.037               |
| 361          | 0.991            | 0.969             | 1.002               | 0.995            | 1.018               |
| 380          | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 418          | 1.016            | 1.062             | 0.996               | 1.008            | 0.968               |



## Performance Data

**Table 29. Fan correction factors 1 ton - GEV/H012 (continued)**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 437          | 1.023            | 1.093             | 0.995               | 1.012            | 0.954               |
| 456          | 1.030            | 1.124             | 0.993               | 1.015            | 0.941               |

**Table 30. Correction factors for variation in entering air temperature 1 ton, GEV/H012**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.941               | 1.011                  | 0.896                                      | 0.961 | 1.027 | 1.095 | 1.165 | 53.0                            | 1.048               | 0.833                  |
| 56.3                            | 0.942               | 1.011                  | 0.785                                      | 0.969 | 1.029 | 1.096 | 1.165 | 58.0                            | 1.033               | 0.890                  |
| 60.3                            | 0.943               | 1.011                  | 0.620                                      | 0.828 | 1.037 | 1.097 | 1.166 | 63.0                            | 1.017               | 0.946                  |
| 63.2                            | 0.955               | 1.009                  | 0.499                                      | 0.709 | 0.919 | 1.111 | 1.167 | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                  | 0.372                                      | 0.583 | 0.793 | 1.000 | 1.168 | 73.0                            | 0.982               | 1.053                  |
| 72.1                            | 1.113               | 0.972                  | —                                          | —     | 0.540 | 0.751 | 0.962 | 78.0                            | 0.964               | 1.105                  |
| 77.1                            | 1.217               | 0.937                  | —                                          | —     | —     | 0.532 | 0.745 | 83.0                            | 0.944               | 1.156                  |

Note: \* = Sensible equals total capacity

## Cooling and Heating Capacities 1.25 tons

**Table 31. Cooling capacities 1.25 tons (gross) - GEV/H015**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT  | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|------|-----------|
| 45  | 2.4 | 17.8        | 14.0      | 0.79 | 0.53        | 19.6         | 61.2 | 5.8       |
| 45  | 3.0 | 17.9        | 14.0      | 0.78 | 0.50        | 19.6         | 57.9 | 8.5       |
| 45  | 3.4 | 17.9        | 14.0      | 0.78 | 0.48        | 19.6         | 56.4 | 10.6      |
| 45  | 3.8 | 18.0        | 14.1      | 0.78 | 0.47        | 19.5         | 55.3 | 12.6      |
| 45  | 3.9 | 18.0        | 14.1      | 0.78 | 0.46        | 19.5         | 54.9 | 13.5      |
| 45  | 4.1 | 18.0        | 14.1      | 0.78 | 0.46        | 19.5         | 54.5 | 14.7      |
| 45  | 4.5 | 18.0        | 14.1      | 0.78 | 0.45        | 19.5         | 53.6 | 17.3      |
| 55  | 2.4 | 17.3        | 13.7      | 0.80 | 0.65        | 19.5         | 71.1 | 5.6       |
| 55  | 3.0 | 17.4        | 13.8      | 0.79 | 0.62        | 19.5         | 67.8 | 8.2       |
| 55  | 3.4 | 17.4        | 13.8      | 0.79 | 0.61        | 19.5         | 66.3 | 10.2      |
| 55  | 3.8 | 17.4        | 13.8      | 0.79 | 0.60        | 19.5         | 65.3 | 12.1      |
| 55  | 3.9 | 17.4        | 13.8      | 0.79 | 0.59        | 19.5         | 64.9 | 12.9      |
| 55  | 4.1 | 17.4        | 13.8      | 0.79 | 0.59        | 19.4         | 64.4 | 14.1      |
| 55  | 4.5 | 17.5        | 13.8      | 0.79 | 0.58        | 19.4         | 63.6 | 16.6      |
| 68  | 2.4 | 16.5        | 13.3      | 0.81 | 0.79        | 19.2         | 83.7 | 5.2       |
| 68  | 3.0 | 16.6        | 13.4      | 0.81 | 0.76        | 19.2         | 80.6 | 7.6       |
| 68  | 3.4 | 16.6        | 13.4      | 0.81 | 0.75        | 19.2         | 79.1 | 9.4       |
| 68  | 3.8 | 16.6        | 13.4      | 0.81 | 0.74        | 19.2         | 78.1 | 11.2      |
| 68  | 3.9 | 16.6        | 13.4      | 0.81 | 0.74        | 19.2         | 77.7 | 12.0      |
| 68  | 4.1 | 16.7        | 13.4      | 0.81 | 0.74        | 19.2         | 77.2 | 13.0      |
| 68  | 4.5 | 16.7        | 13.4      | 0.81 | 0.73        | 19.2         | 76.4 | 15.3      |
| 75  | 2.4 | 16.3        | 13.2      | 0.81 | 0.85        | 19.2         | 90.8 | 5.0       |
| 75  | 3.0 | 16.4        | 13.3      | 0.81 | 0.82        | 19.2         | 87.7 | 7.4       |

**Table 31. Cooling capacities 1.25 tons (gross) - GEV/H015 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|-------|-----------|
| 75  | 3.4 | 16.5        | 13.3      | 0.81 | 0.81        | 19.2         | 86.2  | 9.2       |
| 75  | 3.8 | 16.5        | 13.3      | 0.81 | 0.80        | 19.2         | 85.1  | 10.9      |
| 75  | 3.9 | 16.5        | 13.3      | 0.81 | 0.79        | 19.2         | 84.7  | 11.7      |
| 75  | 4.1 | 16.5        | 13.3      | 0.81 | 0.79        | 19.2         | 84.3  | 12.7      |
| 75  | 4.5 | 16.6        | 13.4      | 0.81 | 0.78        | 19.2         | 83.4  | 15.0      |
| 86  | 2.4 | 15.7        | 12.9      | 0.82 | 0.97        | 19.0         | 101.6 | 4.9       |
| 86  | 3.0 | 15.8        | 13.0      | 0.82 | 0.95        | 19.0         | 98.5  | 7.2       |
| 86  | 3.4 | 15.9        | 13.0      | 0.82 | 0.94        | 19.0         | 97.1  | 8.9       |
| 86  | 3.8 | 15.9        | 13.0      | 0.82 | 0.93        | 19.1         | 96.0  | 10.5      |
| 86  | 3.9 | 15.9        | 13.0      | 0.82 | 0.93        | 19.1         | 95.7  | 11.3      |
| 86  | 4.1 | 15.9        | 13.0      | 0.82 | 0.92        | 19.1         | 95.2  | 12.3      |
| 86  | 4.5 | 15.9        | 13.1      | 0.82 | 0.91        | 19.1         | 94.4  | 14.5      |
| 95  | 2.4 | 14.9        | 12.5      | 0.84 | 1.07        | 18.5         | 110.2 | 4.7       |
| 95  | 3.0 | 15.0        | 12.6      | 0.84 | 1.04        | 18.6         | 107.2 | 7.0       |
| 95  | 3.4 | 15.1        | 12.7      | 0.84 | 1.03        | 18.6         | 105.8 | 8.7       |
| 95  | 3.8 | 15.2        | 12.7      | 0.84 | 1.02        | 18.7         | 104.8 | 10.3      |
| 95  | 3.9 | 15.2        | 12.7      | 0.84 | 1.02        | 18.7         | 104.4 | 11.0      |
| 95  | 4.1 | 15.2        | 12.7      | 0.84 | 1.02        | 18.7         | 104.0 | 12.0      |
| 95  | 4.5 | 15.2        | 12.7      | 0.83 | 1.01        | 18.7         | 103.2 | 14.1      |
| 105 | 2.4 | 13.8        | 12.0      | 0.87 | 1.17        | 17.8         | 119.5 | 4.6       |
| 105 | 3.0 | 14.0        | 12.2      | 0.87 | 1.14        | 17.9         | 116.7 | 6.7       |
| 105 | 3.4 | 14.1        | 12.2      | 0.86 | 1.13        | 18.0         | 115.4 | 8.4       |
| 105 | 3.8 | 14.2        | 12.2      | 0.86 | 1.13        | 18.0         | 114.5 | 10.0      |
| 105 | 3.9 | 14.2        | 12.2      | 0.86 | 1.13        | 18.1         | 114.1 | 10.7      |
| 105 | 4.1 | 14.3        | 12.3      | 0.86 | 1.12        | 18.1         | 113.7 | 11.7      |
| 105 | 4.5 | 14.3        | 12.3      | 0.86 | 1.12        | 18.1         | 112.9 | 13.8      |
| 115 | 2.4 | 12.7        | 11.6      | 0.91 | 1.27        | 17.0         | 128.9 | 4.4       |
| 115 | 3.0 | 12.9        | 11.7      | 0.90 | 1.25        | 17.2         | 126.2 | 6.6       |
| 115 | 3.4 | 13.0        | 11.7      | 0.90 | 1.24        | 17.3         | 124.9 | 8.2       |
| 115 | 3.8 | 13.1        | 11.7      | 0.90 | 1.24        | 17.3         | 124.0 | 9.7       |
| 115 | 3.9 | 13.1        | 11.8      | 0.90 | 1.23        | 17.3         | 123.7 | 10.4      |
| 115 | 4.1 | 13.2        | 11.8      | 0.89 | 1.23        | 17.4         | 123.3 | 11.4      |
| 115 | 4.5 | 13.2        | 11.8      | 0.89 | 1.23        | 17.4         | 122.6 | 13.4      |
| 120 | 2.4 | 12.0        | 11.3      | 0.94 | 1.32        | 16.5         | 133.4 | 4.4       |
| 120 | 3.0 | 12.3        | 11.4      | 0.93 | 1.30        | 16.7         | 130.9 | 6.5       |
| 120 | 3.4 | 12.4        | 11.4      | 0.92 | 1.29        | 16.8         | 129.7 | 8.1       |
| 120 | 3.8 | 12.5        | 11.5      | 0.92 | 1.29        | 16.9         | 128.8 | 9.6       |
| 120 | 3.9 | 12.5        | 11.5      | 0.92 | 1.29        | 16.9         | 128.5 | 10.3      |
| 120 | 4.1 | 12.5        | 11.5      | 0.92 | 1.28        | 16.9         | 128.1 | 11.2      |



## Performance Data

**Table 31. Cooling capacities 1.25 tons (gross) - GEV/H015 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|-------|-----------|
| 120 | 4.5 | 12.6        | 11.5      | 0.92 | 1.28        | 16.9         | 127.4 | 13.2      |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 3.75; Minimum CFM 380; Rated CFM 475; Maximum CFM 570.

**Table 32. Heating capacities 1.25 tons (gross) - GEV/H015**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 25  | 2.4 | 9.9           | 7.2          | 0.82        | 17.9 | 8.1       |
| 25  | 3.0 | 10.2          | 7.4          | 0.82        | 19.2 | 11.9      |
| 25  | 3.4 | 10.3          | 7.5          | 0.83        | 19.8 | 14.8      |
| 25  | 3.8 | 10.4          | 7.6          | 0.83        | 20.2 | 17.6      |
| 25  | 3.9 | 10.4          | 7.6          | 0.83        | 20.4 | 18.8      |
| 25  | 4.1 | 10.5          | 7.6          | 0.83        | 20.6 | 20.5      |
| 25  | 4.5 | 10.5          | 7.7          | 0.83        | 21.0 | 24.1      |
| 32  | 2.4 | 11.1          | 8.2          | 0.85        | 24.0 | 7.9       |
| 32  | 3.0 | 11.4          | 8.5          | 0.86        | 25.4 | 11.6      |
| 32  | 3.4 | 11.5          | 8.6          | 0.86        | 26.1 | 14.4      |
| 32  | 3.8 | 11.6          | 8.7          | 0.86        | 26.6 | 17.0      |
| 32  | 3.9 | 11.7          | 8.7          | 0.86        | 26.8 | 18.2      |
| 32  | 4.1 | 11.7          | 8.8          | 0.86        | 27.0 | 19.9      |
| 32  | 4.5 | 11.8          | 8.9          | 0.87        | 27.4 | 23.4      |
| 45  | 2.4 | 14.3          | 11.1         | 0.93        | 35.3 | 5.8       |
| 45  | 3.0 | 14.6          | 11.5         | 0.93        | 37.0 | 8.5       |
| 45  | 3.4 | 14.8          | 11.6         | 0.94        | 37.8 | 10.6      |
| 45  | 3.8 | 15.0          | 11.7         | 0.94        | 38.4 | 12.6      |
| 45  | 3.9 | 15.0          | 11.8         | 0.94        | 38.7 | 13.5      |
| 45  | 4.1 | 15.1          | 11.8         | 0.94        | 38.9 | 14.7      |
| 45  | 4.5 | 15.2          | 11.9         | 0.94        | 39.4 | 17.3      |
| 55  | 2.4 | 16.3          | 13.0         | 0.97        | 43.7 | 5.6       |
| 55  | 3.0 | 16.7          | 13.4         | 0.98        | 45.6 | 8.2       |
| 55  | 3.4 | 17.0          | 13.6         | 0.98        | 46.6 | 10.2      |
| 55  | 3.8 | 17.1          | 13.8         | 0.98        | 47.3 | 12.1      |
| 55  | 3.9 | 17.2          | 13.8         | 0.98        | 47.6 | 12.9      |
| 55  | 4.1 | 17.2          | 13.9         | 0.98        | 47.9 | 14.1      |
| 55  | 4.5 | 17.3          | 14.0         | 0.99        | 48.5 | 16.6      |
| 68  | 2.4 | 18.7          | 15.2         | 1.01        | 54.9 | 5.2       |
| 68  | 3.0 | 19.3          | 15.8         | 1.02        | 57.1 | 7.6       |
| 68  | 3.4 | 19.5          | 16.0         | 1.02        | 58.2 | 9.4       |
| 68  | 3.8 | 19.7          | 16.2         | 1.03        | 59.0 | 11.2      |
| 68  | 3.9 | 19.8          | 16.3         | 1.03        | 59.3 | 12.0      |
| 68  | 4.1 | 19.9          | 16.4         | 1.03        | 59.7 | 13.0      |
| 68  | 4.5 | 20.1          | 16.5         | 1.03        | 60.4 | 15.3      |

**Table 32. Heating capacities 1.25 tons (gross) - GEV/H015 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 75  | 2.4 | 20.2          | 16.6         | 1.03        | 60.6 | 5.0       |
| 75  | 3.0 | 20.8          | 17.2         | 1.04        | 63.0 | 7.4       |
| 75  | 3.4 | 21.1          | 17.5         | 1.05        | 64.2 | 9.2       |
| 75  | 3.8 | 21.3          | 17.7         | 1.05        | 65.1 | 10.9      |
| 75  | 3.9 | 21.4          | 17.8         | 1.05        | 65.4 | 11.7      |
| 75  | 4.1 | 21.5          | 17.9         | 1.05        | 65.9 | 12.7      |
| 75  | 4.5 | 21.6          | 18.1         | 1.05        | 66.6 | 15.0      |
| 86  | 2.4 | 22.5          | 18.8         | 1.06        | 69.4 | 4.9       |
| 86  | 3.0 | 23.1          | 19.5         | 1.07        | 72.2 | 7.2       |
| 86  | 3.4 | 23.4          | 19.8         | 1.07        | 73.6 | 8.9       |
| 86  | 3.8 | 23.7          | 20.0         | 1.07        | 74.6 | 10.5      |
| 86  | 3.9 | 23.8          | 20.1         | 1.08        | 75.0 | 11.3      |
| 86  | 4.1 | 23.9          | 20.2         | 1.08        | 75.5 | 12.3      |
| 86  | 4.5 | 24.0          | 20.4         | 1.08        | 76.3 | 14.5      |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 3.75; Minimum CFM 380; Rated CFM 475; Maximum CFM 570.

**Table 33. Fan correction factors 1.25 tons - GEV/H015**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 380          | 0.956            | 0.877             | 1.005               | 0.974            | 1.084               |
| 404          | 0.969            | 0.908             | 1.004               | 0.983            | 1.060               |
| 428          | 0.980            | 0.940             | 1.002               | 0.989            | 1.038               |
| 451          | 0.990            | 0.970             | 1.001               | 0.995            | 1.019               |
| 475          | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 523          | 1.017            | 1.061             | 0.998               | 1.008            | 0.967               |
| 546          | 1.024            | 1.090             | 0.997               | 1.011            | 0.952               |
| 570          | 1.031            | 1.120             | 0.995               | 1.014            | 0.939               |

**Table 34. Correction factors for variation in entering air temperature 1.25 tons, GEV/H015**

| Cooling Entering Air WB°F | Cooling Capacity | Cooling Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating Entering Air DB°F | Heating Capacity | Heating Input Watts |
|---------------------------|------------------|---------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------|------------------|---------------------|
|                           |                  |                     | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                           |                  |                     |
| 49.4                      | 0.892            | 1.012               | 0.893                                      | 0.956 | 1.021 | 1.088 | 1.158 | 53.0                      | 1.037            | 0.842               |
| 56.3                      | 0.893            | 1.012               | 0.789                                      | 0.986 | 1.023 | 1.090 | 1.158 | 58.0                      | 1.027            | 0.897               |
| 60.3                      | 0.898            | 1.011               | 0.634                                      | 0.833 | 1.031 | 1.095 | 1.159 | 63.0                      | 1.014            | 0.950               |
| 63.2                      | 0.942            | 1.007               | 0.519                                      | 0.720 | 0.920 | 1.117 | 1.164 | 68.0                      | 1.000            | 1.000               |
| 66.2                      | 1.000            | 1.000               | 0.399                                      | 0.600 | 0.801 | 1.000 | 1.198 | 73.0                      | 0.985            | 1.049               |
| 72.1                      | 1.123            | 0.980               | -                                          | -     | 0.562 | 0.764 | 0.965 | 78.0                      | 0.968            | 1.095               |
| 77.1                      | 1.231            | 0.952               | -                                          | -     | -     | 0.555 | 0.758 | 83.0                      | 0.949            | 1.141               |

**Note:** \* = Sensible equals total capacity



## Performance Data

### Cooling and Heating Capacities 1.5 tons

Table 35. Cooling capacities 1.5 tons (gross) - GEV/H018

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|-------|-----------|
| 45  | 2.9 | 20.9        | 16.6      | 0.79 | 0.59        | 22.9         | 60.6  | 8.1       |
| 45  | 3.6 | 21.0        | 16.6      | 0.79 | 0.54        | 22.8         | 57.6  | 11.8      |
| 45  | 4.1 | 21.0        | 16.7      | 0.79 | 0.52        | 22.8         | 56.0  | 14.8      |
| 45  | 4.5 | 21.1        | 16.7      | 0.79 | 0.51        | 22.8         | 55.0  | 17.3      |
| 45  | 4.7 | 21.1        | 16.7      | 0.79 | 0.50        | 22.8         | 54.6  | 18.7      |
| 45  | 5.0 | 21.1        | 16.7      | 0.79 | 0.49        | 22.8         | 54.0  | 20.8      |
| 45  | 5.4 | 21.1        | 16.7      | 0.79 | 0.48        | 22.8         | 53.4  | 23.8      |
| 55  | 2.9 | 20.2        | 16.3      | 0.81 | 0.76        | 22.8         | 70.5  | 7.8       |
| 55  | 3.6 | 20.3        | 16.3      | 0.80 | 0.72        | 22.8         | 67.5  | 11.3      |
| 55  | 4.1 | 20.4        | 16.4      | 0.80 | 0.69        | 22.8         | 65.9  | 14.2      |
| 55  | 4.5 | 20.4        | 16.4      | 0.80 | 0.68        | 22.7         | 65.0  | 16.7      |
| 55  | 4.7 | 20.4        | 16.4      | 0.80 | 0.67        | 22.7         | 64.5  | 18.0      |
| 55  | 5.0 | 20.4        | 16.4      | 0.80 | 0.67        | 22.7         | 64.0  | 20.0      |
| 55  | 5.4 | 20.5        | 16.4      | 0.80 | 0.66        | 22.7         | 63.3  | 22.9      |
| 68  | 2.9 | 19.2        | 15.9      | 0.82 | 0.95        | 22.5         | 83.2  | 7.2       |
| 68  | 3.6 | 19.4        | 15.9      | 0.82 | 0.92        | 22.5         | 80.3  | 10.4      |
| 68  | 4.1 | 19.4        | 15.9      | 0.82 | 0.90        | 22.5         | 78.8  | 13.1      |
| 68  | 4.5 | 19.4        | 15.9      | 0.82 | 0.89        | 22.5         | 77.8  | 15.4      |
| 68  | 4.7 | 19.5        | 16.0      | 0.82 | 0.88        | 22.5         | 77.4  | 16.6      |
| 68  | 5.0 | 19.5        | 15.9      | 0.82 | 0.88        | 22.5         | 76.8  | 18.5      |
| 68  | 5.4 | 19.5        | 16.0      | 0.82 | 0.87        | 22.5         | 76.2  | 21.1      |
| 75  | 2.9 | 19.1        | 15.7      | 0.82 | 1.02        | 22.6         | 90.3  | 7.0       |
| 75  | 3.6 | 19.3        | 15.8      | 0.82 | 0.98        | 22.6         | 87.4  | 10.2      |
| 75  | 4.1 | 19.3        | 15.8      | 0.82 | 0.96        | 22.6         | 85.9  | 12.8      |
| 75  | 4.5 | 19.3        | 15.8      | 0.82 | 0.95        | 22.6         | 84.9  | 15.0      |
| 75  | 4.7 | 19.4        | 15.8      | 0.82 | 0.95        | 22.6         | 84.5  | 16.2      |
| 75  | 5.0 | 19.4        | 15.8      | 0.82 | 0.94        | 22.6         | 83.9  | 18.0      |
| 75  | 5.4 | 19.4        | 15.8      | 0.82 | 0.93        | 22.6         | 83.3  | 20.6      |
| 86  | 2.9 | 18.4        | 15.4      | 0.83 | 1.16        | 22.4         | 101.2 | 6.8       |
| 86  | 3.6 | 18.6        | 15.5      | 0.83 | 1.13        | 22.4         | 98.3  | 9.9       |
| 86  | 4.1 | 18.6        | 15.5      | 0.83 | 1.12        | 22.4         | 96.8  | 12.3      |
| 86  | 4.5 | 18.7        | 15.5      | 0.83 | 1.11        | 22.4         | 95.8  | 14.5      |
| 86  | 4.7 | 18.7        | 15.5      | 0.83 | 1.10        | 22.4         | 95.4  | 15.6      |
| 86  | 5.0 | 18.7        | 15.5      | 0.83 | 1.10        | 22.5         | 94.8  | 17.4      |
| 86  | 5.4 | 18.7        | 15.5      | 0.83 | 1.09        | 22.5         | 94.2  | 19.9      |
| 95  | 2.9 | 17.5        | 14.9      | 0.85 | 1.29        | 21.9         | 109.8 | 6.6       |
| 95  | 3.6 | 17.7        | 15.0      | 0.85 | 1.26        | 22.0         | 107.0 | 9.6       |
| 95  | 4.1 | 17.7        | 15.1      | 0.85 | 1.25        | 22.0         | 105.5 | 12.0      |
| 95  | 4.5 | 17.8        | 15.1      | 0.85 | 1.24        | 22.0         | 104.6 | 14.1      |
| 95  | 4.7 | 17.8        | 15.1      | 0.85 | 1.23        | 22.0         | 104.2 | 15.2      |

**Table 35. Cooling capacities 1.5 tons (gross) - GEV/H018 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|-------|-----------|
| 95  | 5.0 | 17.8        | 15.1      | 0.85 | 1.23        | 22.0         | 103.7 | 16.9      |
| 95  | 5.4 | 17.9        | 15.1      | 0.85 | 1.22        | 22.0         | 103.0 | 19.4      |
| 105 | 2.9 | 16.2        | 14.4      | 0.89 | 1.42        | 21.0         | 119.2 | 6.3       |
| 105 | 3.6 | 16.4        | 14.5      | 0.88 | 1.40        | 21.2         | 116.5 | 9.2       |
| 105 | 4.1 | 16.6        | 14.5      | 0.88 | 1.38        | 21.3         | 115.2 | 11.6      |
| 105 | 4.5 | 16.7        | 14.6      | 0.87 | 1.38        | 21.3         | 114.3 | 13.7      |
| 105 | 4.7 | 16.7        | 14.6      | 0.87 | 1.37        | 21.4         | 113.9 | 14.8      |
| 105 | 5.0 | 16.7        | 14.6      | 0.87 | 1.37        | 21.4         | 113.4 | 16.5      |
| 105 | 5.4 | 16.8        | 14.6      | 0.87 | 1.36        | 21.4         | 112.8 | 18.9      |
| 115 | 2.9 | 14.9        | 13.8      | 0.92 | 1.56        | 20.3         | 128.6 | 6.1       |
| 115 | 3.6 | 15.2        | 13.9      | 0.92 | 1.54        | 20.4         | 126.1 | 9.0       |
| 115 | 4.1 | 15.3        | 14.0      | 0.91 | 1.53        | 20.5         | 124.8 | 11.3      |
| 115 | 4.5 | 15.4        | 14.0      | 0.91 | 1.52        | 20.5         | 123.9 | 13.3      |
| 115 | 4.7 | 15.4        | 14.0      | 0.91 | 1.52        | 20.6         | 123.5 | 14.4      |
| 115 | 5.0 | 15.4        | 14.0      | 0.91 | 1.51        | 20.6         | 123.0 | 16.1      |
| 115 | 5.4 | 15.5        | 14.0      | 0.91 | 1.51        | 20.6         | 122.5 | 18.4      |
| 120 | 2.9 | 14.2        | 13.5      | 0.95 | 1.63        | 19.8         | 133.2 | 6.1       |
| 120 | 3.6 | 14.4        | 13.6      | 0.94 | 1.61        | 19.9         | 130.8 | 8.9       |
| 120 | 4.1 | 14.6        | 13.6      | 0.94 | 1.60        | 20.0         | 129.5 | 11.2      |
| 120 | 4.5 | 14.6        | 13.7      | 0.93 | 1.59        | 20.1         | 128.7 | 13.2      |
| 120 | 4.7 | 14.7        | 13.7      | 0.93 | 1.59        | 20.1         | 128.3 | 14.2      |
| 120 | 5.0 | 14.7        | 13.7      | 0.93 | 1.59        | 20.1         | 127.8 | 15.9      |
| 120 | 5.4 | 14.8        | 13.7      | 0.93 | 1.58        | 20.1         | 127.3 | 18.2      |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 4.5; Minimum CFM 456; Rated CFM 570; Maximum CFM 684.

**Table 36. Heating capacities 1.5 tons (gross) - GEV/H018**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 25  | 2.9 | 12.2          | 8.8          | 0.99        | 17.8 | 10.9      |
| 25  | 3.6 | 12.5          | 9.1          | 1.00        | 19.0 | 15.9      |
| 25  | 4.1 | 12.6          | 9.2          | 1.00        | 19.7 | 19.9      |
| 25  | 4.5 | 12.7          | 9.3          | 1.01        | 20.1 | 23.4      |
| 25  | 4.7 | 12.8          | 9.3          | 1.01        | 20.3 | 25.2      |
| 25  | 5.0 | 12.8          | 9.4          | 1.01        | 20.6 | 28.1      |
| 25  | 5.4 | 12.9          | 9.4          | 1.01        | 20.9 | 32.1      |
| 32  | 2.9 | 13.6          | 10.1         | 1.03        | 23.8 | 10.6      |
| 32  | 3.6 | 13.9          | 10.4         | 1.04        | 25.3 | 15.4      |
| 32  | 4.1 | 14.1          | 10.5         | 1.05        | 26.0 | 19.3      |
| 32  | 4.5 | 14.2          | 10.6         | 1.05        | 26.5 | 22.7      |
| 32  | 4.7 | 14.3          | 10.7         | 1.05        | 26.7 | 24.5      |
| 32  | 5.0 | 14.3          | 10.7         | 1.05        | 27.0 | 27.3      |



## Performance Data

**Table 36. Heating capacities 1.5 tons (gross) - GEV/H018 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 32  | 5.4 | 14.4          | 10.8         | 1.06        | 27.3 | 31.2      |
| 45  | 2.9 | 16.7          | 12.9         | 1.13        | 35.7 | 8.1       |
| 45  | 3.6 | 17.1          | 13.3         | 1.13        | 37.3 | 11.8      |
| 45  | 4.1 | 17.3          | 13.4         | 1.14        | 38.1 | 14.8      |
| 45  | 4.5 | 17.5          | 13.6         | 1.14        | 38.7 | 17.3      |
| 45  | 4.7 | 17.5          | 13.6         | 1.14        | 38.9 | 18.7      |
| 45  | 5.0 | 17.6          | 13.7         | 1.15        | 39.2 | 20.8      |
| 45  | 5.4 | 17.7          | 13.8         | 1.15        | 39.6 | 23.8      |
| 55  | 2.9 | 19.0          | 15.0         | 1.18        | 44.1 | 7.8       |
| 55  | 3.6 | 19.5          | 15.5         | 1.19        | 46.0 | 11.3      |
| 55  | 4.1 | 19.8          | 15.7         | 1.19        | 47.0 | 14.2      |
| 55  | 4.5 | 19.9          | 15.8         | 1.20        | 47.6 | 16.7      |
| 55  | 4.7 | 20.0          | 15.9         | 1.20        | 47.9 | 18.0      |
| 55  | 5.0 | 20.1          | 16.0         | 1.20        | 48.3 | 20.0      |
| 55  | 5.4 | 20.2          | 16.1         | 1.20        | 48.8 | 22.9      |
| 68  | 2.9 | 22.3          | 18.1         | 1.25        | 55.1 | 7.2       |
| 68  | 3.6 | 22.9          | 18.6         | 1.26        | 57.3 | 10.4      |
| 68  | 4.1 | 23.2          | 18.9         | 1.26        | 58.4 | 13.1      |
| 68  | 4.5 | 23.4          | 19.1         | 1.27        | 59.2 | 15.4      |
| 68  | 4.7 | 23.4          | 19.1         | 1.27        | 59.5 | 16.6      |
| 68  | 5.0 | 23.6          | 19.2         | 1.27        | 60.0 | 18.5      |
| 68  | 5.4 | 23.7          | 19.3         | 1.27        | 60.6 | 21.1      |
| 75  | 2.9 | 24.0          | 19.7         | 1.28        | 60.9 | 7.0       |
| 75  | 3.6 | 24.6          | 20.2         | 1.28        | 63.3 | 10.2      |
| 75  | 4.1 | 24.9          | 20.5         | 1.29        | 64.5 | 12.8      |
| 75  | 4.5 | 25.1          | 20.7         | 1.29        | 65.4 | 15.0      |
| 75  | 4.7 | 25.2          | 20.8         | 1.29        | 65.7 | 16.2      |
| 75  | 5.0 | 25.3          | 20.9         | 1.29        | 66.2 | 18.0      |
| 75  | 5.4 | 25.4          | 21.0         | 1.29        | 66.8 | 20.6      |
| 86  | 2.9 | 26.6          | 22.1         | 1.31        | 69.9 | 6.8       |
| 86  | 3.6 | 27.2          | 22.7         | 1.32        | 72.6 | 9.9       |
| 86  | 4.1 | 27.5          | 23.0         | 1.32        | 74.1 | 12.3      |
| 86  | 4.5 | 27.7          | 23.2         | 1.32        | 75.0 | 14.5      |
| 86  | 4.7 | 27.8          | 23.3         | 1.32        | 75.4 | 15.6      |
| 86  | 5.0 | 27.9          | 23.4         | 1.32        | 76.0 | 17.4      |
| 86  | 5.4 | 28.0          | 23.5         | 1.32        | 76.7 | 19.9      |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 4.5; Minimum CFM 456; Rated CFM 570; Maximum CFM 684.



**Table 37. Fan correction factors 1.5 tons - GEV/H018**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 456          | 0.958            | 0.875             | 1.005               | 0.973            | 1.087               |
| 485          | 0.970            | 0.907             | 1.004               | 0.982            | 1.062               |
| 513          | 0.981            | 0.937             | 1.002               | 0.989            | 1.040               |
| 542          | 0.991            | 0.968             | 1.001               | 0.995            | 1.019               |
| 570          | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 627          | 1.017            | 1.058             | 0.997               | 1.008            | 0.966               |
| 656          | 1.025            | 1.089             | 0.996               | 1.012            | 0.950               |
| 684          | 1.031            | 1.118             | 0.995               | 1.015            | 0.936               |

**Table 38. Correction factors for variation in entering air temperature 1.5 tons, GEV/H018**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.897               | 1.011                  | 0.888                                      | 0.950 | 1.013 | 1.078 | 1.146 | 53.0                            | 1.038               | 0.830                  |
| 56.3                            | 0.898               | 1.010                  | 0.787                                      | 0.985 | 1.015 | 1.080 | 1.146 | 58.0                            | 1.028               | 0.891                  |
| 60.3                            | 0.901               | 1.010                  | 0.631                                      | 0.832 | 1.029 | 1.084 | 1.147 | 63.0                            | 1.015               | 0.946                  |
| 63.2                            | 0.944               | 1.006                  | 0.515                                      | 0.717 | 0.917 | 1.115 | 1.144 | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                  | 0.394                                      | 0.597 | 0.799 | 1.000 | 1.197 | 73.0                            | 0.984               | 1.051                  |
| 72.1                            | 1.122               | 0.980                  | —                                          | —     | 0.558 | 0.761 | 0.964 | 78.0                            | 0.965               | 1.101                  |
| 77.1                            | 1.222               | 0.947                  | —                                          | —     | —     | 0.548 | 0.752 | 83.0                            | 0.945               | 1.148                  |

Note: \* = Sensible equals total capacity

## Cooling and Heating Capacities 2 tons

**Table 39. Cooling capacities 2 tons (gross) - GEV/H024**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT  | Feet Head |
|-----|-----|-------------|-----------|------|----------|--------------|------|-----------|
| 45  | 3.9 | 28.7        | 22.3      | 0.78 | 0.83     | 31.5         | 60.9 | 3.3       |
| 45  | 4.8 | 28.8        | 22.3      | 0.77 | 0.79     | 31.5         | 58.0 | 4.8       |
| 45  | 5.4 | 28.9        | 22.4      | 0.77 | 0.78     | 31.5         | 56.5 | 5.9       |
| 45  | 6.0 | 28.9        | 22.4      | 0.77 | 0.77     | 31.6         | 55.4 | 7.0       |
| 45  | 6.3 | 29.0        | 22.4      | 0.77 | 0.76     | 31.6         | 54.9 | 7.7       |
| 45  | 6.6 | 29.0        | 22.4      | 0.77 | 0.76     | 31.6         | 54.4 | 8.3       |
| 45  | 7.2 | 29.0        | 22.4      | 0.77 | 0.75     | 31.6         | 53.7 | 9.7       |
| 55  | 3.9 | 27.8        | 21.8      | 0.78 | 0.97     | 31.1         | 70.7 | 3.2       |
| 55  | 4.8 | 27.9        | 21.8      | 0.78 | 0.93     | 31.1         | 67.8 | 4.6       |
| 55  | 5.4 | 28.0        | 21.9      | 0.78 | 0.91     | 31.1         | 66.4 | 5.6       |
| 55  | 6.0 | 28.0        | 21.9      | 0.78 | 0.90     | 31.1         | 65.2 | 6.8       |
| 55  | 6.3 | 28.1        | 21.9      | 0.78 | 0.89     | 31.1         | 64.8 | 7.4       |
| 55  | 6.6 | 28.1        | 21.9      | 0.78 | 0.89     | 31.1         | 64.3 | 8.0       |
| 55  | 7.2 | 28.1        | 21.9      | 0.78 | 0.88     | 31.1         | 63.5 | 9.3       |
| 68  | 3.9 | 26.7        | 21.2      | 0.79 | 1.18     | 30.7         | 83.5 | 3.0       |
| 68  | 4.8 | 26.8        | 21.2      | 0.79 | 1.14     | 30.7         | 80.6 | 4.3       |
| 68  | 5.4 | 26.8        | 21.2      | 0.79 | 1.12     | 30.7         | 79.2 | 5.2       |

**Table 39. Cooling capacities 2 tons (gross) - GEV/H024 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|----------|--------------|-------|-----------|
| 68  | 6.0 | 26.9        | 21.3      | 0.79 | 1.10     | 30.7         | 78.1  | 6.3       |
| 68  | 6.3 | 26.9        | 21.3      | 0.79 | 1.10     | 30.6         | 77.6  | 6.9       |
| 68  | 6.6 | 26.9        | 21.3      | 0.79 | 1.09     | 30.6         | 77.2  | 7.4       |
| 68  | 7.2 | 26.9        | 21.3      | 0.79 | 1.08     | 30.6         | 76.4  | 8.6       |
| 75  | 3.9 | 26.3        | 21.1      | 0.80 | 1.29     | 30.7         | 90.5  | 2.9       |
| 75  | 4.8 | 26.4        | 21.1      | 0.80 | 1.25     | 30.6         | 87.6  | 4.2       |
| 75  | 5.4 | 26.4        | 21.2      | 0.80 | 1.22     | 30.6         | 86.2  | 5.1       |
| 75  | 6.0 | 26.5        | 21.2      | 0.80 | 1.21     | 30.6         | 85.0  | 6.1       |
| 75  | 6.3 | 26.5        | 21.2      | 0.80 | 1.20     | 30.6         | 84.6  | 6.7       |
| 75  | 6.6 | 26.5        | 21.2      | 0.80 | 1.19     | 30.6         | 84.1  | 7.3       |
| 75  | 7.2 | 26.5        | 21.2      | 0.80 | 1.18     | 30.6         | 83.4  | 8.4       |
| 86  | 3.9 | 25.3        | 20.6      | 0.82 | 1.51     | 30.4         | 101.3 | 2.8       |
| 86  | 4.8 | 25.4        | 20.7      | 0.81 | 1.46     | 30.4         | 98.4  | 4.0       |
| 86  | 5.4 | 25.4        | 20.7      | 0.81 | 1.44     | 30.3         | 97.0  | 4.9       |
| 86  | 6.0 | 25.5        | 20.7      | 0.81 | 1.42     | 30.3         | 95.9  | 5.9       |
| 86  | 6.3 | 25.5        | 20.7      | 0.81 | 1.41     | 30.3         | 95.4  | 6.5       |
| 86  | 6.6 | 25.5        | 20.7      | 0.81 | 1.40     | 30.3         | 95.0  | 7.0       |
| 86  | 7.2 | 25.5        | 20.8      | 0.81 | 1.39     | 30.3         | 94.2  | 8.1       |
| 95  | 3.9 | 24.3        | 20.2      | 0.83 | 1.71     | 30.2         | 110.1 | 2.7       |
| 95  | 4.8 | 24.4        | 20.2      | 0.83 | 1.66     | 30.1         | 107.3 | 3.9       |
| 95  | 5.4 | 24.5        | 20.3      | 0.83 | 1.64     | 30.1         | 105.9 | 4.8       |
| 95  | 6.0 | 24.5        | 20.3      | 0.83 | 1.62     | 30.1         | 104.8 | 5.8       |
| 95  | 6.3 | 24.6        | 20.3      | 0.83 | 1.61     | 30.1         | 104.3 | 6.3       |
| 95  | 6.6 | 24.6        | 20.3      | 0.83 | 1.61     | 30.1         | 103.9 | 6.8       |
| 95  | 7.2 | 24.6        | 20.3      | 0.83 | 1.59     | 30.0         | 103.2 | 7.9       |
| 105 | 3.9 | 23.2        | 19.6      | 0.85 | 1.97     | 29.9         | 120.0 | 2.7       |
| 105 | 4.8 | 23.3        | 19.7      | 0.84 | 1.91     | 29.8         | 117.1 | 3.8       |
| 105 | 5.4 | 23.4        | 19.7      | 0.84 | 1.89     | 29.8         | 115.8 | 4.7       |
| 105 | 6.0 | 23.4        | 19.7      | 0.84 | 1.87     | 29.8         | 114.7 | 5.6       |
| 105 | 6.3 | 23.4        | 19.7      | 0.84 | 1.86     | 29.8         | 114.2 | 6.1       |
| 105 | 6.6 | 23.4        | 19.8      | 0.84 | 1.85     | 29.8         | 113.8 | 6.6       |
| 105 | 7.2 | 23.5        | 19.8      | 0.84 | 1.84     | 29.8         | 113.1 | 7.7       |
| 115 | 3.9 | 22.0        | 19.1      | 0.87 | 2.24     | 29.6         | 129.8 | 2.6       |
| 115 | 4.8 | 22.1        | 19.1      | 0.87 | 2.19     | 29.5         | 127.0 | 3.7       |
| 115 | 5.4 | 22.1        | 19.1      | 0.86 | 2.16     | 29.5         | 125.7 | 4.5       |
| 115 | 6.0 | 22.2        | 19.2      | 0.86 | 2.14     | 29.5         | 124.6 | 5.5       |
| 115 | 6.3 | 22.2        | 19.2      | 0.86 | 2.13     | 29.5         | 124.1 | 5.9       |
| 115 | 6.6 | 22.2        | 19.2      | 0.86 | 2.12     | 29.5         | 123.7 | 6.4       |
| 115 | 7.2 | 22.2        | 19.2      | 0.86 | 2.11     | 29.4         | 123.0 | 7.5       |
| 120 | 3.9 | 21.3        | 18.8      | 0.88 | 2.38     | 29.4         | 134.7 | 2.6       |
| 120 | 4.8 | 21.4        | 18.8      | 0.88 | 2.33     | 29.4         | 131.9 | 3.7       |

**Table 39. Cooling capacities 2 tons (gross) - GEV/H024 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|----------|--------------|-------|-----------|
| 120 | 5.4 | 21.5        | 18.8      | 0.88 | 2.30     | 29.3         | 130.6 | 4.5       |
| 120 | 6.0 | 21.5        | 18.8      | 0.88 | 2.28     | 29.3         | 129.5 | 5.4       |
| 120 | 6.3 | 21.5        | 18.9      | 0.88 | 2.28     | 29.3         | 129.1 | 5.8       |
| 120 | 6.6 | 21.5        | 18.9      | 0.88 | 2.27     | 29.3         | 128.6 | 6.3       |
| 120 | 7.2 | 21.6        | 18.9      | 0.87 | 2.25     | 29.3         | 127.9 | 7.4       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation of data is permissible; extrapolation is not. Rated GPM: 5.6 Minimum cfm 608; Rated cfm 760; Maximum cfm 912.

**Table 40. Heating capacities 2 tons (gross) - GEV/H024**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|----------|------|-----------|
| 25  | 3.9 | 15.9          | 11.1         | 1.39     | 18.3 | 4.3       |
| 25  | 4.8 | 16.2          | 11.4         | 1.40     | 19.4 | 6.2       |
| 25  | 5.4 | 16.3          | 11.6         | 1.40     | 20.0 | 7.6       |
| 25  | 6.0 | 16.5          | 11.7         | 1.41     | 20.4 | 9.1       |
| 25  | 6.3 | 16.5          | 11.7         | 1.41     | 20.6 | 9.9       |
| 25  | 6.6 | 16.6          | 11.8         | 1.41     | 20.8 | 10.8      |
| 25  | 7.2 | 16.7          | 11.9         | 1.41     | 21.1 | 12.5      |
| 32  | 3.9 | 17.6          | 12.7         | 1.43     | 24.4 | 4.2       |
| 32  | 4.8 | 18.0          | 13.1         | 1.44     | 25.7 | 6.0       |
| 32  | 5.4 | 18.2          | 13.3         | 1.44     | 26.3 | 7.4       |
| 32  | 6.0 | 18.3          | 13.4         | 1.45     | 26.8 | 8.9       |
| 32  | 6.3 | 18.4          | 13.5         | 1.45     | 27.0 | 9.6       |
| 32  | 6.6 | 18.5          | 13.5         | 1.45     | 27.2 | 10.5      |
| 32  | 7.2 | 18.6          | 13.6         | 1.45     | 27.6 | 12.2      |
| 45  | 3.9 | 22.4          | 17.1         | 1.53     | 35.8 | 3.3       |
| 45  | 4.8 | 22.9          | 17.6         | 1.54     | 37.3 | 4.8       |
| 45  | 5.4 | 23.2          | 17.9         | 1.55     | 38.1 | 5.9       |
| 45  | 6.0 | 23.4          | 18.1         | 1.55     | 38.7 | 7.0       |
| 45  | 6.3 | 23.5          | 18.2         | 1.55     | 39.0 | 7.7       |
| 45  | 6.6 | 23.6          | 18.2         | 1.56     | 39.2 | 8.3       |
| 45  | 7.2 | 23.7          | 18.4         | 1.56     | 39.7 | 9.7       |
| 55  | 3.9 | 25.3          | 19.9         | 1.59     | 44.3 | 3.2       |
| 55  | 4.8 | 25.9          | 20.5         | 1.60     | 46.1 | 4.6       |
| 55  | 5.4 | 26.3          | 20.8         | 1.60     | 47.0 | 5.6       |
| 55  | 6.0 | 26.5          | 21.0         | 1.61     | 47.7 | 6.8       |
| 55  | 6.3 | 26.6          | 21.1         | 1.61     | 48.0 | 7.4       |
| 55  | 6.6 | 26.7          | 21.2         | 1.61     | 48.3 | 8.0       |
| 55  | 7.2 | 26.9          | 21.4         | 1.61     | 48.8 | 9.3       |
| 68  | 3.9 | 28.4          | 22.8         | 1.65     | 55.8 | 3.0       |
| 68  | 4.8 | 29.1          | 23.4         | 1.67     | 57.8 | 4.3       |
| 68  | 5.4 | 29.5          | 23.8         | 1.67     | 58.8 | 5.2       |



## Performance Data

**Table 40. Heating capacities 2 tons (gross) - GEV/H024 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|----------|------|-----------|
| 68  | 6.0 | 29.8          | 24.1         | 1.68     | 59.6 | 6.3       |
| 68  | 6.3 | 29.9          | 24.2         | 1.68     | 59.9 | 6.9       |
| 68  | 6.6 | 30.1          | 24.3         | 1.68     | 60.3 | 7.4       |
| 68  | 7.2 | 30.3          | 24.5         | 1.69     | 60.9 | 8.6       |
| 75  | 3.9 | 30.6          | 24.8         | 1.69     | 61.7 | 2.9       |
| 75  | 4.8 | 31.4          | 25.5         | 1.70     | 63.8 | 4.2       |
| 75  | 5.4 | 31.8          | 25.9         | 1.71     | 64.9 | 5.1       |
| 75  | 6.0 | 32.1          | 26.2         | 1.71     | 65.8 | 6.1       |
| 75  | 6.3 | 32.2          | 26.4         | 1.72     | 66.2 | 6.7       |
| 75  | 6.6 | 32.4          | 26.5         | 1.72     | 66.5 | 7.3       |
| 75  | 7.2 | 32.6          | 26.7         | 1.72     | 67.2 | 8.4       |
| 86  | 3.9 | 33.9          | 27.9         | 1.74     | 70.8 | 2.8       |
| 86  | 4.8 | 34.7          | 28.7         | 1.75     | 73.3 | 4.0       |
| 86  | 5.4 | 35.1          | 29.1         | 1.76     | 74.5 | 4.9       |
| 86  | 6.0 | 35.5          | 29.5         | 1.76     | 75.6 | 5.9       |
| 86  | 6.3 | 35.6          | 29.6         | 1.76     | 76.0 | 6.5       |
| 86  | 6.6 | 35.8          | 29.7         | 1.77     | 76.4 | 7.0       |
| 86  | 7.2 | 36.0          | 30.0         | 1.77     | 77.1 | 8.1       |

**Note:** Heating performance data is tabulated at 68°F DB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation of data is permissible; extrapolation is not. Rated GPM: 5.6 Minimum cfm 608; Rated cfm 760; Maximum cfm 912.

**Table 41. Fan correction factors 2 tons - GEV/H024**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 608          | 0.960            | 0.882             | 1.007               | 0.989            | 1.109               |
| 646          | 0.971            | 0.912             | 1.005               | 0.993            | 1.077               |
| 684          | 0.982            | 0.942             | 1.003               | 0.995            | 1.048               |
| 722          | 0.991            | 0.971             | 1.002               | 0.998            | 1.023               |
| 760          | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 836          | 1.015            | 1.058             | 0.997               | 1.004            | 0.961               |
| 874          | 1.022            | 1.087             | 0.996               | 1.005            | 0.944               |
| 912          | 1.028            | 1.115             | 0.995               | 1.006            | 0.929               |

**Table 42. Correction factors for variation in entering air temperature 2 tons, GEV/H024**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.909               | 1.015                  | 0.931                                      | 0.992 | 1.054 | 1.118 | 1.184 | 53.0                            | 1.026               | 0.823                  |
| 56.3                            | 0.910               | 1.015                  | 0.800                                      | 0.996 | 1.056 | 1.119 | 1.184 | 58.0                            | 1.018               | 0.879                  |
| 60.3                            | 0.915               | 1.014                  | 0.644                                      | 0.841 | 1.036 | 1.125 | 1.185 | 63.0                            | 1.009               | 0.939                  |
| 63.2                            | 0.951               | 1.008                  | 0.526                                      | 0.728 | 0.923 | 1.119 | 1.189 | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                  | 0.403                                      | 0.605 | 0.805 | 1.000 | 1.197 | 73.0                            | 0.991               | 1.064                  |
| 72.1                            | 1.104               | 0.983                  | —                                          | —     | 0.562 | 0.764 | 0.961 | 78.0                            | 0.981               | 1.130                  |

**Table 42. Correction factors for variation in entering air temperature 2 tons, GEV/H024 (continued)**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |      |      |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|------|------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6 | 75.6 | 80.6  | 85.6  |                                 |                     |                        |
| 77.1                            | 1.202               | 0.965                  | —                                          | —    | —    | 0.552 | 0.756 | 83.0                            | 0.971               | 1.198                  |

Note: \* = Sensible equals total capacity

## Cooling and Heating Capacities 2.5 tons

**Table 43. Cooling capacities 2.5 tons (gross) - GEV/H030**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|-------|-----------|
| 45  | 4.9 | 33.5        | 27.3      | 0.81 | 1.04        | 37.1         | 60.2  | 5.0       |
| 45  | 6.0 | 33.6        | 27.4      | 0.81 | 1.01        | 37.1         | 57.4  | 7.1       |
| 45  | 6.8 | 33.7        | 27.4      | 0.81 | 0.99        | 37.1         | 55.9  | 8.8       |
| 45  | 7.5 | 33.8        | 27.4      | 0.81 | 0.98        | 37.1         | 54.9  | 10.4      |
| 45  | 7.9 | 33.8        | 27.4      | 0.81 | 0.97        | 37.1         | 54.4  | 11.4      |
| 45  | 8.3 | 33.8        | 27.5      | 0.81 | 0.96        | 37.1         | 54.0  | 12.4      |
| 45  | 9.0 | 33.9        | 27.5      | 0.81 | 0.95        | 37.1         | 53.3  | 14.3      |
| 55  | 4.9 | 32.5        | 26.7      | 0.82 | 1.21        | 36.6         | 70.0  | 4.8       |
| 55  | 6.0 | 32.6        | 26.8      | 0.82 | 1.17        | 36.6         | 67.2  | 6.8       |
| 55  | 6.8 | 32.7        | 26.8      | 0.82 | 1.15        | 36.6         | 65.8  | 8.4       |
| 55  | 7.5 | 32.7        | 26.8      | 0.82 | 1.13        | 36.6         | 64.8  | 10.0      |
| 55  | 7.9 | 32.7        | 26.8      | 0.82 | 1.13        | 36.6         | 64.3  | 10.9      |
| 55  | 8.3 | 32.7        | 26.9      | 0.82 | 1.12        | 36.6         | 63.8  | 11.9      |
| 55  | 9.0 | 32.8        | 26.9      | 0.82 | 1.11        | 36.6         | 63.1  | 13.7      |
| 68  | 4.9 | 31.1        | 25.9      | 0.83 | 1.44        | 36.0         | 82.7  | 4.4       |
| 68  | 6.0 | 31.2        | 26.0      | 0.83 | 1.40        | 36.0         | 80.0  | 6.3       |
| 68  | 6.8 | 31.2        | 26.0      | 0.83 | 1.38        | 36.0         | 78.6  | 7.8       |
| 68  | 7.5 | 31.3        | 26.1      | 0.83 | 1.36        | 35.9         | 77.6  | 9.3       |
| 68  | 7.9 | 31.3        | 26.1      | 0.83 | 1.36        | 35.9         | 77.1  | 10.2      |
| 68  | 8.3 | 31.3        | 26.1      | 0.83 | 1.35        | 35.9         | 76.7  | 11.1      |
| 68  | 9.0 | 31.4        | 26.1      | 0.83 | 1.34        | 35.9         | 76.0  | 12.8      |
| 75  | 4.9 | 30.7        | 25.8      | 0.84 | 1.56        | 36.0         | 89.7  | 4.3       |
| 75  | 6.0 | 30.8        | 25.9      | 0.84 | 1.51        | 36.0         | 87.0  | 6.2       |
| 75  | 6.8 | 30.9        | 25.9      | 0.84 | 1.49        | 36.0         | 85.6  | 7.7       |
| 75  | 7.5 | 30.9        | 25.9      | 0.84 | 1.47        | 35.9         | 84.6  | 9.1       |
| 75  | 7.9 | 30.9        | 25.9      | 0.84 | 1.46        | 35.9         | 84.1  | 9.9       |
| 75  | 8.3 | 31.0        | 25.9      | 0.84 | 1.46        | 35.9         | 83.7  | 10.8      |
| 75  | 9.0 | 31.0        | 25.9      | 0.84 | 1.45        | 35.9         | 83.0  | 12.5      |
| 86  | 4.9 | 29.8        | 25.1      | 0.84 | 1.81        | 36.0         | 100.6 | 4.2       |
| 86  | 6.0 | 29.9        | 25.1      | 0.84 | 1.76        | 35.9         | 97.9  | 5.9       |
| 86  | 6.8 | 30.0        | 25.1      | 0.84 | 1.73        | 35.9         | 96.5  | 7.4       |
| 86  | 7.5 | 30.0        | 25.2      | 0.84 | 1.71        | 35.9         | 95.5  | 8.8       |
| 86  | 7.9 | 30.0        | 25.2      | 0.84 | 1.70        | 35.8         | 95.0  | 9.6       |
| 86  | 8.3 | 30.0        | 25.2      | 0.84 | 1.70        | 35.8         | 94.6  | 10.4      |



## Performance Data

**Table 43. Cooling capacities 2.5 tons (gross) - GEV/H030 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|-------|-----------|
| 86  | 9.0 | 30.1        | 25.2      | 0.84 | 1.68        | 35.8         | 93.9  | 12.0      |
| 95  | 4.9 | 28.7        | 24.5      | 0.86 | 2.04        | 35.6         | 109.5 | 4.1       |
| 95  | 6.0 | 28.8        | 24.6      | 0.85 | 1.99        | 35.6         | 106.8 | 5.8       |
| 95  | 6.8 | 28.9        | 24.6      | 0.85 | 1.96        | 35.5         | 105.4 | 7.2       |
| 95  | 7.5 | 28.9        | 24.6      | 0.85 | 1.94        | 35.5         | 104.4 | 8.5       |
| 95  | 7.9 | 28.9        | 24.6      | 0.85 | 1.93        | 35.5         | 103.9 | 9.3       |
| 95  | 8.3 | 28.9        | 24.6      | 0.85 | 1.92        | 35.5         | 103.5 | 10.2      |
| 95  | 9.0 | 29.0        | 24.7      | 0.85 | 1.91        | 35.5         | 102.8 | 11.7      |
| 105 | 4.9 | 27.3        | 23.9      | 0.87 | 2.33        | 35.3         | 119.3 | 4.0       |
| 105 | 6.0 | 27.4        | 23.9      | 0.87 | 2.27        | 35.2         | 116.7 | 5.6       |
| 105 | 6.8 | 27.5        | 24.0      | 0.87 | 2.24        | 35.2         | 115.3 | 7.0       |
| 105 | 7.5 | 27.6        | 24.0      | 0.87 | 2.22        | 35.1         | 114.3 | 8.3       |
| 105 | 7.9 | 27.6        | 24.0      | 0.87 | 2.21        | 35.1         | 113.8 | 9.1       |
| 105 | 8.3 | 27.6        | 24.0      | 0.87 | 2.20        | 35.1         | 113.4 | 9.9       |
| 105 | 9.0 | 27.6        | 24.0      | 0.87 | 2.19        | 35.1         | 112.7 | 11.4      |
| 115 | 4.9 | 25.8        | 23.2      | 0.90 | 2.64        | 34.9         | 129.1 | 3.9       |
| 115 | 6.0 | 26.0        | 23.2      | 0.89 | 2.59        | 34.8         | 126.5 | 5.5       |
| 115 | 6.8 | 26.0        | 23.3      | 0.89 | 2.56        | 34.8         | 125.1 | 6.8       |
| 115 | 7.5 | 26.1        | 23.3      | 0.89 | 2.54        | 34.7         | 124.2 | 8.0       |
| 115 | 7.9 | 26.1        | 23.3      | 0.89 | 2.53        | 34.7         | 123.7 | 8.8       |
| 115 | 8.3 | 26.1        | 23.3      | 0.89 | 2.52        | 34.7         | 123.3 | 9.6       |
| 115 | 9.0 | 26.2        | 23.3      | 0.89 | 2.50        | 34.7         | 122.7 | 11.0      |
| 120 | 4.9 | 25.1        | 22.8      | 0.91 | 2.81        | 34.6         | 134.0 | 3.8       |
| 120 | 6.0 | 25.2        | 22.9      | 0.91 | 2.75        | 34.6         | 131.4 | 5.4       |
| 120 | 6.8 | 25.3        | 22.9      | 0.91 | 2.73        | 34.5         | 130.1 | 6.7       |
| 120 | 7.5 | 25.3        | 22.9      | 0.91 | 2.70        | 34.5         | 129.1 | 7.9       |
| 120 | 7.9 | 25.3        | 22.9      | 0.91 | 2.69        | 34.5         | 128.7 | 8.7       |
| 120 | 8.3 | 25.3        | 22.9      | 0.91 | 2.69        | 34.5         | 128.2 | 9.4       |
| 120 | 9.0 | 25.4        | 23.0      | 0.90 | 2.67        | 34.5         | 127.6 | 10.9      |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 7.5; Minimum CFM 760; Rated CFM 950; Maximum CFM 1140.

**Table 44. Heating capacities 2.5 tons (gross) - GEV/H030**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 25  | 4.9 | 18.8          | 13.2         | 1.65        | 18.6 | 6.4       |
| 25  | 6.0 | 19.2          | 13.5         | 1.66        | 19.7 | 9.1       |
| 25  | 6.8 | 19.4          | 13.7         | 1.66        | 20.2 | 11.4      |
| 25  | 7.5 | 19.5          | 13.8         | 1.67        | 20.7 | 13.5      |
| 25  | 7.9 | 19.6          | 13.9         | 1.67        | 20.9 | 14.8      |
| 25  | 8.3 | 19.6          | 13.9         | 1.67        | 21.0 | 16.1      |
| 25  | 9.0 | 19.7          | 14.0         | 1.67        | 21.3 | 18.5      |
| 32  | 4.9 | 21.0          | 15.2         | 1.70        | 24.8 | 6.2       |

**Table 44. Heating capacities 2.5 tons (gross) - GEV/H030 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 32  | 6.0 | 21.4          | 15.5         | 1.70        | 26.0 | 8.9       |
| 32  | 6.8 | 21.6          | 15.8         | 1.71        | 26.6 | 11.0      |
| 32  | 7.5 | 21.7          | 15.9         | 1.71        | 27.1 | 13.1      |
| 32  | 7.9 | 21.8          | 16.0         | 1.71        | 27.3 | 14.3      |
| 32  | 8.3 | 21.9          | 16.0         | 1.71        | 27.5 | 15.6      |
| 32  | 9.0 | 22.0          | 16.1         | 1.72        | 27.8 | 18.0      |
| 45  | 4.9 | 25.5          | 19.4         | 1.79        | 36.6 | 5.0       |
| 45  | 6.0 | 26.1          | 19.9         | 1.81        | 38.0 | 7.1       |
| 45  | 6.8 | 26.4          | 20.2         | 1.81        | 38.7 | 8.8       |
| 45  | 7.5 | 26.6          | 20.4         | 1.82        | 39.3 | 10.4      |
| 45  | 7.9 | 26.7          | 20.5         | 1.82        | 39.5 | 11.4      |
| 45  | 8.3 | 26.8          | 20.6         | 1.82        | 39.8 | 12.4      |
| 45  | 9.0 | 27.0          | 20.8         | 1.82        | 40.1 | 14.3      |
| 55  | 4.9 | 29.1          | 22.7         | 1.86        | 45.2 | 4.8       |
| 55  | 6.0 | 29.8          | 23.4         | 1.87        | 46.8 | 6.8       |
| 55  | 6.8 | 30.1          | 23.7         | 1.88        | 47.7 | 8.4       |
| 55  | 7.5 | 30.4          | 24.0         | 1.88        | 48.3 | 10.0      |
| 55  | 7.9 | 30.5          | 24.1         | 1.88        | 48.6 | 10.9      |
| 55  | 8.3 | 30.6          | 24.2         | 1.89        | 48.9 | 11.9      |
| 55  | 9.0 | 30.8          | 24.4         | 1.89        | 49.3 | 13.7      |
| 68  | 4.9 | 33.9          | 27.1         | 1.99        | 56.5 | 4.4       |
| 68  | 6.0 | 34.7          | 27.9         | 2.00        | 58.3 | 6.3       |
| 68  | 6.8 | 35.2          | 28.3         | 2.01        | 59.3 | 7.8       |
| 68  | 7.5 | 35.5          | 28.6         | 2.01        | 60.0 | 9.3       |
| 68  | 7.9 | 35.7          | 28.8         | 2.02        | 60.4 | 10.2      |
| 68  | 8.3 | 35.8          | 28.9         | 2.02        | 60.7 | 11.1      |
| 68  | 9.0 | 36.0          | 29.1         | 2.02        | 61.2 | 12.8      |
| 75  | 4.9 | 36.5          | 29.6         | 2.03        | 62.4 | 4.3       |
| 75  | 6.0 | 37.4          | 30.4         | 2.04        | 64.4 | 6.2       |
| 75  | 6.8 | 37.9          | 30.9         | 2.05        | 65.5 | 7.7       |
| 75  | 7.5 | 38.2          | 31.2         | 2.05        | 66.3 | 9.1       |
| 75  | 7.9 | 38.4          | 31.4         | 2.06        | 66.7 | 9.9       |
| 75  | 8.3 | 38.5          | 31.5         | 2.06        | 67.0 | 10.8      |
| 75  | 9.0 | 38.8          | 31.7         | 2.06        | 67.6 | 12.5      |
| 86  | 4.9 | 40.4          | 33.3         | 2.08        | 71.6 | 4.2       |
| 86  | 6.0 | 41.4          | 34.2         | 2.10        | 73.9 | 5.9       |
| 86  | 6.8 | 41.9          | 34.7         | 2.10        | 75.2 | 7.4       |
| 86  | 7.5 | 42.2          | 35.0         | 2.11        | 76.1 | 8.8       |
| 86  | 7.9 | 42.4          | 35.2         | 2.11        | 76.6 | 9.6       |
| 86  | 8.3 | 42.5          | 35.3         | 2.11        | 77.0 | 10.4      |



## Performance Data

**Table 44. Heating capacities 2.5 tons (gross) - GEV/H030 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 86  | 9.0 | 42.8          | 35.6         | 2.11        | 77.6 | 12.0      |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 7.5; Minimum CFM 760; Rated CFM 950; Maximum CFM 1140.

**Table 45. Fan correction factors 2.5 tons - GEV/H030**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 760          | 0.961            | 0.879             | 1.005               | 0.990            | 1.100               |
| 808          | 0.972            | 0.910             | 1.003               | 0.993            | 1.070               |
| 855          | 0.982            | 0.940             | 1.002               | 0.996            | 1.044               |
| 903          | 0.992            | 0.970             | 1.001               | 0.998            | 1.020               |
| 950          | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 1045         | 1.015            | 1.059             | 0.998               | 1.003            | 0.965               |
| 1093         | 1.021            | 1.089             | 0.997               | 1.005            | 0.949               |
| 1140         | 1.027            | 1.119             | 0.997               | 1.006            | 0.936               |

**Table 46. Correction factors for variation in entering air temperature 2.5 tons, GEV/H030**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.909               | 1.015                  | 0.931                                      | 0.992 | 1.054 | 1.118 | 1.184 | 53.0                            | 1.026               | 0.823                  |
| 56.3                            | 0.910               | 1.015                  | 0.800                                      | 0.996 | 1.056 | 1.119 | 1.184 | 58.0                            | 1.018               | 0.879                  |
| 60.3                            | 0.915               | 1.014                  | 0.644                                      | 0.841 | 1.036 | 1.125 | 1.185 | 63.0                            | 1.009               | 0.939                  |
| 63.2                            | 0.951               | 1.008                  | 0.526                                      | 0.728 | 0.923 | 1.119 | 1.189 | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                  | 0.403                                      | 0.605 | 0.805 | 1.000 | 1.197 | 73.0                            | 0.991               | 1.064                  |
| 72.1                            | 1.104               | 0.983                  | —                                          | —     | 0.562 | 0.764 | 0.961 | 78.0                            | 0.981               | 1.130                  |
| 77.1                            | 1.202               | 0.965                  | —                                          | —     | —     | 0.552 | 0.756 | 83.0                            | 0.971               | 1.198                  |

**Note:** \* = Sensible equals total capacity

## Cooling and Heating Capacities 3 tons

**Table 47. Cooling capacities 3 tons (gross) - GEV/H036**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|------|-----------|
| 45  | 5.9  | 45.1        | 34.3      | 0.76 | 1.53        | 50.3         | 61.8 | 6.9       |
| 45  | 7.2  | 45.3        | 34.4      | 0.76 | 1.47        | 50.3         | 58.8 | 9.7       |
| 45  | 8.1  | 45.4        | 34.4      | 0.76 | 1.45        | 50.3         | 57.3 | 11.9      |
| 45  | 9.0  | 45.4        | 34.5      | 0.76 | 1.42        | 50.3         | 56.0 | 14.3      |
| 45  | 9.5  | 45.5        | 34.5      | 0.76 | 1.41        | 50.3         | 55.5 | 15.7      |
| 45  | 9.9  | 45.5        | 34.5      | 0.76 | 1.41        | 50.3         | 55.0 | 16.9      |
| 45  | 10.8 | 45.6        | 34.5      | 0.76 | 1.39        | 50.3         | 54.2 | 19.7      |
| 55  | 5.9  | 43.8        | 33.5      | 0.77 | 1.75        | 49.8         | 71.7 | 6.6       |
| 55  | 7.2  | 43.9        | 33.6      | 0.77 | 1.69        | 49.7         | 68.7 | 9.3       |
| 55  | 8.1  | 44.0        | 33.7      | 0.76 | 1.66        | 49.7         | 67.1 | 11.5      |
| 55  | 9.0  | 44.1        | 33.7      | 0.76 | 1.64        | 49.7         | 65.9 | 13.8      |
| 55  | 9.5  | 44.1        | 33.7      | 0.76 | 1.63        | 49.7         | 65.3 | 15.1      |



**Table 47. Cooling capacities 3 tons (gross) - GEV/H036 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|-------|-----------|
| 55  | 9.9  | 44.1        | 33.7      | 0.76 | 1.62        | 49.7         | 64.9  | 16.2      |
| 55  | 10.8 | 44.2        | 33.7      | 0.76 | 1.60        | 49.7         | 64.1  | 18.9      |
| 68  | 5.9  | 42.0        | 32.6      | 0.77 | 2.11        | 49.2         | 84.5  | 6.2       |
| 68  | 7.2  | 42.2        | 32.6      | 0.77 | 2.03        | 49.1         | 81.5  | 8.7       |
| 68  | 8.1  | 42.2        | 32.7      | 0.77 | 2.00        | 49.1         | 80.0  | 10.7      |
| 68  | 9.0  | 42.3        | 32.7      | 0.77 | 1.97        | 49.0         | 78.8  | 12.8      |
| 68  | 9.5  | 42.3        | 32.7      | 0.77 | 1.96        | 49.0         | 78.2  | 14.1      |
| 68  | 9.9  | 42.3        | 32.7      | 0.77 | 1.95        | 49.0         | 77.8  | 15.1      |
| 68  | 10.8 | 42.4        | 32.7      | 0.77 | 1.93        | 49.0         | 77.0  | 17.6      |
| 75  | 5.9  | 41.9        | 32.1      | 0.77 | 2.23        | 49.5         | 91.6  | 6.0       |
| 75  | 7.2  | 42.0        | 32.2      | 0.77 | 2.15        | 49.4         | 88.6  | 8.5       |
| 75  | 8.1  | 42.1        | 32.3      | 0.77 | 2.12        | 49.3         | 87.1  | 10.4      |
| 75  | 9.0  | 42.2        | 32.3      | 0.77 | 2.09        | 49.3         | 85.8  | 12.5      |
| 75  | 9.5  | 42.2        | 32.3      | 0.77 | 2.08        | 49.3         | 85.3  | 13.7      |
| 75  | 9.9  | 42.2        | 32.3      | 0.77 | 2.07        | 49.3         | 84.9  | 14.7      |
| 75  | 10.8 | 42.3        | 32.4      | 0.77 | 2.05        | 49.3         | 84.0  | 17.1      |
| 86  | 5.9  | 40.6        | 31.2      | 0.77 | 2.58        | 49.4         | 102.6 | 5.8       |
| 86  | 7.2  | 40.8        | 31.3      | 0.77 | 2.50        | 49.3         | 99.5  | 8.2       |
| 86  | 8.1  | 40.9        | 31.4      | 0.77 | 2.46        | 49.2         | 98.0  | 10.0      |
| 86  | 9.0  | 40.9        | 31.4      | 0.77 | 2.43        | 49.2         | 96.8  | 12.1      |
| 86  | 9.5  | 40.9        | 31.4      | 0.77 | 2.41        | 49.2         | 96.2  | 13.2      |
| 86  | 9.9  | 41.0        | 31.4      | 0.77 | 2.40        | 49.2         | 95.8  | 14.2      |
| 86  | 10.8 | 41.0        | 31.5      | 0.77 | 2.38        | 49.1         | 95.0  | 16.5      |
| 95  | 5.9  | 39.0        | 30.3      | 0.78 | 2.90        | 48.9         | 111.4 | 5.6       |
| 95  | 7.2  | 39.2        | 30.4      | 0.77 | 2.82        | 48.8         | 108.4 | 8.0       |
| 95  | 8.1  | 39.3        | 30.4      | 0.77 | 2.78        | 48.8         | 106.9 | 9.8       |
| 95  | 9.0  | 39.3        | 30.4      | 0.77 | 2.75        | 48.7         | 105.7 | 11.7      |
| 95  | 9.5  | 39.4        | 30.5      | 0.77 | 2.73        | 48.7         | 105.1 | 12.9      |
| 95  | 9.9  | 39.4        | 30.5      | 0.77 | 2.72        | 48.7         | 104.7 | 13.8      |
| 95  | 10.8 | 39.4        | 30.5      | 0.77 | 2.70        | 48.6         | 103.9 | 16.1      |
| 105 | 5.9  | 37.2        | 29.2      | 0.78 | 3.29        | 48.4         | 121.2 | 5.5       |
| 105 | 7.2  | 37.4        | 29.3      | 0.78 | 3.21        | 48.3         | 118.3 | 7.7       |
| 105 | 8.1  | 37.4        | 29.3      | 0.78 | 3.17        | 48.2         | 116.8 | 9.5       |
| 105 | 9.0  | 37.5        | 29.3      | 0.78 | 3.13        | 48.2         | 115.6 | 11.4      |
| 105 | 9.5  | 37.5        | 29.3      | 0.78 | 3.12        | 48.2         | 115.0 | 12.5      |
| 105 | 9.9  | 37.6        | 29.4      | 0.78 | 3.11        | 48.2         | 114.6 | 13.4      |
| 105 | 10.8 | 37.6        | 29.4      | 0.78 | 3.08        | 48.1         | 113.8 | 15.6      |
| 115 | 5.9  | 35.2        | 28.0      | 0.79 | 3.70        | 47.9         | 131.1 | 5.3       |
| 115 | 7.2  | 35.4        | 28.1      | 0.79 | 3.62        | 47.7         | 128.1 | 7.5       |
| 115 | 8.1  | 35.5        | 28.1      | 0.79 | 3.58        | 47.7         | 126.7 | 9.2       |
| 115 | 9.0  | 35.5        | 28.2      | 0.79 | 3.55        | 47.6         | 125.5 | 11.0      |



## Performance Data

**Table 47. Cooling capacities 3 tons (gross) - GEV/H036 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|-------|-----------|
| 115 | 9.5  | 35.6        | 28.2      | 0.79 | 3.53        | 47.6         | 124.9 | 12.1      |
| 115 | 9.9  | 35.6        | 28.2      | 0.79 | 3.52        | 47.6         | 124.5 | 12.9      |
| 115 | 10.8 | 35.6        | 28.2      | 0.79 | 3.50        | 47.6         | 123.7 | 15.1      |
| 120 | 5.9  | 34.2        | 27.4      | 0.80 | 3.91        | 47.5         | 136.0 | 5.3       |
| 120 | 7.2  | 34.4        | 27.5      | 0.80 | 3.83        | 47.4         | 133.0 | 7.4       |
| 120 | 8.1  | 34.4        | 27.5      | 0.80 | 3.79        | 47.4         | 131.6 | 9.1       |
| 120 | 9.0  | 34.5        | 27.5      | 0.80 | 3.76        | 47.3         | 130.4 | 10.9      |
| 120 | 9.5  | 34.5        | 27.6      | 0.80 | 3.75        | 47.3         | 129.9 | 12.0      |
| 120 | 9.9  | 34.5        | 27.6      | 0.80 | 3.74        | 47.3         | 129.5 | 12.8      |
| 120 | 10.8 | 34.6        | 27.6      | 0.80 | 3.71        | 47.3         | 128.7 | 14.9      |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 9; Minimum CFM 912; Rated CFM 1140; Maximum CFM 1368.

**Table 48. Heating capacities 3 tons (gross) - GEV/H036**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 25  | 5.9  | 24.5          | 16.9         | 2.21        | 18.3 | 8.9       |
| 25  | 7.2  | 24.9          | 17.3         | 2.22        | 19.4 | 12.6      |
| 25  | 8.1  | 25.2          | 17.6         | 2.23        | 20.0 | 15.5      |
| 25  | 9.0  | 25.4          | 17.8         | 2.23        | 20.4 | 18.6      |
| 25  | 9.5  | 25.5          | 17.8         | 2.24        | 20.6 | 20.4      |
| 25  | 9.9  | 25.6          | 17.9         | 2.24        | 20.8 | 21.9      |
| 25  | 10.8 | 25.7          | 18.1         | 2.24        | 21.1 | 25.5      |
| 32  | 5.9  | 27.1          | 19.4         | 2.27        | 24.4 | 8.7       |
| 32  | 7.2  | 27.7          | 19.9         | 2.29        | 25.7 | 12.2      |
| 32  | 8.1  | 28.0          | 20.1         | 2.29        | 26.3 | 15.0      |
| 32  | 9.0  | 28.2          | 20.4         | 2.30        | 26.8 | 18.0      |
| 32  | 9.5  | 28.3          | 20.5         | 2.30        | 27.1 | 19.8      |
| 32  | 9.9  | 28.4          | 20.5         | 2.30        | 27.2 | 21.3      |
| 32  | 10.8 | 28.6          | 20.7         | 2.31        | 27.6 | 24.7      |
| 45  | 5.9  | 34.4          | 26.0         | 2.45        | 35.8 | 6.9       |
| 45  | 7.2  | 35.1          | 26.7         | 2.46        | 37.3 | 9.7       |
| 45  | 8.1  | 35.5          | 27.1         | 2.47        | 38.1 | 11.9      |
| 45  | 9.0  | 35.9          | 27.4         | 2.48        | 38.7 | 14.3      |
| 45  | 9.5  | 36.0          | 27.5         | 2.48        | 39.0 | 15.7      |
| 45  | 9.9  | 36.1          | 27.6         | 2.48        | 39.2 | 16.9      |
| 45  | 10.8 | 36.4          | 27.9         | 2.49        | 39.7 | 19.7      |
| 55  | 5.9  | 38.8          | 30.1         | 2.53        | 44.4 | 6.6       |
| 55  | 7.2  | 39.6          | 30.9         | 2.55        | 46.1 | 9.3       |
| 55  | 8.1  | 40.1          | 31.4         | 2.56        | 47.0 | 11.5      |
| 55  | 9.0  | 40.5          | 31.7         | 2.56        | 47.7 | 13.8      |
| 55  | 9.5  | 40.6          | 31.9         | 2.57        | 48.1 | 15.1      |
| 55  | 9.9  | 40.8          | 32.0         | 2.57        | 48.3 | 16.2      |

**Table 48. Heating capacities 3 tons (gross) - GEV/H036 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 55  | 10.8 | 41.0          | 32.2         | 2.57        | 48.8 | 18.9      |
| 68  | 5.9  | 43.7          | 34.7         | 2.66        | 55.9 | 6.2       |
| 68  | 7.2  | 44.8          | 35.6         | 2.68        | 57.8 | 8.7       |
| 68  | 8.1  | 45.3          | 36.1         | 2.69        | 58.8 | 10.7      |
| 68  | 9.0  | 45.7          | 36.5         | 2.70        | 59.6 | 12.8      |
| 68  | 9.5  | 45.9          | 36.7         | 2.70        | 60.0 | 14.1      |
| 68  | 9.9  | 46.1          | 36.9         | 2.70        | 60.3 | 15.1      |
| 68  | 10.8 | 46.4          | 37.2         | 2.71        | 60.9 | 17.6      |
| 75  | 5.9  | 46.9          | 37.6         | 2.71        | 61.8 | 6.0       |
| 75  | 7.2  | 47.9          | 38.6         | 2.73        | 63.9 | 8.5       |
| 75  | 8.1  | 48.5          | 39.1         | 2.74        | 65.0 | 10.4      |
| 75  | 9.0  | 48.9          | 39.5         | 2.74        | 65.9 | 12.5      |
| 75  | 9.5  | 49.1          | 39.7         | 2.75        | 66.3 | 13.7      |
| 75  | 9.9  | 49.3          | 39.9         | 2.75        | 66.6 | 14.7      |
| 75  | 10.8 | 49.6          | 40.2         | 2.75        | 67.3 | 17.1      |
| 86  | 5.9  | 51.4          | 41.9         | 2.77        | 71.2 | 5.8       |
| 86  | 7.2  | 52.4          | 42.9         | 2.78        | 73.6 | 8.2       |
| 86  | 8.1  | 52.8          | 43.3         | 2.79        | 74.8 | 10.0      |
| 86  | 9.0  | 53.2          | 43.7         | 2.79        | 75.8 | 12.1      |
| 86  | 9.5  | 53.4          | 43.9         | 2.79        | 76.3 | 13.2      |
| 86  | 9.9  | 53.5          | 44.0         | 2.79        | 76.7 | 14.2      |
| 86  | 10.8 | 53.8          | 44.3         | 2.79        | 77.4 | 16.5      |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 9; Minimum CFM 912; Rated CFM 1140; Maximum CFM 1368.

**Table 49. Fan correction factors 3 tons - GEV/H036**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 912          | 0.952            | 0.883             | 1.010               | 0.989            | 1.098               |
| 969          | 0.969            | 0.912             | 1.006               | 0.993            | 1.069               |
| 1026         | 0.980            | 0.942             | 1.004               | 0.995            | 1.043               |
| 1083         | 0.991            | 0.971             | 1.002               | 0.998            | 1.021               |
| 1140         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 1254         | 1.017            | 1.058             | 0.997               | 1.004            | 0.965               |
| 1311         | 1.024            | 1.086             | 0.996               | 1.005            | 0.950               |
| 1368         | 1.031            | 1.115             | 0.995               | 1.007            | 0.936               |

**Table 50. Correction factors for variation in entering air temperature 3 tons, GEV/H036**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.911               | 1.015                  | 0.986                                      | 1.052 | 1.119 | 1.188 | 1.259 | 53.0                            | 1.025               | 0.837                  |
| 56.3                            | 0.913               | 1.015                  | 0.805                                      | 0.998 | 1.121 | 1.190 | 1.259 | 58.0                            | 1.017               | 0.889                  |
| 60.3                            | 0.918               | 1.014                  | 0.647                                      | 0.843 | 1.038 | 1.197 | 1.261 | 63.0                            | 1.009               | 0.943                  |



## Performance Data

**Table 50. Correction factors for variation in entering air temperature 3 tons, GEV/H036 (continued)**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 63.2                            | 0.954               | 1.008                  | 0.530                                      | 0.729 | 0.924 | 1.120 | 1.266 | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                  | 0.406                                      | 0.607 | 0.807 | 1.000 | 1.196 | 73.0                            | 0.991               | 1.059                  |
| 72.1                            | 1.101               | 0.985                  | —                                          | —     | 0.561 | 0.762 | 0.959 | 78.0                            | 0.982               | 1.119                  |
| 77.1                            | 1.193               | 0.969                  | —                                          | —     | —     | 0.547 | 0.750 | 83.0                            | 0.973               | 1.181                  |

Note: \* = Sensible equals total capacity

## Cooling and Heating Capacities 3.5 tons

**Table 51. Cooling capacities 3.5 tons (gross) - GEV/H042**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|-------|-----------|
| 45  | 6.8  | 49.4        | 38.7      | 0.78 | 1.44        | 54.3         | 60.9  | 6.1       |
| 45  | 8.4  | 49.4        | 38.7      | 0.78 | 1.39        | 54.1         | 57.8  | 8.8       |
| 45  | 9.5  | 49.4        | 38.7      | 0.78 | 1.36        | 54.1         | 56.3  | 10.9      |
| 45  | 10.5 | 49.4        | 38.8      | 0.78 | 1.34        | 54.0         | 55.2  | 12.9      |
| 45  | 11.0 | 49.4        | 38.8      | 0.78 | 1.33        | 54.0         | 54.8  | 14.0      |
| 45  | 11.6 | 49.5        | 38.8      | 0.78 | 1.32        | 54.0         | 54.3  | 15.4      |
| 45  | 12.6 | 49.5        | 38.8      | 0.78 | 1.31        | 53.9         | 53.5  | 17.8      |
| 55  | 6.8  | 48.3        | 38.0      | 0.79 | 1.67        | 54.0         | 70.8  | 5.9       |
| 55  | 8.4  | 48.4        | 38.1      | 0.79 | 1.61        | 53.9         | 67.8  | 8.4       |
| 55  | 9.5  | 48.4        | 38.1      | 0.79 | 1.58        | 53.8         | 66.3  | 10.4      |
| 55  | 10.5 | 48.5        | 38.1      | 0.79 | 1.56        | 53.8         | 65.2  | 12.4      |
| 55  | 11.0 | 48.5        | 38.1      | 0.79 | 1.55        | 53.8         | 64.7  | 13.5      |
| 55  | 11.6 | 48.5        | 38.2      | 0.79 | 1.54        | 53.8         | 64.2  | 14.8      |
| 55  | 12.6 | 48.5        | 38.2      | 0.79 | 1.53        | 53.7         | 63.5  | 17.1      |
| 68  | 6.8  | 46.6        | 37.0      | 0.79 | 1.99        | 53.4         | 83.7  | 5.7       |
| 68  | 8.4  | 46.7        | 37.1      | 0.79 | 1.93        | 53.3         | 80.7  | 8.2       |
| 68  | 9.5  | 46.8        | 37.1      | 0.79 | 1.90        | 53.3         | 79.2  | 10.1      |
| 68  | 10.5 | 46.8        | 37.2      | 0.79 | 1.87        | 53.2         | 78.1  | 12.0      |
| 68  | 11.0 | 46.8        | 37.2      | 0.79 | 1.86        | 53.2         | 77.7  | 13.0      |
| 68  | 11.6 | 46.9        | 37.2      | 0.79 | 1.85        | 53.2         | 77.1  | 14.3      |
| 68  | 12.6 | 46.9        | 37.2      | 0.79 | 1.84        | 53.2         | 76.4  | 16.5      |
| 75  | 6.8  | 46.3        | 36.4      | 0.79 | 2.19        | 53.8         | 90.8  | 5.5       |
| 75  | 8.4  | 46.5        | 36.5      | 0.79 | 2.12        | 53.7         | 87.8  | 8.0       |
| 75  | 9.5  | 46.6        | 36.6      | 0.78 | 2.09        | 53.7         | 86.3  | 9.9       |
| 75  | 10.5 | 46.6        | 36.6      | 0.78 | 2.06        | 53.7         | 85.2  | 11.7      |
| 75  | 11.0 | 46.7        | 36.6      | 0.78 | 2.05        | 53.7         | 84.7  | 12.7      |
| 75  | 11.6 | 46.7        | 36.6      | 0.78 | 2.04        | 53.7         | 84.2  | 14.0      |
| 75  | 12.6 | 46.7        | 36.7      | 0.78 | 2.03        | 53.7         | 83.5  | 16.1      |
| 86  | 6.8  | 44.8        | 35.4      | 0.79 | 2.55        | 53.5         | 101.8 | 5.3       |
| 86  | 8.4  | 45.0        | 35.5      | 0.79 | 2.47        | 53.4         | 98.7  | 7.7       |
| 86  | 9.5  | 45.1        | 35.5      | 0.79 | 2.43        | 53.4         | 97.3  | 9.5       |

**Table 51. Cooling capacities 3.5 tons (gross) - GEV/H042 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|-------|-----------|
| 86  | 10.5 | 45.2        | 35.6      | 0.79 | 2.41        | 53.4         | 96.2  | 11.3      |
| 86  | 11.0 | 45.2        | 35.6      | 0.79 | 2.40        | 53.4         | 95.7  | 12.3      |
| 86  | 11.6 | 45.3        | 35.6      | 0.79 | 2.38        | 53.4         | 95.2  | 13.5      |
| 86  | 12.6 | 45.3        | 35.7      | 0.79 | 2.37        | 53.4         | 94.5  | 15.6      |
| 95  | 6.8  | 42.9        | 34.2      | 0.80 | 2.86        | 52.7         | 110.5 | 5.2       |
| 95  | 8.4  | 43.2        | 34.3      | 0.79 | 2.78        | 52.7         | 107.6 | 7.5       |
| 95  | 9.5  | 43.3        | 34.4      | 0.79 | 2.74        | 52.6         | 106.1 | 9.3       |
| 95  | 10.5 | 43.4        | 34.4      | 0.79 | 2.71        | 52.6         | 105.0 | 11.0      |
| 95  | 11.0 | 43.4        | 34.4      | 0.79 | 2.70        | 52.6         | 104.6 | 12.0      |
| 95  | 11.6 | 43.4        | 34.5      | 0.79 | 2.69        | 52.6         | 104.1 | 13.1      |
| 95  | 12.6 | 43.5        | 34.5      | 0.79 | 2.67        | 52.6         | 103.4 | 15.1      |
| 105 | 6.8  | 40.8        | 32.8      | 0.80 | 3.25        | 51.9         | 120.3 | 5.0       |
| 105 | 8.4  | 41.0        | 32.9      | 0.80 | 3.17        | 51.8         | 117.4 | 7.3       |
| 105 | 9.5  | 41.1        | 33.0      | 0.80 | 3.13        | 51.8         | 115.9 | 9.0       |
| 105 | 10.5 | 41.2        | 33.0      | 0.80 | 3.10        | 51.7         | 114.9 | 10.7      |
| 105 | 11.0 | 41.2        | 33.1      | 0.80 | 3.08        | 51.7         | 114.4 | 11.6      |
| 105 | 11.6 | 41.3        | 33.1      | 0.80 | 3.07        | 51.7         | 113.9 | 12.7      |
| 105 | 12.6 | 41.3        | 33.1      | 0.80 | 3.05        | 51.7         | 113.2 | 14.7      |
| 115 | 6.8  | 38.5        | 31.3      | 0.82 | 3.69        | 51.0         | 130.0 | 4.9       |
| 115 | 8.4  | 38.7        | 31.5      | 0.81 | 3.60        | 51.0         | 127.2 | 7.0       |
| 115 | 9.5  | 38.8        | 31.5      | 0.81 | 3.56        | 50.9         | 125.7 | 8.9       |
| 115 | 10.5 | 38.9        | 31.6      | 0.81 | 3.52        | 50.9         | 124.7 | 10.6      |
| 115 | 11.0 | 38.9        | 31.6      | 0.81 | 3.51        | 50.9         | 124.3 | 11.5      |
| 115 | 11.6 | 38.9        | 31.6      | 0.81 | 3.50        | 50.9         | 123.8 | 12.6      |
| 115 | 12.6 | 39.0        | 31.7      | 0.81 | 3.48        | 50.9         | 123.1 | 14.6      |
| 120 | 6.8  | 37.2        | 30.6      | 0.82 | 3.92        | 50.6         | 134.9 | 4.9       |
| 120 | 8.4  | 37.5        | 30.7      | 0.82 | 3.83        | 50.5         | 132.1 | 7.1       |
| 120 | 9.5  | 37.6        | 30.8      | 0.82 | 3.79        | 50.5         | 130.7 | 8.8       |
| 120 | 10.5 | 37.7        | 30.8      | 0.82 | 3.76        | 50.5         | 129.6 | 10.5      |
| 120 | 11.0 | 37.7        | 30.8      | 0.82 | 3.74        | 50.5         | 129.2 | 11.4      |
| 120 | 11.6 | 37.7        | 30.9      | 0.82 | 3.73        | 50.5         | 128.7 | 12.5      |
| 120 | 12.6 | 37.8        | 30.9      | 0.82 | 3.71        | 50.4         | 128.0 | 14.4      |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 10.5; Minimum CFM 1064; Rated CFM 1330; Maximum CFM 1596.

**Table 52. Heating capacities 3.5 tons (gross) - GEV/H042**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 25  | 6.8  | 21.6          | 12.9         | 2.57        | 18.0 | 7.8       |
| 25  | 8.4  | 22.2          | 13.4         | 2.58        | 19.2 | 11.2      |
| 25  | 9.5  | 22.5          | 13.7         | 2.59        | 19.8 | 13.9      |
| 25  | 10.5 | 22.7          | 13.9         | 2.59        | 20.3 | 16.5      |
| 25  | 11.0 | 22.8          | 14.0         | 2.60        | 20.4 | 17.9      |



## Performance Data

Table 52. Heating capacities 3.5 tons (gross) - GEV/H042 (continued)

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 25  | 11.6 | 22.9          | 14.1         | 2.60        | 20.7 | 19.6      |
| 25  | 12.6 | 23.1          | 14.2         | 2.60        | 21.0 | 22.7      |
| 32  | 6.8  | 24.6          | 15.6         | 2.63        | 24.1 | 7.5       |
| 32  | 8.4  | 25.3          | 16.3         | 2.65        | 25.4 | 10.9      |
| 32  | 9.5  | 25.7          | 16.6         | 2.65        | 26.1 | 13.5      |
| 32  | 10.5 | 25.9          | 16.9         | 2.66        | 26.6 | 16.0      |
| 32  | 11.0 | 26.0          | 17.0         | 2.66        | 26.8 | 17.4      |
| 32  | 11.6 | 26.2          | 17.1         | 2.66        | 27.1 | 19.1      |
| 32  | 12.6 | 26.4          | 17.3         | 2.67        | 27.4 | 22.0      |
| 45  | 6.8  | 31.1          | 21.4         | 2.83        | 35.7 | 6.1       |
| 45  | 8.4  | 32.0          | 22.3         | 2.84        | 37.3 | 8.8       |
| 45  | 9.5  | 32.5          | 22.7         | 2.85        | 38.1 | 10.9      |
| 45  | 10.5 | 32.8          | 23.1         | 2.86        | 38.7 | 12.9      |
| 45  | 11.0 | 33.0          | 23.2         | 2.86        | 38.9 | 14.0      |
| 45  | 11.6 | 33.1          | 23.4         | 2.86        | 39.2 | 15.4      |
| 45  | 12.6 | 33.4          | 23.6         | 2.87        | 39.6 | 17.8      |
| 55  | 6.8  | 36.1          | 26.2         | 2.91        | 44.2 | 5.9       |
| 55  | 8.4  | 37.2          | 27.2         | 2.93        | 46.0 | 8.4       |
| 55  | 9.5  | 37.8          | 27.7         | 2.93        | 46.9 | 10.4      |
| 55  | 10.5 | 38.2          | 28.1         | 2.94        | 47.6 | 12.4      |
| 55  | 11.0 | 38.4          | 28.3         | 2.94        | 47.9 | 13.5      |
| 55  | 11.6 | 38.5          | 28.5         | 2.95        | 48.3 | 14.8      |
| 55  | 12.6 | 38.8          | 28.8         | 2.95        | 48.8 | 17.1      |
| 68  | 6.8  | 42.3          | 31.7         | 3.10        | 55.3 | 5.7       |
| 68  | 8.4  | 43.7          | 33.0         | 3.12        | 57.4 | 8.2       |
| 68  | 9.5  | 44.4          | 33.7         | 3.12        | 58.5 | 10.1      |
| 68  | 10.5 | 44.9          | 34.2         | 3.13        | 59.3 | 12.0      |
| 68  | 11.0 | 45.1          | 34.4         | 3.13        | 59.6 | 13.0      |
| 68  | 11.6 | 45.4          | 34.7         | 3.14        | 60.0 | 14.3      |
| 68  | 12.6 | 45.8          | 35.0         | 3.14        | 60.6 | 16.5      |
| 75  | 6.8  | 46.1          | 35.4         | 3.14        | 61.2 | 5.5       |
| 75  | 8.4  | 47.6          | 36.8         | 3.16        | 63.5 | 8.0       |
| 75  | 9.5  | 48.3          | 37.5         | 3.17        | 64.6 | 9.9       |
| 75  | 10.5 | 48.8          | 38.0         | 3.17        | 65.5 | 11.7      |
| 75  | 11.0 | 49.1          | 38.2         | 3.17        | 65.9 | 12.7      |
| 75  | 11.6 | 49.3          | 38.5         | 3.18        | 66.3 | 14.0      |
| 75  | 12.6 | 49.7          | 38.9         | 3.18        | 67.0 | 16.1      |
| 86  | 6.8  | 51.8          | 40.9         | 3.20        | 70.5 | 5.3       |
| 86  | 8.4  | 53.2          | 42.3         | 3.21        | 73.1 | 7.7       |
| 86  | 9.5  | 54.0          | 43.0         | 3.21        | 74.4 | 9.5       |
| 86  | 10.5 | 54.5          | 43.5         | 3.21        | 75.4 | 11.3      |

**Table 52. Heating capacities 3.5 tons (gross) - GEV/H042 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 86  | 11.0 | 54.7          | 43.7         | 3.21        | 75.8 | 12.3      |
| 86  | 11.6 | 55.0          | 44.0         | 3.22        | 76.3 | 13.5      |
| 86  | 12.6 | 55.3          | 44.3         | 3.22        | 77.0 | 15.6      |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 10.5; Minimum CFM 1064; Rated CFM 1330; Maximum CFM 1596.

**Table 53. Fan correction factors 3.5 tons - GEV/H042**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 1064         | 0.958            | 0.877             | 1.003               | 0.965            | 1.105               |
| 1131         | 0.967            | 0.910             | 1.003               | 0.976            | 1.073               |
| 1197         | 0.981            | 0.939             | 1.001               | 0.985            | 1.046               |
| 1264         | 0.991            | 0.970             | 1.001               | 0.993            | 1.022               |
| 1330         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 1463         | 1.016            | 1.060             | 0.999               | 1.012            | 0.963               |
| 1530         | 1.023            | 1.090             | 0.998               | 1.017            | 0.947               |
| 1596         | 1.030            | 1.120             | 0.998               | 1.022            | 0.933               |

**Table 54. Correction factors for variation in entering air temperature 3.5 tons, GEV/H042**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.918               | 1.006                  | 0.970                                      | 1.036 | 1.103 | 1.172 | 1.244 | 53.0                            | 1.067               | 0.836                  |
| 56.3                            | 0.920               | 1.006                  | 0.795                                      | 0.998 | 1.105 | 1.174 | 1.244 | 58.0                            | 1.046               | 0.888                  |
| 60.3                            | 0.921               | 1.006                  | 0.634                                      | 0.837 | 1.039 | 1.175 | 1.245 | 63.0                            | 1.023               | 0.943                  |
| 63.2                            | 0.954               | 1.003                  | 0.513                                      | 0.719 | 0.921 | 1.124 | 1.245 | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                  | 0.387                                      | 0.593 | 0.799 | 1.000 | 1.204 | 73.0                            | 0.976               | 1.059                  |
| 72.1                            | 1.104               | 0.993                  | —                                          | —     | 0.547 | 0.754 | 0.958 | 78.0                            | 0.952               | 1.122                  |
| 77.1                            | 1.198               | 0.986                  | —                                          | —     | —     | 0.535 | 0.743 | 83.0                            | 0.927               | 1.187                  |

**Note:** \* = Sensible equals total capacity

## Cooling and Heating Capacities 4 tons

**Table 55. Cooling capacities 4 tons (gross) - GEV/H048**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-------------|-----------|------|----------|--------------|------|-----------|
| 45  | 7.8  | 58.1        | 44.9      | 0.77 | 1.79     | 64.3         | 61.2 | 7.7       |
| 45  | 9.6  | 58.4        | 45.0      | 0.77 | 1.74     | 64.3         | 58.2 | 11.1      |
| 45  | 10.8 | 58.5        | 45.1      | 0.77 | 1.71     | 64.3         | 56.7 | 13.6      |
| 45  | 12.0 | 58.6        | 45.1      | 0.77 | 1.69     | 64.4         | 55.6 | 16.3      |
| 45  | 12.6 | 58.6        | 45.1      | 0.77 | 1.69     | 64.4         | 55.1 | 17.8      |
| 45  | 13.2 | 58.7        | 45.2      | 0.77 | 1.68     | 64.4         | 54.6 | 19.3      |
| 45  | 14.4 | 58.7        | 45.2      | 0.77 | 1.66     | 64.4         | 53.8 | 22.4      |
| 55  | 7.8  | 56.5        | 44.0      | 0.78 | 2.02     | 63.4         | 70.9 | 7.4       |
| 55  | 9.6  | 56.7        | 44.1      | 0.78 | 1.96     | 63.4         | 68.0 | 10.7      |
| 55  | 10.8 | 56.8        | 44.2      | 0.78 | 1.93     | 63.4         | 66.5 | 13.1      |



## Performance Data

Table 55. Cooling capacities 4 tons (gross) - GEV/H048 (continued)

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------|--------------|-------|-----------|
| 55  | 12.0 | 56.9        | 44.2      | 0.78 | 1.91     | 63.4         | 65.4  | 15.7      |
| 55  | 12.6 | 56.9        | 44.2      | 0.78 | 1.90     | 63.4         | 64.9  | 17.1      |
| 55  | 13.2 | 57.0        | 44.2      | 0.78 | 1.89     | 63.4         | 64.4  | 18.5      |
| 55  | 14.4 | 57.0        | 44.3      | 0.78 | 1.87     | 63.4         | 63.7  | 21.5      |
| 68  | 7.8  | 54.3        | 42.8      | 0.79 | 2.38     | 62.4         | 83.6  | 7.2       |
| 68  | 9.6  | 54.5        | 42.9      | 0.79 | 2.30     | 62.4         | 80.7  | 10.3      |
| 68  | 10.8 | 54.6        | 42.9      | 0.79 | 2.27     | 62.3         | 79.3  | 12.6      |
| 68  | 12.0 | 54.7        | 43.0      | 0.79 | 2.24     | 62.3         | 78.2  | 15.2      |
| 68  | 12.6 | 54.7        | 43.0      | 0.79 | 2.23     | 62.3         | 77.7  | 16.5      |
| 68  | 13.2 | 54.7        | 43.0      | 0.79 | 2.22     | 62.3         | 77.2  | 17.9      |
| 68  | 14.4 | 54.8        | 43.0      | 0.79 | 2.20     | 62.3         | 76.5  | 20.8      |
| 75  | 7.8  | 53.4        | 42.5      | 0.80 | 2.58     | 62.2         | 90.5  | 7.0       |
| 75  | 9.6  | 53.6        | 42.6      | 0.80 | 2.50     | 62.1         | 87.6  | 10.1      |
| 75  | 10.8 | 53.7        | 42.7      | 0.79 | 2.46     | 62.1         | 86.2  | 12.3      |
| 75  | 12.0 | 53.8        | 42.7      | 0.79 | 2.43     | 62.1         | 85.1  | 14.8      |
| 75  | 12.6 | 53.8        | 42.8      | 0.79 | 2.42     | 62.1         | 84.6  | 16.1      |
| 75  | 13.2 | 53.9        | 42.8      | 0.79 | 2.41     | 62.1         | 84.2  | 17.5      |
| 75  | 14.4 | 53.9        | 42.8      | 0.79 | 2.39     | 62.1         | 83.4  | 20.3      |
| 86  | 7.8  | 51.3        | 41.6      | 0.81 | 2.96     | 61.4         | 101.2 | 6.8       |
| 86  | 9.6  | 51.6        | 41.7      | 0.81 | 2.88     | 61.4         | 98.4  | 9.7       |
| 86  | 10.8 | 51.7        | 41.8      | 0.81 | 2.83     | 61.3         | 97.0  | 11.9      |
| 86  | 12.0 | 51.8        | 41.8      | 0.81 | 2.80     | 61.3         | 95.9  | 14.3      |
| 86  | 12.6 | 51.8        | 41.8      | 0.81 | 2.79     | 61.3         | 95.4  | 15.6      |
| 86  | 13.2 | 51.8        | 41.9      | 0.81 | 2.78     | 61.3         | 95.0  | 16.9      |
| 86  | 14.4 | 51.9        | 41.9      | 0.81 | 2.75     | 61.3         | 94.3  | 19.6      |
| 95  | 7.8  | 49.3        | 40.6      | 0.82 | 3.34     | 60.7         | 110.0 | 6.6       |
| 95  | 9.6  | 49.6        | 40.8      | 0.82 | 3.24     | 60.7         | 107.2 | 9.5       |
| 95  | 10.8 | 49.7        | 40.8      | 0.82 | 3.20     | 60.6         | 105.8 | 11.6      |
| 95  | 12.0 | 49.8        | 40.9      | 0.82 | 3.16     | 60.6         | 104.7 | 13.9      |
| 95  | 12.6 | 49.9        | 40.9      | 0.82 | 3.15     | 60.6         | 104.3 | 15.1      |
| 95  | 13.2 | 49.9        | 40.9      | 0.82 | 3.13     | 60.6         | 103.9 | 16.4      |
| 95  | 14.4 | 50.0        | 40.9      | 0.82 | 3.11     | 60.6         | 103.1 | 19.1      |
| 105 | 7.8  | 46.9        | 39.5      | 0.84 | 3.80     | 59.8         | 119.6 | 6.4       |
| 105 | 9.6  | 47.1        | 39.6      | 0.84 | 3.70     | 59.8         | 116.9 | 9.2       |
| 105 | 10.8 | 47.3        | 39.7      | 0.84 | 3.66     | 59.8         | 115.6 | 11.2      |
| 105 | 12.0 | 47.4        | 39.7      | 0.84 | 3.62     | 59.7         | 114.5 | 13.5      |
| 105 | 12.6 | 47.4        | 39.7      | 0.84 | 3.60     | 59.7         | 114.1 | 14.7      |
| 105 | 13.2 | 47.5        | 39.8      | 0.84 | 3.59     | 59.7         | 113.7 | 15.9      |
| 105 | 14.4 | 47.6        | 39.8      | 0.84 | 3.56     | 59.7         | 112.9 | 18.5      |
| 115 | 7.8  | 44.1        | 38.2      | 0.87 | 4.32     | 58.8         | 129.3 | 6.2       |
| 115 | 9.6  | 44.4        | 38.3      | 0.86 | 4.22     | 58.8         | 126.6 | 8.9       |



**Table 55. Cooling capacities 4 tons (gross) - GEV/H048 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------|--------------|-------|-----------|
| 115 | 10.8 | 44.6        | 38.4      | 0.86 | 4.17     | 58.8         | 125.3 | 10.9      |
| 115 | 12.0 | 44.7        | 38.5      | 0.86 | 4.13     | 58.8         | 124.3 | 13.1      |
| 115 | 12.6 | 44.7        | 38.5      | 0.86 | 4.11     | 58.8         | 123.8 | 14.2      |
| 115 | 13.2 | 44.8        | 38.5      | 0.86 | 4.10     | 58.8         | 123.4 | 15.4      |
| 115 | 14.4 | 44.8        | 38.5      | 0.86 | 4.07     | 58.7         | 122.7 | 18.0      |
| 120 | 7.8  | 42.6        | 37.5      | 0.88 | 4.59     | 58.3         | 134.0 | 6.1       |
| 120 | 9.6  | 42.9        | 37.7      | 0.88 | 4.49     | 58.3         | 131.4 | 8.8       |
| 120 | 10.8 | 43.1        | 37.7      | 0.88 | 4.44     | 58.2         | 130.2 | 10.8      |
| 120 | 12.0 | 43.2        | 37.8      | 0.87 | 4.40     | 58.2         | 129.2 | 13.0      |
| 120 | 12.6 | 43.3        | 37.8      | 0.87 | 4.39     | 58.2         | 128.7 | 14.1      |
| 120 | 13.2 | 43.3        | 37.8      | 0.87 | 4.37     | 58.2         | 128.3 | 15.4      |
| 120 | 14.4 | 43.4        | 37.9      | 0.87 | 4.35     | 58.2         | 127.6 | 17.9      |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation of data is permissible; extrapolation is not. Rated GPM: 12 Minimum cfm 1216; Rated cfm 1520; Maximum cfm 1824.

**Table 56. Heating capacities 4 tons (gross) - GEV/H048**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|------|-----------|
| 25  | 7.8  | 30.6          | 21.6         | 2.66     | 18.3 | 9.9       |
| 25  | 9.6  | 31.3          | 22.2         | 2.68     | 19.5 | 14.1      |
| 25  | 10.8 | 31.6          | 22.5         | 2.68     | 20.0 | 17.4      |
| 25  | 12.0 | 31.9          | 22.7         | 2.69     | 20.5 | 20.8      |
| 25  | 12.6 | 32.0          | 22.8         | 2.69     | 20.7 | 22.7      |
| 25  | 13.2 | 32.1          | 22.9         | 2.69     | 20.8 | 24.6      |
| 25  | 14.4 | 32.3          | 23.1         | 2.70     | 21.2 | 28.6      |
| 32  | 7.8  | 34.2          | 24.9         | 2.73     | 24.4 | 9.6       |
| 32  | 9.6  | 34.9          | 25.6         | 2.75     | 25.7 | 13.7      |
| 32  | 10.8 | 35.3          | 25.9         | 2.75     | 26.3 | 16.8      |
| 32  | 12.0 | 35.6          | 26.2         | 2.76     | 26.9 | 20.2      |
| 32  | 12.6 | 35.8          | 26.3         | 2.76     | 27.1 | 22.0      |
| 32  | 13.2 | 35.9          | 26.5         | 2.77     | 27.3 | 23.9      |
| 32  | 14.4 | 36.1          | 26.7         | 2.77     | 27.6 | 27.8      |
| 45  | 7.8  | 43.6          | 33.2         | 3.02     | 36.1 | 7.7       |
| 45  | 9.6  | 44.5          | 34.2         | 3.04     | 37.5 | 11.1      |
| 45  | 10.8 | 45.0          | 34.6         | 3.05     | 38.3 | 13.6      |
| 45  | 12.0 | 45.4          | 35.0         | 3.06     | 38.9 | 16.3      |
| 45  | 12.6 | 45.6          | 35.2         | 3.06     | 39.2 | 17.8      |
| 45  | 13.2 | 45.8          | 35.3         | 3.07     | 39.4 | 19.3      |
| 45  | 14.4 | 46.1          | 35.6         | 3.07     | 39.8 | 22.4      |
| 55  | 7.8  | 49.2          | 38.5         | 3.14     | 44.7 | 7.4       |
| 55  | 9.6  | 50.4          | 39.6         | 3.16     | 46.4 | 10.7      |
| 55  | 10.8 | 50.9          | 40.1         | 3.17     | 47.2 | 13.1      |
| 55  | 12.0 | 51.4          | 40.5         | 3.18     | 47.9 | 15.7      |



## Performance Data

**Table 56. Heating capacities 4 tons (gross) - GEV/H048 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|------|-----------|
| 55  | 12.6 | 51.6          | 40.7         | 3.19     | 48.2 | 17.1      |
| 55  | 13.2 | 51.8          | 40.9         | 3.19     | 48.5 | 18.5      |
| 55  | 14.4 | 52.1          | 41.2         | 3.20     | 49.0 | 21.5      |
| 68  | 7.8  | 57.6          | 46.1         | 3.36     | 55.8 | 7.2       |
| 68  | 9.6  | 59.0          | 47.4         | 3.39     | 57.8 | 10.3      |
| 68  | 10.8 | 59.7          | 48.0         | 3.41     | 58.8 | 12.6      |
| 68  | 12.0 | 60.2          | 48.6         | 3.42     | 59.6 | 15.2      |
| 68  | 12.6 | 60.5          | 48.8         | 3.42     | 60.0 | 16.5      |
| 68  | 13.2 | 60.7          | 49.0         | 3.43     | 60.3 | 17.9      |
| 68  | 14.4 | 61.1          | 49.4         | 3.44     | 60.9 | 20.8      |
| 75  | 7.8  | 61.6          | 49.9         | 3.45     | 61.8 | 7.0       |
| 75  | 9.6  | 63.1          | 51.2         | 3.48     | 63.9 | 10.1      |
| 75  | 10.8 | 63.8          | 51.9         | 3.49     | 65.0 | 12.3      |
| 75  | 12.0 | 64.3          | 52.4         | 3.50     | 65.9 | 14.8      |
| 75  | 12.6 | 64.6          | 52.6         | 3.51     | 66.3 | 16.1      |
| 75  | 13.2 | 64.8          | 52.8         | 3.51     | 66.7 | 17.5      |
| 75  | 14.4 | 65.2          | 53.2         | 3.52     | 67.3 | 20.3      |
| 86  | 7.8  | 67.6          | 55.4         | 3.57     | 71.2 | 6.8       |
| 86  | 9.6  | 69.0          | 56.7         | 3.60     | 73.6 | 9.7       |
| 86  | 10.8 | 69.7          | 57.3         | 3.62     | 74.9 | 11.9      |
| 86  | 12.0 | 70.2          | 57.8         | 3.63     | 75.9 | 14.3      |
| 86  | 12.6 | 70.5          | 58.1         | 3.63     | 76.3 | 15.6      |
| 86  | 13.2 | 70.7          | 58.3         | 3.64     | 76.7 | 16.9      |
| 86  | 14.4 | 71.1          | 58.6         | 3.65     | 77.5 | 19.6      |

**Note:** Heating performance data is tabulated at 68°F DB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation of data is permissible; extrapolation is not. Rated GPM: 12.0 Minimum cfm 1216; Rated cfm 1520; Maximum cfm 1824.

**Table 57. Fan correction factors 4 tons - GEV/H048**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 1216         | 0.960            | 0.882             | 1.003               | 0.982            | 1.100               |
| 1292         | 0.971            | 0.912             | 1.002               | 0.988            | 1.071               |
| 1368         | 0.982            | 0.941             | 1.001               | 0.992            | 1.044               |
| 1444         | 0.991            | 0.971             | 1.001               | 0.996            | 1.021               |
| 1520         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 1672         | 1.015            | 1.058             | 0.999               | 1.006            | 0.964               |
| 1748         | 1.022            | 1.087             | 0.999               | 1.009            | 0.948               |
| 1824         | 1.028            | 1.115             | 0.998               | 1.011            | 0.934               |

**Table 58. Correction factors for variation in entering air temperature 4 tons, GEV/H048**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.908               | 1.006                  | 0.939                                      | 0.999 | 1.061 | 1.124 | 1.190 | 53.0                            | 1.034               | 0.840                  |
| 56.3                            | 0.909               | 1.005                  | 0.802                                      | 0.997 | 1.063 | 1.126 | 1.190 | 58.0                            | 1.023               | 0.891                  |
| 60.3                            | 0.910               | 1.005                  | 0.646                                      | 0.842 | 1.037 | 1.127 | 1.191 | 63.0                            | 1.012               | 0.944                  |
| 63.2                            | 0.951               | 1.003                  | 0.529                                      | 0.729 | 0.923 | 1.118 | 1.195 | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                  | 0.406                                      | 0.606 | 0.806 | 1.000 | 1.196 | 73.0                            | 0.988               | 1.058                  |
| 72.1                            | 1.104               | 0.994                  | —                                          | —     | 0.562 | 0.763 | 0.959 | 78.0                            | 0.975               | 1.118                  |
| 77.1                            | 1.197               | 0.988                  | —                                          | —     | —     | 0.55  | 0.752 | 83.0                            | 0.963               | 1.181                  |

Note: \* = Sensible equals total capacity

## Cooling and Heating Capacities 5 tons

**Table 59. Cooling capacity 5 tons (gross) - GEV/H060**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|------|-----------|
| 45  | 9.8  | 68.3        | 54.8      | 0.80 | 2.08        | 75.4         | 60.4 | 5.9       |
| 45  | 12.0 | 68.5        | 54.9      | 0.80 | 2.02        | 75.4         | 57.6 | 8.3       |
| 45  | 13.5 | 68.6        | 55.0      | 0.80 | 1.99        | 75.4         | 56.2 | 10.2      |
| 45  | 15.0 | 68.6        | 55.3      | 0.81 | 1.97        | 75.3         | 55.0 | 12.3      |
| 45  | 15.8 | 68.6        | 55.3      | 0.81 | 1.95        | 75.3         | 54.5 | 13.4      |
| 45  | 16.5 | 68.6        | 55.3      | 0.81 | 1.95        | 75.3         | 54.1 | 14.5      |
| 45  | 18.0 | 68.7        | 55.3      | 0.81 | 1.93        | 75.3         | 53.4 | 16.9      |
| 55  | 9.8  | 66.5        | 53.8      | 0.81 | 2.37        | 74.6         | 70.2 | 5.6       |
| 55  | 12.0 | 66.7        | 53.9      | 0.81 | 2.30        | 74.6         | 67.4 | 8.0       |
| 55  | 13.5 | 66.8        | 54.0      | 0.81 | 2.26        | 74.5         | 66.0 | 9.8       |
| 55  | 15.0 | 66.9        | 54.0      | 0.81 | 2.24        | 74.5         | 64.9 | 11.8      |
| 55  | 15.8 | 66.9        | 54.1      | 0.81 | 2.22        | 74.5         | 64.4 | 12.9      |
| 55  | 16.5 | 67.0        | 54.1      | 0.81 | 2.21        | 74.5         | 64.0 | 13.9      |
| 55  | 18.0 | 66.9        | 54.4      | 0.81 | 2.20        | 74.4         | 63.2 | 16.2      |
| 68  | 9.8  | 63.9        | 52.5      | 0.82 | 2.80        | 73.5         | 82.9 | 5.6       |
| 68  | 12.0 | 64.2        | 52.6      | 0.82 | 2.72        | 73.4         | 80.2 | 8.0       |
| 68  | 13.5 | 64.3        | 52.6      | 0.82 | 2.68        | 73.4         | 78.8 | 9.8       |
| 68  | 15.0 | 64.4        | 52.7      | 0.82 | 2.65        | 73.4         | 77.7 | 11.7      |
| 68  | 15.8 | 64.4        | 52.7      | 0.82 | 2.64        | 73.4         | 77.2 | 12.8      |
| 68  | 16.5 | 64.4        | 52.7      | 0.82 | 2.62        | 73.4         | 76.8 | 13.8      |
| 68  | 18.0 | 64.5        | 52.7      | 0.82 | 2.60        | 73.4         | 76.1 | 16.1      |
| 75  | 9.8  | 62.7        | 52.1      | 0.83 | 3.03        | 73.0         | 89.7 | 5.5       |
| 75  | 12.0 | 62.9        | 52.2      | 0.83 | 2.94        | 73.0         | 87.0 | 7.8       |
| 75  | 13.5 | 63.0        | 52.3      | 0.83 | 2.90        | 72.9         | 85.7 | 9.5       |
| 75  | 15.0 | 63.1        | 52.3      | 0.83 | 2.86        | 72.9         | 84.6 | 11.5      |
| 75  | 15.8 | 63.2        | 52.3      | 0.83 | 2.85        | 72.9         | 84.2 | 12.5      |
| 75  | 16.5 | 63.2        | 52.3      | 0.83 | 2.84        | 72.9         | 83.8 | 13.5      |
| 75  | 18.0 | 63.3        | 52.4      | 0.83 | 2.82        | 72.9         | 83.0 | 15.7      |



## Performance Data

**Table 59. Cooling capacity 5 tons (gross) - GEV/H060 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|-------|-----------|
| 86  | 9.8  | 60.4        | 51.0      | 0.84 | 3.48        | 72.3         | 100.5 | 5.3       |
| 86  | 12.0 | 60.7        | 51.1      | 0.84 | 3.38        | 72.2         | 97.8  | 7.5       |
| 86  | 13.5 | 60.8        | 51.2      | 0.84 | 3.34        | 72.2         | 96.5  | 9.2       |
| 86  | 15.0 | 60.9        | 51.2      | 0.84 | 3.30        | 72.1         | 95.5  | 11.1      |
| 86  | 15.8 | 60.9        | 51.2      | 0.84 | 3.29        | 72.1         | 95.0  | 12.1      |
| 86  | 16.5 | 61.0        | 51.2      | 0.84 | 3.27        | 72.1         | 94.6  | 13.0      |
| 86  | 18.0 | 61.0        | 51.3      | 0.84 | 3.25        | 72.1         | 93.9  | 15.2      |
| 95  | 9.8  | 58.1        | 49.9      | 0.86 | 3.92        | 71.5         | 109.3 | 5.1       |
| 95  | 12.0 | 58.4        | 50.0      | 0.86 | 3.82        | 71.4         | 106.7 | 7.3       |
| 95  | 13.5 | 58.5        | 50.1      | 0.86 | 3.77        | 71.4         | 105.4 | 9.0       |
| 95  | 15.0 | 58.6        | 50.1      | 0.86 | 3.73        | 71.3         | 104.3 | 10.8      |
| 95  | 15.8 | 58.7        | 50.2      | 0.85 | 3.71        | 71.3         | 103.9 | 11.8      |
| 95  | 16.5 | 58.7        | 50.2      | 0.85 | 3.70        | 71.3         | 103.5 | 12.7      |
| 95  | 18.0 | 58.6        | 50.5      | 0.86 | 3.67        | 71.1         | 102.8 | 14.8      |
| 105 | 9.8  | 55.4        | 48.6      | 0.88 | 4.46        | 70.6         | 119.0 | 5.0       |
| 105 | 12.0 | 55.6        | 48.7      | 0.88 | 4.36        | 70.5         | 116.4 | 7.1       |
| 105 | 13.5 | 55.8        | 48.8      | 0.87 | 4.30        | 70.5         | 115.2 | 8.7       |
| 105 | 15.0 | 55.9        | 48.9      | 0.87 | 4.26        | 70.4         | 114.1 | 10.4      |
| 105 | 15.8 | 55.9        | 48.9      | 0.87 | 4.24        | 70.4         | 113.7 | 11.4      |
| 105 | 16.5 | 56.0        | 48.9      | 0.87 | 4.23        | 70.4         | 113.3 | 12.3      |
| 105 | 18.0 | 56.1        | 48.9      | 0.87 | 4.20        | 70.4         | 112.6 | 14.3      |
| 115 | 9.8  | 52.3        | 47.2      | 0.90 | 5.06        | 69.6         | 128.7 | 4.9       |
| 115 | 12.0 | 52.6        | 47.4      | 0.90 | 4.95        | 69.5         | 126.2 | 6.9       |
| 115 | 13.5 | 52.8        | 47.4      | 0.90 | 4.90        | 69.5         | 125.0 | 8.5       |
| 115 | 15.0 | 52.9        | 47.5      | 0.90 | 4.86        | 69.5         | 124.0 | 10.1      |
| 115 | 15.8 | 53.0        | 47.5      | 0.90 | 4.84        | 69.5         | 123.5 | 11.1      |
| 115 | 16.5 | 53.0        | 47.5      | 0.90 | 4.82        | 69.4         | 123.1 | 12.0      |
| 115 | 18.0 | 53.1        | 47.6      | 0.90 | 4.79        | 69.4         | 122.5 | 13.9      |
| 120 | 9.8  | 50.7        | 46.5      | 0.92 | 5.38        | 69.1         | 133.6 | 4.8       |
| 120 | 12.0 | 51.0        | 46.6      | 0.91 | 5.27        | 69.0         | 131.1 | 6.8       |
| 120 | 13.5 | 51.2        | 46.7      | 0.91 | 5.22        | 69.0         | 129.8 | 8.3       |
| 120 | 15.0 | 51.3        | 46.7      | 0.91 | 5.18        | 69.0         | 128.9 | 10.0      |
| 120 | 15.8 | 51.4        | 46.8      | 0.91 | 5.16        | 69.0         | 128.4 | 10.9      |
| 120 | 16.5 | 51.4        | 46.8      | 0.91 | 5.14        | 68.9         | 128.1 | 11.8      |
| 120 | 18.0 | 51.5        | 46.8      | 0.91 | 5.11        | 68.9         | 127.4 | 13.7      |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 15; Minimum CFM 1520; Rated CFM 1900; Maximum CFM 2280.

**Table 60. Heating capacities 5 tons (gross) - GEV/H060**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 25  | 9.8  | 40.6          | 29.3         | 3.31        | 18.1 | 7.2       |
| 25  | 12.0 | 41.4          | 30.0         | 3.32        | 19.3 | 10.2      |

**Table 60. Heating capacities 5 tons (gross) - GEV/H060 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 25  | 13.5 | 41.8          | 30.4         | 3.33        | 19.8 | 12.5      |
| 25  | 15.0 | 42.2          | 30.8         | 3.34        | 20.3 | 15.0      |
| 25  | 15.8 | 42.3          | 30.9         | 3.34        | 20.5 | 16.5      |
| 25  | 16.5 | 42.5          | 31.0         | 3.34        | 20.7 | 17.7      |
| 25  | 18.0 | 42.7          | 31.3         | 3.35        | 21.0 | 20.6      |
| 32  | 9.8  | 45.1          | 33.5         | 3.39        | 24.2 | 7.0       |
| 32  | 12.0 | 46.1          | 34.4         | 3.41        | 25.5 | 9.9       |
| 32  | 13.5 | 46.6          | 34.9         | 3.42        | 26.2 | 12.1      |
| 32  | 15.0 | 47.0          | 35.3         | 3.43        | 26.7 | 14.6      |
| 32  | 15.8 | 47.2          | 35.5         | 3.43        | 26.9 | 16.0      |
| 32  | 16.5 | 47.3          | 35.6         | 3.43        | 27.1 | 17.2      |
| 32  | 18.0 | 47.6          | 35.9         | 3.44        | 27.5 | 20.0      |
| 45  | 9.8  | 53.8          | 40.9         | 3.77        | 36.2 | 5.9       |
| 45  | 12.0 | 55.0          | 42.0         | 3.79        | 37.6 | 8.3       |
| 45  | 13.5 | 55.6          | 42.6         | 3.80        | 38.4 | 10.2      |
| 45  | 15.0 | 56.1          | 43.1         | 3.81        | 39.0 | 12.3      |
| 45  | 15.8 | 56.3          | 43.3         | 3.82        | 39.2 | 13.4      |
| 45  | 16.5 | 56.5          | 43.4         | 3.82        | 39.5 | 14.5      |
| 45  | 18.0 | 56.8          | 43.8         | 3.83        | 39.9 | 16.9      |
| 55  | 9.8  | 60.9          | 47.6         | 3.91        | 44.8 | 5.6       |
| 55  | 12.0 | 62.3          | 48.8         | 3.94        | 46.5 | 8.0       |
| 55  | 13.5 | 62.9          | 49.5         | 3.95        | 47.3 | 9.8       |
| 55  | 15.0 | 63.5          | 50.0         | 3.96        | 48.0 | 11.8      |
| 55  | 15.8 | 63.8          | 50.2         | 3.97        | 48.3 | 12.9      |
| 55  | 16.5 | 64.0          | 50.4         | 3.97        | 48.6 | 13.9      |
| 55  | 18.0 | 64.3          | 50.8         | 3.98        | 49.1 | 16.2      |
| 68  | 9.8  | 70.1          | 55.8         | 4.18        | 56.1 | 5.6       |
| 68  | 12.0 | 71.7          | 57.3         | 4.22        | 58.0 | 8.0       |
| 68  | 13.5 | 72.6          | 58.1         | 4.24        | 59.0 | 9.8       |
| 68  | 15.0 | 73.3          | 58.8         | 4.25        | 59.8 | 11.7      |
| 68  | 15.8 | 73.6          | 59.1         | 4.26        | 60.2 | 12.8      |
| 68  | 16.5 | 73.8          | 59.3         | 4.27        | 60.5 | 13.8      |
| 68  | 18.0 | 74.3          | 59.7         | 4.28        | 61.1 | 16.1      |
| 75  | 9.8  | 75.2          | 60.5         | 4.29        | 62.1 | 5.5       |
| 75  | 12.0 | 76.9          | 62.1         | 4.33        | 64.1 | 7.8       |
| 75  | 13.5 | 77.8          | 62.9         | 4.35        | 65.2 | 9.5       |
| 75  | 15.0 | 78.5          | 63.6         | 4.37        | 66.1 | 11.5      |
| 75  | 15.8 | 78.8          | 63.9         | 4.38        | 66.5 | 12.5      |
| 75  | 16.5 | 79.1          | 64.1         | 4.38        | 66.8 | 13.5      |
| 75  | 18.0 | 79.6          | 64.6         | 4.39        | 67.5 | 15.7      |
| 86  | 9.8  | 82.7          | 67.4         | 4.47        | 71.5 | 5.3       |



## Performance Data

**Table 60. Heating capacities 5 tons (gross) - GEV/H060 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 86  | 12.0 | 84.4          | 69.0         | 4.51        | 73.9 | 7.5       |
| 86  | 13.5 | 85.3          | 69.8         | 4.53        | 75.1 | 9.2       |
| 86  | 15.0 | 86.0          | 70.4         | 4.55        | 76.1 | 11.1      |
| 86  | 15.8 | 86.3          | 70.7         | 4.56        | 76.5 | 12.1      |
| 86  | 16.5 | 86.5          | 70.9         | 4.57        | 76.9 | 13.0      |
| 86  | 18.0 | 87.0          | 71.4         | 4.58        | 77.6 | 15.2      |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 15; Minimum CFM 1520; Rated CFM 1900; Maximum CFM 2280.

**Table 61. Fan correction factors 5 tons - GEV/H060**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 1520         | 0.961            | 0.881             | 1.001               | 0.989            | 1.104               |
| 1615         | 0.971            | 0.912             | 1.001               | 0.992            | 1.073               |
| 1710         | 0.981            | 0.943             | 1.001               | 0.995            | 1.045               |
| 1805         | 0.992            | 0.970             | 1.000               | 0.998            | 1.021               |
| 1900         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 2090         | 1.015            | 1.059             | 1.000               | 1.004            | 0.963               |
| 2185         | 1.021            | 1.089             | 1.000               | 1.005            | 0.947               |
| 2280         | 1.027            | 1.118             | 1.000               | 1.007            | 0.932               |

**Table 62. Correction factors for variation in entering air temperature 5 tons, GEV/H060**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.917               | 1.002                  | 0.919                                      | 0.979 | 1.040 | 1.102 | 1.165 | 53.0                            | 1.028               | 0.835                  |
| 56.3                            | 0.918               | 1.002                  | 0.800                                      | 0.997 | 1.041 | 1.103 | 1.165 | 58.0                            | 1.019               | 0.887                  |
| 60.3                            | 0.911               | 1.003                  | 0.638                                      | 0.841 | 1.038 | 1.095 | 1.166 | 63.0                            | 1.010               | 0.943                  |
| 63.2                            | 0.951               | 1.001                  | 0.518                                      | 0.722 | 0.922 | 1.122 | 1.157 | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                  | 0.392                                      | 0.597 | 0.801 | 1.000 | 1.200 | 73.0                            | 0.990               | 1.060                  |
| 72.1                            | 1.103               | 0.999                  | —                                          | —     | 0.551 | 0.756 | 0.961 | 78.0                            | 0.980               | 1.122                  |
| 77.1                            | 1.196               | 1.000                  | —                                          | —     | —     | 0.54  | 0.747 | 83.0                            | 0.970               | 1.187                  |

**Note:** \* = Sensible equals total capacity

## Cooling and Heating Capacities 6 tons

**Table 63. Cooling capacities 6 tons (gross) – GEH072**

| EWT | GPM  | Gross Cap Mbtuh | Sen. Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-----------------|------------|------|----------|--------------|------|-----------|
| 45  | 9.0  | 87.4            | 65.4       | 0.75 | 2.7      | 96.6         | 66.4 | 4.0       |
| 45  | 12.0 | 88.1            | 65.7       | 0.75 | 2.6      | 96.8         | 61.1 | 6.6       |
| 45  | 15.0 | 88.6            | 65.9       | 0.74 | 2.5      | 97.0         | 57.9 | 9.7       |
| 45  | 18.0 | 88.9            | 66.1       | 0.74 | 2.4      | 97.1         | 55.8 | 13.3      |
| 45  | 21.0 | 89.2            | 66.2       | 0.74 | 2.4      | 97.2         | 54.2 | 17.3      |
| 55  | 9.0  | 85.3            | 64.5       | 0.76 | 3.1      | 95.8         | 76.3 | 3.9       |
| 55  | 12.0 | 85.9            | 64.8       | 0.75 | 2.9      | 95.8         | 70.9 | 6.4       |

**Table 63. Cooling capacities 6 tons (gross) – GEH072 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Sen. Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|------------|------|----------|--------------|-------|-----------|
| 55  | 15.0 | 86.2            | 64.9       | 0.75 | 2.8      | 95.9         | 67.8  | 9.5       |
| 55  | 18.0 | 86.5            | 65.0       | 0.75 | 2.8      | 95.9         | 65.6  | 13.0      |
| 55  | 21.0 | 86.7            | 65.1       | 0.75 | 2.7      | 95.9         | 64.1  | 17.0      |
| 59  | 9.0  | 84.4            | 64.1       | 0.76 | 3.3      | 95.6         | 80.2  | 3.8       |
| 59  | 12.0 | 84.9            | 64.4       | 0.76 | 3.1      | 95.5         | 74.9  | 6.3       |
| 59  | 15.0 | 85.3            | 64.5       | 0.76 | 3.0      | 95.5         | 71.7  | 9.3       |
| 59  | 18.0 | 85.5            | 64.5       | 0.75 | 2.9      | 95.5         | 69.6  | 12.7      |
| 59  | 21.0 | 85.7            | 64.7       | 0.75 | 2.9      | 95.5         | 68.1  | 16.7      |
| 68  | 9.0  | 82.3            | 63.0       | 0.77 | 3.7      | 94.9         | 89.1  | 3.6       |
| 68  | 12.0 | 82.8            | 63.2       | 0.76 | 3.5      | 94.7         | 83.8  | 5.9       |
| 68  | 15.0 | 83.1            | 63.4       | 0.76 | 3.4      | 94.6         | 80.6  | 8.7       |
| 68  | 18.0 | 83.3            | 63.5       | 0.76 | 3.3      | 94.6         | 78.5  | 11.9      |
| 68  | 21.0 | 83.4            | 63.5       | 0.76 | 3.3      | 94.5         | 77.0  | 15.6      |
| 77  | 9.0  | 78.8            | 61.8       | 0.78 | 4.2      | 93.0         | 97.6  | 3.5       |
| 77  | 12.0 | 79.5            | 62.1       | 0.78 | 3.9      | 92.9         | 92.5  | 5.7       |
| 77  | 15.0 | 79.9            | 62.2       | 0.78 | 3.8      | 92.8         | 89.4  | 8.5       |
| 77  | 18.0 | 80.1            | 62.4       | 0.78 | 3.7      | 92.8         | 87.3  | 11.6      |
| 77  | 21.0 | 80.3            | 62.4       | 0.78 | 3.7      | 92.8         | 85.8  | 15.2      |
| 86  | 9.0  | 76.9            | 60.9       | 0.79 | 4.7      | 93.0         | 106.6 | 3.4       |
| 86  | 12.0 | 77.5            | 61.3       | 0.79 | 4.5      | 92.8         | 101.4 | 5.6       |
| 86  | 15.0 | 77.9            | 61.4       | 0.79 | 4.3      | 92.6         | 98.3  | 8.2       |
| 86  | 18.0 | 78.1            | 61.5       | 0.79 | 4.2      | 92.5         | 96.3  | 11.2      |
| 86  | 21.0 | 78.3            | 61.5       | 0.79 | 4.2      | 92.5         | 94.8  | 14.7      |
| 95  | 9.0  | 74.1            | 59.7       | 0.81 | 5.3      | 92.3         | 115.5 | 3.4       |
| 95  | 12.0 | 74.8            | 60.0       | 0.80 | 5.1      | 92.0         | 110.3 | 5.7       |
| 95  | 15.0 | 75.1            | 60.3       | 0.80 | 4.9      | 91.8         | 107.2 | 8.5       |
| 95  | 18.0 | 75.4            | 60.4       | 0.80 | 4.8      | 91.7         | 105.2 | 11.7      |
| 95  | 21.0 | 75.5            | 60.4       | 0.80 | 4.7      | 91.7         | 103.7 | 15.3      |
| 105 | 9.0  | 70.7            | 58.4       | 0.83 | 6.1      | 91.4         | 125.3 | 3.1       |
| 105 | 12.0 | 71.3            | 58.7       | 0.82 | 5.8      | 91.1         | 120.2 | 5.3       |
| 105 | 15.0 | 71.7            | 58.9       | 0.82 | 5.6      | 90.9         | 117.1 | 7.9       |
| 105 | 18.0 | 72.0            | 58.9       | 0.82 | 5.5      | 90.8         | 115.1 | 10.9      |
| 105 | 21.0 | 72.1            | 59.0       | 0.82 | 5.4      | 90.7         | 113.6 | 14.1      |
| 115 | 9.0  | 66.8            | 56.7       | 0.85 | 6.9      | 90.3         | 135.1 | 2.8       |
| 115 | 12.0 | 67.5            | 57.0       | 0.84 | 6.6      | 90.0         | 130.0 | 4.6       |
| 115 | 15.0 | 67.9            | 57.2       | 0.84 | 6.4      | 89.8         | 127.0 | 6.9       |
| 115 | 18.0 | 68.2            | 57.3       | 0.84 | 6.3      | 89.7         | 125.0 | 9.7       |
| 115 | 21.0 | 68.3            | 57.3       | 0.84 | 6.2      | 89.6         | 123.5 | 12.5      |
| 120 | 9.0  | 64.7            | 55.9       | 0.86 | 7.3      | 89.7         | 139.9 | 2.5       |
| 120 | 12.0 | 65.4            | 56.2       | 0.86 | 7.0      | 89.4         | 134.9 | 3.9       |
| 120 | 15.0 | 65.8            | 56.3       | 0.86 | 6.9      | 89.2         | 131.9 | 6.2       |



## Performance Data

**Table 63. Cooling capacities 6 tons (gross) – GEH072 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Sen. Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|------------|------|----------|--------------|-------|-----------|
| 120 | 18.0 | 66.1            | 56.4       | 0.85 | 6.8      | 89.1         | 129.9 | 8.8       |
| 120 | 21.0 | 66.3            | 56.5       | 0.85 | 6.7      | 89.0         | 128.5 | 11.5      |

**Note:** Performance data is tabulated for cooling at 80.6°F DB/66.2°F WB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the cooling correction factors for variations in entering air temperature. WLHP data is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. The minimum gpm/ton is 3.0 when the EWT is greater than 115°F and the EAT is less than 67°F WB. Rated GPM: 18.0 Minimum CFM 1920; Nominal CFM 2400, Maximum CFM 2880.

**Table 64. Heating capacities 6 tons (gross) GEH072**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|----------|------|-----------|
| 25  | 9.0  | 45.3            | 31.9         | 3.9      | 16.7 | 5.2       |
| 25  | 12.0 | 46.7            | 33.3         | 3.9      | 18.5 | 8.6       |
| 25  | 15.0 | 47.6            | 34.2         | 4.0      | 19.7 | 12.7      |
| 25  | 18.0 | 48.3            | 34.8         | 4.0      | 20.5 | 17.4      |
| 25  | 21.0 | 48.7            | 35.2         | 4.0      | 21.1 | 22.7      |
| 32  | 9.0  | 50.0            | 36.3         | 4.0      | 22.7 | 5.1       |
| 32  | 12.0 | 51.6            | 37.9         | 4.0      | 24.7 | 8.3       |
| 32  | 15.0 | 52.7            | 38.9         | 4.1      | 26.0 | 12.3      |
| 32  | 18.0 | 53.4            | 39.6         | 4.1      | 27.0 | 16.9      |
| 32  | 21.0 | 54.0            | 40.1         | 4.1      | 27.6 | 22.0      |
| 45  | 9.0  | 57.2            | 43.6         | 4.0      | 34.7 | 4.0       |
| 45  | 12.0 | 59.2            | 45.4         | 4.0      | 37.0 | 6.6       |
| 45  | 15.0 | 60.5            | 46.6         | 4.1      | 38.4 | 9.7       |
| 45  | 18.0 | 61.4            | 47.5         | 4.1      | 39.4 | 13.3      |
| 45  | 21.0 | 62.0            | 48.1         | 4.1      | 40.2 | 17.3      |
| 55  | 9.0  | 60.9            | 47.1         | 4.1      | 39.0 | 3.9       |
| 55  | 12.0 | 63.1            | 49.1         | 4.1      | 41.4 | 6.4       |
| 55  | 15.0 | 64.5            | 50.4         | 4.1      | 42.9 | 9.5       |
| 55  | 18.0 | 65.4            | 51.3         | 4.2      | 44.0 | 13.0      |
| 55  | 21.0 | 66.2            | 52.0         | 4.2      | 44.8 | 17.0      |
| 59  | 9.0  | 64.7            | 50.6         | 4.1      | 43.2 | 3.8       |
| 59  | 12.0 | 67.0            | 52.8         | 4.2      | 45.7 | 6.3       |
| 59  | 15.0 | 68.5            | 54.2         | 4.2      | 47.4 | 9.3       |
| 59  | 18.0 | 69.6            | 55.2         | 4.2      | 48.5 | 12.7      |
| 59  | 21.0 | 70.4            | 55.9         | 4.2      | 49.4 | 16.7      |
| 68  | 9.0  | 71.3            | 56.7         | 4.3      | 54.8 | 3.6       |
| 68  | 12.0 | 74.1            | 59.3         | 4.3      | 57.6 | 5.9       |
| 68  | 15.0 | 75.8            | 60.9         | 4.4      | 59.5 | 8.7       |
| 68  | 18.0 | 77.1            | 62.1         | 4.4      | 60.8 | 11.9      |
| 68  | 21.0 | 78.0            | 63.0         | 4.4      | 61.7 | 15.6      |
| 77  | 9.0  | 76.8            | 61.9         | 4.4      | 60.6 | 3.5       |
| 77  | 12.0 | 79.8            | 64.7         | 4.4      | 63.7 | 5.7       |
| 77  | 15.0 | 81.7            | 66.5         | 4.5      | 65.7 | 8.5       |
| 77  | 18.0 | 83.1            | 67.7         | 4.5      | 67.1 | 11.6      |



**Table 64. Heating capacities 6 tons (gross) GEH072 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|----------|------|-----------|
| 77  | 21.0 | 84.2            | 68.7         | 4.5      | 68.1 | 15.2      |
| 86  | 9.0  | 85.6            | 70.0         | 4.6      | 69.6 | 3.4       |
| 86  | 12.0 | 89.0            | 73.2         | 4.6      | 73.1 | 5.6       |
| 86  | 15.0 | 91.2            | 75.3         | 4.7      | 75.4 | 8.2       |
| 86  | 18.0 | 92.7            | 76.6         | 4.7      | 77.0 | 11.2      |
| 86  | 21.0 | 93.8            | 77.6         | 4.7      | 78.1 | 14.7      |

**Note:** Performance data is tabulated for heating at 68°F DB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the heating correction factors for variations in entering air temperature. WLHP data is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. Rated GPM: 18.0 Minimum CFM 1920; Nominal CFM 2400, Maximum CFM 2880.

**Table 65. Fan correction factors 6 tons - GEH072**

| Entering CFM | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 1680         | 0.957            | 0.885             | 1.000               | 0.987            | 1.094               |
| 1890         | 0.981            | 0.943             | 1.000               | 0.994            | 1.041               |
| 2100         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 2310         | 1.016            | 1.054             | 1.000               | 1.005            | 0.967               |
| 2520         | 1.030            | 1.109             | 1.000               | 1.009            | 0.940               |

**Table 66. Correction factors for variation in entering air temperature 6 tons, GEH072**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 44.5                            | 0.734               | 1.052                  | 0.847                                      | 0.933 | 0.933 | 0.933 | 0.958 | 43                              | 0.743               | 0.743                  |
| 49.4                            | 0.734               | 1.041                  | 0.734                                      | 0.933 | 0.933 | 0.933 | 0.958 | 48                              | 0.788               | 0.788                  |
| 56.3                            | 0.838               | 1.031                  | 0.640                                      | 0.995 | 1.063 | 1.064 | 1.064 | 53                              | 0.837               | 0.836                  |
| 60.3                            | 0.901               | 1.020                  | 0.522                                      | 0.850 | 1.033 | 1.145 | 1.145 | 58                              | 0.888               | 0.888                  |
| 63.2                            | 0.949               | 1.010                  | 0.435                                      | 0.740 | 0.927 | 1.110 | 1.206 | 63                              | 0.942               | 0.942                  |
| 66.2                            | 1.000               | 1.000                  | —                                          | 0.625 | 0.813 | 1.000 | 1.182 | 68                              | 1.000               | 1.000                  |
| 72.1                            | 1.104               | 0.990                  | —                                          | —     | 0.580 | 0.769 | 0.958 | 73                              | 1.061               | 1.061                  |
| 77.1                            | 1.194               | 0.979                  | —                                          | —     | —     | 0.567 | 0.757 | 78                              | 1.125               | 1.125                  |

**Note:** \* = Sensible equals total capacity

**Table 67. Cooling capacities 6 tons (gross) – GEV072**

| EWT | GPM  | Total Cap Mbtuh | Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-----------------|-----------|------|---------------|--------------|------|-----------|
| 45  | 9.0  | 86.8            | 65.4      | 0.75 | 2.7           | 96.0         | 66.6 | 4.0       |
| 45  | 12.0 | 88.0            | 66.1      | 0.75 | 2.6           | 96.8         | 61.3 | 6.5       |
| 45  | 15.0 | 88.8            | 66.5      | 0.75 | 2.5           | 97.2         | 58.1 | 9.6       |
| 45  | 18.0 | 89.2            | 66.7      | 0.75 | 2.4           | 97.5         | 56.0 | 13.2      |
| 45  | 21.0 | 89.6            | 66.9      | 0.75 | 2.4           | 97.7         | 54.4 | 17.3      |
| 55  | 9.0  | 84.1            | 64.3      | 0.77 | 3.1           | 94.5         | 76.3 | 3.9       |
| 55  | 12.0 | 85.2            | 64.7      | 0.76 | 2.9           | 95.1         | 71.1 | 6.4       |
| 55  | 15.0 | 85.9            | 65.1      | 0.76 | 2.8           | 95.5         | 67.9 | 9.5       |
| 55  | 18.0 | 86.3            | 65.3      | 0.76 | 2.8           | 95.7         | 65.8 | 13.0      |
| 55  | 21.0 | 86.6            | 65.6      | 0.76 | 2.7           | 95.9         | 64.2 | 17.0      |

## Performance Data

**Table 67. Cooling capacities 6 tons (gross) – GEV072 (continued)**

| EWT | GPM  | Total Cap Mbtuh | Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------|------|---------------|--------------|-------|-----------|
| 59  | 9.0  | 83.0            | 63.7      | 0.77 | 3.2           | 94.0         | 80.2  | 3.8       |
| 59  | 12.0 | 84.1            | 64.2      | 0.76 | 3.1           | 94.6         | 75.0  | 6.3       |
| 59  | 15.0 | 84.8            | 64.6      | 0.76 | 3.0           | 94.9         | 71.8  | 9.3       |
| 59  | 18.0 | 85.2            | 64.8      | 0.76 | 2.9           | 95.1         | 69.7  | 12.7      |
| 59  | 21.0 | 85.5            | 64.9      | 0.76 | 2.9           | 95.3         | 68.2  | 16.7      |
| 68  | 9.0  | 80.5            | 62.6      | 0.78 | 3.6           | 92.9         | 88.9  | 3.6       |
| 68  | 12.0 | 81.6            | 63.1      | 0.77 | 3.4           | 93.4         | 83.8  | 5.9       |
| 68  | 15.0 | 82.2            | 63.4      | 0.77 | 3.3           | 93.6         | 80.7  | 8.7       |
| 68  | 18.0 | 82.7            | 63.6      | 0.77 | 3.3           | 93.8         | 78.6  | 11.9      |
| 68  | 21.0 | 82.9            | 63.7      | 0.77 | 3.2           | 94.0         | 77.1  | 15.6      |
| 77  | 9.0  | 79.2            | 62.0      | 0.78 | 4.1           | 93.2         | 97.8  | 3.5       |
| 77  | 12.0 | 80.4            | 62.5      | 0.78 | 3.9           | 93.7         | 92.7  | 5.7       |
| 77  | 15.0 | 81.1            | 62.8      | 0.77 | 3.8           | 94.0         | 89.6  | 8.5       |
| 77  | 18.0 | 81.5            | 63.0      | 0.77 | 3.7           | 94.2         | 87.5  | 11.6      |
| 77  | 21.0 | 81.8            | 63.2      | 0.77 | 3.7           | 94.3         | 86.0  | 15.2      |
| 86  | 9.0  | 76.6            | 60.9      | 0.80 | 4.6           | 92.4         | 106.6 | 3.4       |
| 86  | 12.0 | 77.7            | 61.4      | 0.79 | 4.4           | 92.8         | 101.6 | 5.6       |
| 86  | 15.0 | 78.4            | 61.6      | 0.79 | 4.3           | 93.0         | 98.5  | 8.2       |
| 86  | 18.0 | 78.8            | 61.8      | 0.78 | 4.2           | 93.2         | 96.4  | 11.2      |
| 86  | 21.0 | 79.0            | 61.9      | 0.78 | 4.2           | 93.3         | 94.9  | 14.7      |
| 95  | 9.0  | 73.6            | 59.6      | 0.81 | 5.2           | 91.3         | 115.4 | 3.4       |
| 95  | 12.0 | 74.7            | 60.1      | 0.80 | 5.0           | 91.7         | 110.4 | 5.7       |
| 95  | 15.0 | 75.4            | 60.4      | 0.80 | 4.9           | 92.0         | 107.3 | 8.5       |
| 95  | 18.0 | 75.8            | 60.6      | 0.80 | 4.8           | 92.1         | 105.3 | 11.7      |
| 95  | 21.0 | 76.1            | 60.7      | 0.80 | 4.7           | 92.2         | 103.8 | 15.3      |
| 105 | 9.0  | 70.1            | 58.1      | 0.83 | 5.9           | 90.2         | 125.2 | 3.3       |
| 105 | 12.0 | 71.2            | 58.6      | 0.82 | 5.7           | 90.6         | 120.2 | 5.5       |
| 105 | 15.0 | 71.9            | 58.9      | 0.82 | 5.5           | 90.8         | 117.2 | 8.2       |
| 105 | 18.0 | 72.3            | 59.1      | 0.82 | 5.5           | 90.9         | 115.2 | 11.4      |
| 105 | 21.0 | 72.6            | 59.2      | 0.82 | 5.4           | 91.0         | 113.7 | 14.9      |
| 115 | 9.0  | 66.3            | 56.5      | 0.85 | 6.7           | 89.1         | 134.9 | 3.2       |
| 115 | 12.0 | 67.4            | 57.0      | 0.85 | 6.5           | 89.4         | 130.0 | 5.4       |
| 115 | 15.0 | 68.0            | 57.3      | 0.84 | 6.3           | 89.6         | 127.0 | 8.0       |
| 115 | 18.0 | 68.5            | 57.5      | 0.84 | 6.2           | 89.7         | 125.0 | 11.1      |
| 115 | 21.0 | 68.7            | 57.6      | 0.84 | 6.2           | 89.8         | 123.6 | 14.5      |
| 120 | 9.0  | 64.3            | 55.7      | 0.87 | 7.1           | 88.5         | 139.8 | 3.2       |
| 120 | 12.0 | 65.4            | 56.2      | 0.86 | 6.9           | 88.8         | 134.9 | 5.3       |
| 120 | 15.0 | 66.0            | 56.4      | 0.86 | 6.7           | 89.0         | 131.9 | 7.9       |
| 120 | 18.0 | 66.4            | 56.6      | 0.85 | 6.7           | 89.1         | 130.0 | 10.9      |

**Table 67. Cooling capacities 6 tons (gross) – GEV072 (continued)**

| EWT | GPM  | Total Cap Mbtuh | Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------|------|---------------|--------------|-------|-----------|
| 120 | 21.0 | 66.7            | 56.7      | 0.85 | 6.6           | 89.2         | 128.5 | 14.3      |

**Note:** Performance data is tabulated for cooling at 80.6°F DB/66.2°F WB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the cooling correction factors for variations in entering air temperature. WLHP data is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. The minimum gpm/ton is 3.0 when the EWT is greater than 115°F and the EAT is less than 67°F WB. Rated GPM: 18.0 Minimum CFM 1920; Nominal CFM 2400, Maximum CFM 2880

**Table 68. Heating capacities 6 tons (gross) - GEV072**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Comp Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|---------------|------|-----------|
| 25  | 9.0  | 45.1            | 31.9         | 3.9           | 16.8 | 5.2       |
| 25  | 12.0 | 46.6            | 33.2         | 3.9           | 18.6 | 8.6       |
| 25  | 15.0 | 47.5            | 34.1         | 3.9           | 19.7 | 12.7      |
| 25  | 18.0 | 48.2            | 34.7         | 3.9           | 20.5 | 17.4      |
| 25  | 21.0 | 48.6            | 35.2         | 3.9           | 21.1 | 22.7      |
| 32  | 9.0  | 49.9            | 36.4         | 4.0           | 22.7 | 5.1       |
| 32  | 12.0 | 51.6            | 38.0         | 4.0           | 24.7 | 8.3       |
| 32  | 15.0 | 52.8            | 39.0         | 4.0           | 26.0 | 12.3      |
| 32  | 18.0 | 53.5            | 39.7         | 4.1           | 27.0 | 16.9      |
| 32  | 21.0 | 54.1            | 40.3         | 4.1           | 27.6 | 22.0      |
| 45  | 9.0  | 56.8            | 43.1         | 4.0           | 34.9 | 4.0       |
| 45  | 12.0 | 58.8            | 44.9         | 4.1           | 37.1 | 6.5       |
| 45  | 15.0 | 60.1            | 46.1         | 4.1           | 38.5 | 9.6       |
| 45  | 18.0 | 61.1            | 47.0         | 4.1           | 39.5 | 13.2      |
| 45  | 21.0 | 61.8            | 47.6         | 4.2           | 40.2 | 17.3      |
| 55  | 9.0  | 60.7            | 46.6         | 4.1           | 39.1 | 3.9       |
| 55  | 12.0 | 62.9            | 48.7         | 4.2           | 41.5 | 6.4       |
| 55  | 15.0 | 64.4            | 50.0         | 4.2           | 43.0 | 9.5       |
| 55  | 18.0 | 65.4            | 51.0         | 4.2           | 44.0 | 13.0      |
| 55  | 21.0 | 66.2            | 51.7         | 4.2           | 44.8 | 17.0      |
| 59  | 9.0  | 64.6            | 50.3         | 4.2           | 43.2 | 3.8       |
| 59  | 12.0 | 67.1            | 52.6         | 4.3           | 45.8 | 6.3       |
| 59  | 15.0 | 68.8            | 54.1         | 4.3           | 47.4 | 9.3       |
| 59  | 18.0 | 69.9            | 55.2         | 4.3           | 48.6 | 12.7      |
| 59  | 21.0 | 70.8            | 56.0         | 4.4           | 49.4 | 16.7      |
| 68  | 9.0  | 70.5            | 55.7         | 4.3           | 54.9 | 3.6       |
| 68  | 12.0 | 73.4            | 58.4         | 4.4           | 57.7 | 5.9       |
| 68  | 15.0 | 75.3            | 60.1         | 4.5           | 59.5 | 8.7       |
| 68  | 18.0 | 76.7            | 61.4         | 4.5           | 60.8 | 11.9      |
| 68  | 21.0 | 77.7            | 62.3         | 4.5           | 61.7 | 15.6      |
| 77  | 9.0  | 76.5            | 61.2         | 4.5           | 60.6 | 3.5       |
| 77  | 12.0 | 79.8            | 64.2         | 4.6           | 63.7 | 5.7       |
| 77  | 15.0 | 82.0            | 66.2         | 4.6           | 65.6 | 8.5       |
| 77  | 18.0 | 83.5            | 67.7         | 4.7           | 67.0 | 11.6      |
| 77  | 21.0 | 84.7            | 68.7         | 4.7           | 68.0 | 15.2      |



## Performance Data

**Table 68. Heating capacities 6 tons (gross) - GEV072 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Comp Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|---------------|------|-----------|
| 86  | 9.0  | 86.2            | 70.1         | 4.7           | 69.4 | 3.4       |
| 86  | 12.0 | 90.3            | 73.8         | 4.8           | 72.9 | 5.6       |
| 86  | 15.0 | 92.9            | 76.3         | 4.9           | 75.1 | 8.2       |
| 86  | 18.0 | 94.8            | 78.0         | 4.9           | 76.7 | 11.2      |
| 86  | 21.0 | 96.3            | 79.3         | 5.0           | 77.9 | 14.7      |

**Note:** Performance data is tabulated for heating at 68°F DB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the heating correction factors for variations in entering air temperature. WLHP data is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. Rated GPM: 18.0 Minimum CFM 1920; Nominal CFM 2400, Maximum CFM 2800.

**Table 69. Fan correction factors 6 tons - GEV072**

| Entering CFM | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 1680         | 0.955            | 0.885             | 1.000               | 0.987            | 1.097               |
| 1890         | 0.979            | 0.944             | 1.000               | 0.994            | 1.042               |
| 2100         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 2310         | 1.018            | 1.056             | 1.000               | 1.005            | 0.966               |
| 2520         | 1.034            | 1.111             | 1.000               | 1.009            | 0.939               |

**Table 70. Correction factors for variation in entering air temperature 6 tons, GEV072**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 44.5                            | 0.922               | 1.046                  | 0.804                                      | 1.049 | 1.115 | 1.183 | 1.255 | 43                              | 0.738               | 0.737                  |
| 49.4                            | 0.922               | 1.036                  | 0.773                                      | 1.049 | 1.115 | 1.183 | 1.255 | 48                              | 0.784               | 0.783                  |
| 56.3                            | 0.924               | 1.027                  | 0.636                                      | 0.997 | 1.117 | 1.185 | 1.255 | 53                              | 0.833               | 0.832                  |
| 60.3                            | 0.925               | 1.018                  | 0.519                                      | 0.849 | 1.035 | 1.187 | 1.257 | 58                              | 0.885               | 0.885                  |
| 63.2                            | 0.953               | 1.009                  | 0.434                                      | 0.739 | 0.928 | 1.113 | 1.258 | 63                              | 0.941               | 0.941                  |
| 66.2                            | 1.000               | 1.000                  | —                                          | 0.626 | 0.813 | 1.000 | 1.187 | 68                              | 1.000               | 1.000                  |
| 72.1                            | 1.109               | 0.991                  | —                                          | —     | 0.586 | 0.775 | 0.963 | 73                              | 1.063               | 1.063                  |
| 77.1                            | 1.214               | 0.983                  | —                                          | —     | —     | 0.579 | 0.769 | 78                              | 1.130               | 1.130                  |

**Note:** \* = Sensible equals total capacity

## Cooling and Heating Capacities 7.5 tons

**Table 71. Cooling capacities 7.5 tons (gross) - GEH090**

| EWT | GPM  | Gross Cap Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-----------------|-----------|------|----------|--------------|------|-----------|
| 45  | 11.3 | 103.2           | 79.1      | 0.77 | 3.3      | 114.3        | 65.3 | 3.9       |
| 45  | 15.0 | 104.4           | 79.8      | 0.76 | 3.1      | 115.0        | 60.3 | 6.4       |
| 45  | 18.8 | 105.2           | 80.1      | 0.76 | 3.0      | 115.4        | 57.3 | 9.5       |
| 45  | 22.5 | 105.6           | 80.3      | 0.76 | 2.9      | 115.7        | 55.3 | 13.0      |
| 45  | 26.3 | 106.0           | 80.4      | 0.76 | 2.9      | 115.8        | 53.8 | 17.0      |
| 55  | 11.3 | 100.0           | 77.7      | 0.78 | 3.7      | 112.7        | 75.0 | 3.8       |
| 55  | 15.0 | 101.3           | 78.3      | 0.77 | 3.5      | 113.3        | 70.1 | 6.3       |
| 55  | 18.8 | 102.0           | 78.6      | 0.77 | 3.4      | 113.7        | 67.1 | 9.3       |
| 55  | 22.5 | 102.4           | 79.0      | 0.77 | 3.4      | 113.9        | 65.1 | 12.7      |

**Table 71. Cooling capacities 7.5 tons (gross) - GEH090 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------|------|----------|--------------|-------|-----------|
| 55  | 26.3 | 102.7           | 79.1      | 0.77 | 3.3      | 114.0        | 63.7  | 16.7      |
| 59  | 11.3 | 98.7            | 77.2      | 0.78 | 3.9      | 112.1        | 78.9  | 3.8       |
| 59  | 15.0 | 100.0           | 77.7      | 0.78 | 3.7      | 112.7        | 74.0  | 6.2       |
| 59  | 18.8 | 100.7           | 78.0      | 0.77 | 3.6      | 113.0        | 71.1  | 9.1       |
| 59  | 22.5 | 101.1           | 78.2      | 0.77 | 3.5      | 113.2        | 69.1  | 12.5      |
| 59  | 26.3 | 101.5           | 78.4      | 0.77 | 3.5      | 113.4        | 67.6  | 16.3      |
| 68  | 11.3 | 95.8            | 76.0      | 0.79 | 4.4      | 110.8        | 87.7  | 3.5       |
| 68  | 15.0 | 97.0            | 76.5      | 0.79 | 4.2      | 111.3        | 82.9  | 5.8       |
| 68  | 18.8 | 97.7            | 76.8      | 0.79 | 4.1      | 111.6        | 79.9  | 8.5       |
| 68  | 22.5 | 98.2            | 77.0      | 0.78 | 4.0      | 111.8        | 78.0  | 11.7      |
| 68  | 26.3 | 98.5            | 77.1      | 0.78 | 3.9      | 112.0        | 76.5  | 15.3      |
| 77  | 11.3 | 92.0            | 74.5      | 0.81 | 5.0      | 109.0        | 96.4  | 3.4       |
| 77  | 15.0 | 93.3            | 75.2      | 0.81 | 4.8      | 109.5        | 91.6  | 5.6       |
| 77  | 18.8 | 93.9            | 75.4      | 0.80 | 4.6      | 109.7        | 88.7  | 8.3       |
| 77  | 22.5 | 94.4            | 75.6      | 0.80 | 4.5      | 109.9        | 86.8  | 11.4      |
| 77  | 26.3 | 94.7            | 75.7      | 0.80 | 4.5      | 110.0        | 85.4  | 14.9      |
| 86  | 11.3 | 89.9            | 73.6      | 0.82 | 5.6      | 108.9        | 105.4 | 3.3       |
| 86  | 15.0 | 91.1            | 74.1      | 0.81 | 5.4      | 109.3        | 100.6 | 5.4       |
| 86  | 18.8 | 91.8            | 74.4      | 0.81 | 5.2      | 109.6        | 97.7  | 8.0       |
| 86  | 22.5 | 92.2            | 74.6      | 0.81 | 5.1      | 109.7        | 95.8  | 11.0      |
| 86  | 26.3 | 92.5            | 74.7      | 0.81 | 5.1      | 109.8        | 94.4  | 14.4      |
| 95  | 11.3 | 86.4            | 72.2      | 0.84 | 6.3      | 107.8        | 114.2 | 4.0       |
| 95  | 15.0 | 87.7            | 72.7      | 0.83 | 6.0      | 108.2        | 109.5 | 6.6       |
| 95  | 18.8 | 88.4            | 73.0      | 0.83 | 5.9      | 108.4        | 106.6 | 9.8       |
| 95  | 22.5 | 88.8            | 73.2      | 0.82 | 5.8      | 108.5        | 104.7 | 13.4      |
| 95  | 26.3 | 89.1            | 73.3      | 0.82 | 5.7      | 108.6        | 103.3 | 17.7      |
| 105 | 11.3 | 82.3            | 70.4      | 0.86 | 7.1      | 106.7        | 124.0 | 3.9       |
| 105 | 15.0 | 83.6            | 71.0      | 0.85 | 6.9      | 107.0        | 119.3 | 6.4       |
| 105 | 18.8 | 84.3            | 71.3      | 0.85 | 6.7      | 107.2        | 116.5 | 9.5       |
| 105 | 22.5 | 84.7            | 71.5      | 0.84 | 6.6      | 107.3        | 114.6 | 13.0      |
| 105 | 26.3 | 85.0            | 71.6      | 0.84 | 6.6      | 107.4        | 113.2 | 17.2      |
| 115 | 11.3 | 78.0            | 68.8      | 0.88 | 8.1      | 105.6        | 133.8 | 3.8       |
| 115 | 15.0 | 79.2            | 69.1      | 0.87 | 7.8      | 105.8        | 129.2 | 6.2       |
| 115 | 18.8 | 79.9            | 69.5      | 0.87 | 7.7      | 106.0        | 126.3 | 9.3       |
| 115 | 22.5 | 80.3            | 69.7      | 0.87 | 7.6      | 106.1        | 124.5 | 12.7      |
| 115 | 26.3 | 80.6            | 69.8      | 0.87 | 7.5      | 106.2        | 123.1 | 16.7      |
| 120 | 11.3 | 75.8            | 67.9      | 0.90 | 8.6      | 105.0        | 138.7 | 3.7       |
| 120 | 15.0 | 76.9            | 68.4      | 0.89 | 8.3      | 105.3        | 134.1 | 6.1       |
| 120 | 18.8 | 77.5            | 68.4      | 0.88 | 8.2      | 105.4        | 131.3 | 9.1       |
| 120 | 22.5 | 77.9            | 68.8      | 0.88 | 8.1      | 105.5        | 129.4 | 12.6      |



## Performance Data

**Table 71. Cooling capacities 7.5 tons (gross) - GEH090 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------|------|----------|--------------|-------|-----------|
| 120 | 26.3 | 78.2            | 68.9      | 0.88 | 8.0      | 105.6        | 128.1 | 16.5      |

**Note:** Performance data is tabulated for cooling at 80.6°F DB/66.2°F WB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the cooling correction factors for variations in entering air temperature. WLHP data is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. The minimum gpm/ton is 3.0 when the EWT is greater than 115°F and the EAT is less than 67°F WB. Rated GPM: 22.5 Minimum CFM 2400; Nominal CFM 3000, Maximum CFM 3600.

**Table 72. Heating capacities 7.5 tons (gross) - GEH090**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|----------|------|-----------|
| 25  | 11.3 | 55.8            | 39.9         | 4.6      | 16.8 | 5.1       |
| 25  | 15.0 | 57.6            | 41.6         | 4.7      | 18.6 | 8.4       |
| 25  | 18.8 | 58.7            | 42.7         | 4.7      | 19.8 | 12.4      |
| 25  | 22.5 | 59.6            | 43.5         | 4.7      | 20.6 | 17.0      |
| 25  | 26.3 | 60.1            | 44.0         | 4.7      | 21.2 | 22.3      |
| 32  | 11.3 | 61.8            | 45.5         | 4.8      | 22.8 | 5.0       |
| 32  | 15.0 | 63.9            | 47.5         | 4.8      | 24.8 | 8.2       |
| 32  | 18.8 | 65.3            | 48.8         | 4.8      | 26.1 | 12.0      |
| 32  | 22.5 | 66.3            | 49.7         | 4.9      | 27.0 | 16.5      |
| 32  | 26.3 | 67.0            | 50.4         | 4.9      | 27.7 | 21.6      |
| 45  | 11.3 | 72.6            | 55.9         | 4.9      | 34.6 | 3.9       |
| 45  | 15.0 | 75.3            | 58.4         | 5.0      | 36.9 | 6.4       |
| 45  | 18.8 | 77.1            | 60.0         | 5.0      | 38.3 | 9.5       |
| 45  | 22.5 | 78.3            | 61.2         | 5.0      | 39.3 | 13.0      |
| 45  | 26.3 | 79.3            | 62.0         | 5.1      | 40.1 | 17.0      |
| 55  | 11.3 | 77.5            | 60.4         | 5.0      | 38.8 | 3.8       |
| 55  | 15.0 | 80.5            | 63.2         | 5.1      | 41.2 | 6.3       |
| 55  | 18.8 | 82.5            | 65.0         | 5.1      | 42.8 | 9.3       |
| 55  | 22.5 | 83.9            | 66.3         | 5.2      | 43.9 | 12.7      |
| 55  | 26.3 | 84.9            | 67.3         | 5.2      | 44.7 | 16.7      |
| 59  | 11.3 | 82.6            | 65.1         | 5.1      | 42.9 | 3.8       |
| 59  | 15.0 | 85.9            | 68.2         | 5.2      | 45.5 | 6.2       |
| 59  | 18.8 | 88.1            | 70.2         | 5.3      | 47.2 | 9.1       |
| 59  | 22.5 | 89.7            | 71.6         | 5.3      | 48.4 | 12.5      |
| 59  | 26.3 | 90.8            | 72.7         | 5.3      | 49.2 | 16.3      |
| 68  | 11.3 | 90.5            | 72.6         | 5.3      | 54.5 | 3.5       |
| 68  | 15.0 | 94.3            | 76.1         | 5.4      | 57.4 | 5.8       |
| 68  | 18.8 | 96.9            | 78.4         | 5.4      | 59.3 | 8.5       |
| 68  | 22.5 | 98.7            | 80.0         | 5.5      | 60.6 | 11.7      |
| 68  | 26.3 | 100.0           | 81.2         | 5.5      | 61.5 | 15.3      |
| 77  | 11.3 | 98.0            | 79.4         | 5.4      | 60.2 | 3.4       |
| 77  | 15.0 | 102.3           | 83.4         | 5.6      | 63.3 | 5.6       |
| 77  | 18.8 | 105.2           | 85.9         | 5.6      | 65.4 | 8.3       |
| 77  | 22.5 | 107.2           | 87.8         | 5.7      | 66.8 | 11.4      |
| 77  | 26.3 | 108.7           | 89.2         | 5.7      | 67.9 | 14.9      |

**Table 72. Heating capacities 7.5 tons (gross) - GEH090 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|----------|------|-----------|
| 86  | 11.3 | 110.1           | 90.5         | 5.8      | 69.0 | 3.3       |
| 86  | 15.0 | 115.3           | 95.1         | 5.9      | 72.6 | 5.4       |
| 86  | 18.8 | 118.7           | 98.2         | 6.0      | 74.9 | 8.0       |
| 86  | 22.5 | 121.2           | 100.4        | 6.1      | 76.5 | 11.0      |
| 86  | 26.3 | 123.0           | 102.0        | 6.2      | 77.8 | 14.4      |

**Note:** Performance data is tabulated for heating at 68°F DB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the heating correction factors for variations in entering air temperature. WLHP data is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. Rated GPM: 22.5 Minimum CFM 2400; Rated CFM 3000, Maximum CFM 3600.

**Table 73. Fan correction factors 7.5 tons - GEH090**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 2100         | 0.959            | 0.884             | 1.000               | 0.986            | 1.100               |
| 2363         | 0.981            | 0.943             | 1.000               | 0.994            | 1.044               |
| 2625         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 2888         | 1.016            | 1.058             | 1.000               | 1.005            | 0.965               |
| 3150         | 1.031            | 1.115             | 1.000               | 1.010            | 0.937               |

**Table 74. Correction factors for variation in entering air temperature 7.5 tons, GEH090**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 44.5                            | 0.924               | 1.048                  | 0.971                                      | 1.013 | 1.077 | 1.143 | 1.212 | 43                              | 0.742               | 0.735                  |
| 49.4                            | 0.924               | 1.038                  | 0.951                                      | 1.013 | 1.077 | 1.143 | 1.212 | 48                              | 0.788               | 0.782                  |
| 56.3                            | 0.926               | 1.028                  | 0.805                                      | 0.975 | 1.079 | 1.145 | 1.212 | 53                              | 0.837               | 0.831                  |
| 60.3                            | 0.928               | 1.019                  | 0.652                                      | 0.845 | 1.036 | 1.148 | 1.213 | 58                              | 0.888               | 0.884                  |
| 63.2                            | 0.953               | 1.009                  | 0.539                                      | 0.732 | 0.926 | 1.100 | 1.216 | 63                              | 0.943               | 0.940                  |
| 66.2                            | 1.000               | 1.000                  | —                                          | 0.614 | 0.808 | 1.000 | 1.166 | 68                              | 1.000               | 1.000                  |
| 72.1                            | 1.110               | 0.991                  | —                                          | —     | 0.573 | 0.768 | 0.962 | 73                              | 1.060               | 1.064                  |
| 77.1                            | 1.212               | 0.982                  | —                                          | —     | —     | 0.564 | 0.760 | 78                              | 1.123               | 1.131                  |

**Note:** \* = Sensible equals total capacity

**Table 75. Cooling capacities 7.5 tons (gross) - GEV090**

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|------|-----------|
| 45  | 11.3 | 104.9           | 79.9            | 0.76 | 3.3           | 116.0        | 65.6 | 3.9       |
| 45  | 15.0 | 106.3           | 80.5            | 0.76 | 3.1           | 116.8        | 60.6 | 6.5       |
| 45  | 18.8 | 107.2           | 80.9            | 0.75 | 3.0           | 117.3        | 57.5 | 9.5       |
| 45  | 22.5 | 107.7           | 81.1            | 0.75 | 2.9           | 117.6        | 55.4 | 13.1      |
| 45  | 26.3 | 108.1           | 81.3            | 0.75 | 2.9           | 117.9        | 54.0 | 16.6      |
| 55  | 11.3 | 101.5           | 78.5            | 0.77 | 3.7           | 114.1        | 75.3 | 3.8       |
| 55  | 15.0 | 102.9           | 79.1            | 0.77 | 3.5           | 114.9        | 70.3 | 6.3       |
| 55  | 18.8 | 103.7           | 79.4            | 0.77 | 3.4           | 115.3        | 67.3 | 9.3       |
| 55  | 22.5 | 104.3           | 79.6            | 0.76 | 3.3           | 115.6        | 65.3 | 12.8      |
| 55  | 26.3 | 104.6           | 79.8            | 0.76 | 3.3           | 115.8        | 63.8 | 16.3      |
| 59  | 11.3 | 100.1           | 77.9            | 0.78 | 3.9           | 113.4        | 79.2 | 3.8       |



## Performance Data

Table 75. Cooling capacities 7.5 tons (gross) - GEV090 (continued)

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|-------|-----------|
| 59  | 15.0 | 101.5           | 78.5            | 0.77 | 3.7           | 114.1        | 74.2  | 6.2       |
| 59  | 18.8 | 102.3           | 78.8            | 0.77 | 3.6           | 114.6        | 71.2  | 9.1       |
| 59  | 22.5 | 102.9           | 79.1            | 0.77 | 3.5           | 114.8        | 69.2  | 12.6      |
| 59  | 26.3 | 103.2           | 79.2            | 0.77 | 3.5           | 115.0        | 67.8  | 16.0      |
| 68  | 11.3 | 97.0            | 76.6            | 0.79 | 4.4           | 112.0        | 87.9  | 8.1       |
| 68  | 15.0 | 98.4            | 77.2            | 0.78 | 4.2           | 112.6        | 83.0  | 13.4      |
| 68  | 18.8 | 99.2            | 77.5            | 0.78 | 4.0           | 113.0        | 80.1  | 19.7      |
| 68  | 22.5 | 99.7            | 77.7            | 0.78 | 4.0           | 113.2        | 78.1  | 27.1      |
| 68  | 26.3 | 100.1           | 77.9            | 0.78 | 3.9           | 113.4        | 76.7  | 34.4      |
| 77  | 11.3 | 94.7            | 75.7            | 0.80 | 5.0           | 111.8        | 96.9  | 8.0       |
| 77  | 15.0 | 96.1            | 76.3            | 0.79 | 4.8           | 112.3        | 92.0  | 13.1      |
| 77  | 18.8 | 96.9            | 76.6            | 0.79 | 4.6           | 112.7        | 89.0  | 19.3      |
| 77  | 22.5 | 97.4            | 76.8            | 0.79 | 4.5           | 112.9        | 87.0  | 26.4      |
| 77  | 26.3 | 97.7            | 77.0            | 0.79 | 4.5           | 113.0        | 85.6  | 33.6      |
| 86  | 11.3 | 91.4            | 74.3            | 0.81 | 5.6           | 110.6        | 105.7 | 7.7       |
| 86  | 15.0 | 92.7            | 74.9            | 0.81 | 5.4           | 111.1        | 100.8 | 12.6      |
| 86  | 18.8 | 93.5            | 75.2            | 0.80 | 5.2           | 111.3        | 97.9  | 18.6      |
| 86  | 22.5 | 93.9            | 75.4            | 0.80 | 5.2           | 111.5        | 95.9  | 25.5      |
| 86  | 26.3 | 94.3            | 75.5            | 0.80 | 5.1           | 111.6        | 94.5  | 32.4      |
| 95  | 11.3 | 87.8            | 72.8            | 0.83 | 6.3           | 109.3        | 114.5 | 3.9       |
| 95  | 15.0 | 89.1            | 73.4            | 0.82 | 6.1           | 109.8        | 109.7 | 6.4       |
| 95  | 18.8 | 89.8            | 73.7            | 0.82 | 5.9           | 110.0        | 106.8 | 9.5       |
| 95  | 22.5 | 90.3            | 73.9            | 0.82 | 5.8           | 110.2        | 104.8 | 13.1      |
| 95  | 26.3 | 90.6            | 74.0            | 0.82 | 5.8           | 110.3        | 103.4 | 17.2      |
| 105 | 11.3 | 83.5            | 71.1            | 0.85 | 7.2           | 108.0        | 124.3 | 3.8       |
| 105 | 15.0 | 84.8            | 71.7            | 0.85 | 6.9           | 108.4        | 119.5 | 6.2       |
| 105 | 18.8 | 85.5            | 72.0            | 0.84 | 6.8           | 108.6        | 116.6 | 9.3       |
| 105 | 22.5 | 86.0            | 72.1            | 0.84 | 6.7           | 108.7        | 114.7 | 12.7      |
| 105 | 26.3 | 86.3            | 72.3            | 0.84 | 6.6           | 108.8        | 113.3 | 16.7      |
| 115 | 11.3 | 78.9            | 69.3            | 0.88 | 8.1           | 106.6        | 134.0 | 3.7       |
| 115 | 15.0 | 80.2            | 69.8            | 0.87 | 7.9           | 107.0        | 129.3 | 6.1       |
| 115 | 18.8 | 80.9            | 70.1            | 0.87 | 7.7           | 107.2        | 126.5 | 9.0       |
| 115 | 22.5 | 81.3            | 70.3            | 0.86 | 7.6           | 107.3        | 124.6 | 12.4      |
| 115 | 26.3 | 81.6            | 70.4            | 0.86 | 7.6           | 107.4        | 123.2 | 16.3      |
| 120 | 11.3 | 76.5            | 68.3            | 0.89 | 8.6           | 106.0        | 138.9 | 3.6       |
| 120 | 15.0 | 77.8            | 68.8            | 0.88 | 8.4           | 106.3        | 134.2 | 6.0       |
| 120 | 18.8 | 78.4            | 69.1            | 0.88 | 8.2           | 106.5        | 131.4 | 8.9       |
| 120 | 22.5 | 78.9            | 69.2            | 0.88 | 8.1           | 106.6        | 129.5 | 12.2      |



**Table 75. Cooling capacities 7.5 tons (gross) - GEV090 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|-------|-----------|
| 120 | 26.3 | 79.2            | 69.4            | 0.88 | 8.1           | 106.7        | 128.2 | 16.1      |

**Note:** Performance data is tabulated for cooling at 80.6°F DB/66.2°F WB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the cooling correction factors for variations in entering air temperature. WLHP data is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. The minimum gpm/ton is 3.0 when the EWT is greater than 115°F and the EAT is less than 67°F WB. Rated GPM: 22.5 Minimum CFM 2400; Nominal CFM 3000, Maximum CFM 3600.

**Table 76. Heating capacities 7.5 tons (gross) - GEV090**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Comp Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|---------------|------|-----------|
| 25  | 11.3 | 56.5            | 40.4         | 4.7           | 16.8 | 5.1       |
| 25  | 15.0 | 58.2            | 42.0         | 4.7           | 18.6 | 8.5       |
| 25  | 18.8 | 59.3            | 43.0         | 4.8           | 19.8 | 12.5      |
| 25  | 22.5 | 60.0            | 43.7         | 4.8           | 20.6 | 17.1      |
| 25  | 26.3 | 60.6            | 44.2         | 4.8           | 21.2 | 22.4      |
| 32  | 11.3 | 62.5            | 46.0         | 4.8           | 22.8 | 5.0       |
| 32  | 15.0 | 64.5            | 47.9         | 4.9           | 24.8 | 8.2       |
| 32  | 18.8 | 65.8            | 49.1         | 4.9           | 26.1 | 12.1      |
| 32  | 22.5 | 66.7            | 49.9         | 4.9           | 27.0 | 16.6      |
| 32  | 26.3 | 67.3            | 50.5         | 4.9           | 27.7 | 21.7      |
| 45  | 11.3 | 74.1            | 57.1         | 5.0           | 34.5 | 3.9       |
| 45  | 15.0 | 76.5            | 59.4         | 5.0           | 36.8 | 6.5       |
| 45  | 18.8 | 78.0            | 60.7         | 5.1           | 38.3 | 9.5       |
| 45  | 22.5 | 79.0            | 61.7         | 5.1           | 39.3 | 13.1      |
| 45  | 26.3 | 79.8            | 62.4         | 5.1           | 40.4 | 16.6      |
| 55  | 11.3 | 79.0            | 61.7         | 5.1           | 38.6 | 3.8       |
| 55  | 15.0 | 81.7            | 64.1         | 5.2           | 41.1 | 6.3       |
| 55  | 18.8 | 83.4            | 65.7         | 5.2           | 42.7 | 9.3       |
| 55  | 22.5 | 84.5            | 66.7         | 5.2           | 43.9 | 12.8      |
| 55  | 26.3 | 85.3            | 67.6         | 5.2           | 45.0 | 16.3      |
| 59  | 11.3 | 84.1            | 66.3         | 5.2           | 42.8 | 3.8       |
| 59  | 15.0 | 87.1            | 69.1         | 5.3           | 45.5 | 6.2       |
| 59  | 18.8 | 88.9            | 70.7         | 5.3           | 47.2 | 9.1       |
| 59  | 22.5 | 90.1            | 71.9         | 5.4           | 48.4 | 12.6      |
| 59  | 26.3 | 91.0            | 72.9         | 5.3           | 49.6 | 16.0      |
| 68  | 11.3 | 95.6            | 76.8         | 5.5           | 53.9 | 8.1       |
| 68  | 15.0 | 99.5            | 80.3         | 5.6           | 56.9 | 13.4      |
| 68  | 18.8 | 101.8           | 82.4         | 5.7           | 58.9 | 19.7      |
| 68  | 22.5 | 103.4           | 83.8         | 5.7           | 60.3 | 27.1      |
| 68  | 26.3 | 104.5           | 85.1         | 5.7           | 61.7 | 34.4      |
| 77  | 11.3 | 103.3           | 83.8         | 5.7           | 59.6 | 8.0       |
| 77  | 15.0 | 107.6           | 87.7         | 5.9           | 62.9 | 13.1      |
| 77  | 18.8 | 110.3           | 90.0         | 5.9           | 65.0 | 19.3      |
| 77  | 22.5 | 112.0           | 91.6         | 6.0           | 66.5 | 26.4      |
| 77  | 26.3 | 113.0           | 92.5         | 6.0           | 68.0 | 33.6      |



## Performance Data

**Table 76. Heating capacities 7.5 tons (gross) - GEV090 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Comp Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|---------------|------|-----------|
| 86  | 11.3 | 115.8           | 95.0         | 6.1           | 68.4 | 7.7       |
| 86  | 15.0 | 120.9           | 99.6         | 6.3           | 72.1 | 12.6      |
| 86  | 18.8 | 124.1           | 102.4        | 6.4           | 74.5 | 18.6      |
| 86  | 22.5 | 126.1           | 104.2        | 6.4           | 76.3 | 25.5      |
| 86  | 26.3 | 127.1           | 105.3        | 6.4           | 78.0 | 32.4      |

**Note:** Performance data is tabulated for heating at 68°F DB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the heating correction factors for variations in entering air temperature. WLHP data is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. Rated GPM: 22.5 Minimum CFM 2400; Nominal CFM 3000, Maximum CFM 3600.

**Table 77. Fan correction factors 7.5 tons - GEV090**

| Entering CFM | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 2100         | 0.960            | 0.884             | 1.000               | 0.985            | 1.108               |
| 2363         | 0.982            | 0.942             | 1.000               | 0.993            | 1.047               |
| 2625         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 2888         | 1.015            | 1.057             | 1.000               | 1.006            | 0.963               |
| 3150         | 1.028            | 1.112             | 1.001               | 1.011            | 0.932               |

**Table 78. Correction factors for variation in entering air temperature 7.5 tons, GEV090**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 44.5                            | 0.730               | 1.048                  | 0.827                                      | 0.827 | 0.910 | 0.909 | 1.037 | 43                              | 0.739               | 0.733                  |
| 49.4                            | 0.730               | 1.038                  | 0.910                                      | 0.910 | 0.910 | 0.909 | 1.037 | 48                              | 0.785               | 0.780                  |
| 56.3                            | 0.833               | 1.029                  | 0.807                                      | 0.986 | 1.038 | 1.038 | 1.037 | 53                              | 0.835               | 0.830                  |
| 60.3                            | 0.898               | 1.019                  | 0.656                                      | 0.846 | 1.034 | 1.118 | 1.118 | 58                              | 0.887               | 0.884                  |
| 63.2                            | 0.947               | 1.009                  | 0.544                                      | 0.735 | 0.925 | 1.108 | 1.180 | 63                              | 0.942               | 0.940                  |
| 66.2                            | 1.000               | 1.000                  | —                                          | 0.618 | 0.810 | 1.000 | 1.175 | 68                              | 1.000               | 1.000                  |
| 72.1                            | 1.111               | 0.991                  | —                                          | —     | 0.577 | 0.769 | 0.961 | 73                              | 1.061               | 1.064                  |
| 77.1                            | 1.213               | 0.982                  | —                                          | —     | —     | 0.568 | 0.762 | 78                              | 1.125               | 1.131                  |

**Note:** \* = Sensible equals total capacity

## Cooling and Heating Capacities 10 tons

**Table 79. Cooling capacities 10 tons (gross) - GEH120**

| EWT | GPM  | Gross Cap Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-----------------|-----------|------|----------|--------------|------|-----------|
| 45  | 15.0 | 143.1           | 107.9     | 0.75 | 4.2      | 157.5        | 65.9 | 4.9       |
| 45  | 20.0 | 144.7           | 108.6     | 0.75 | 4.0      | 158.4        | 60.8 | 8.1       |
| 45  | 25.0 | 145.6           | 109.0     | 0.75 | 3.9      | 158.8        | 57.7 | 11.9      |
| 45  | 30.0 | 146.1           | 109.2     | 0.75 | 3.8      | 159.1        | 55.6 | 16.3      |
| 45  | 35.0 | 146.5           | 109.4     | 0.75 | 3.8      | 159.3        | 54.1 | 21.4      |
| 55  | 15.0 | 139.1           | 106.2     | 0.76 | 4.8      | 155.6        | 75.6 | 4.8       |
| 55  | 20.0 | 140.7           | 106.9     | 0.76 | 4.6      | 156.3        | 70.6 | 7.9       |
| 55  | 25.0 | 141.6           | 107.3     | 0.76 | 4.4      | 156.8        | 67.5 | 11.7      |
| 55  | 30.0 | 142.2           | 107.5     | 0.76 | 4.4      | 157.0        | 65.4 | 16.0      |

**Table 79. Cooling capacities 10 tons (gross) - GEH120 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------|------|----------|--------------|-------|-----------|
| 55  | 35.0 | 142.5           | 107.7     | 0.76 | 4.3      | 157.2        | 63.9  | 20.9      |
| 59  | 15.0 | 137.5           | 105.6     | 0.77 | 5.1      | 154.8        | 79.5  | 4.7       |
| 59  | 20.0 | 139.1           | 106.2     | 0.76 | 4.8      | 155.5        | 74.5  | 7.8       |
| 59  | 25.0 | 140.0           | 106.6     | 0.76 | 4.7      | 156.0        | 71.4  | 11.4      |
| 59  | 30.0 | 140.5           | 106.8     | 0.76 | 4.6      | 156.2        | 69.4  | 15.7      |
| 59  | 35.0 | 140.9           | 107.0     | 0.76 | 4.5      | 156.4        | 67.9  | 20.5      |
| 68  | 15.0 | 133.6           | 103.9     | 0.78 | 5.7      | 153.1        | 88.3  | 4.4       |
| 68  | 20.0 | 135.3           | 104.6     | 0.77 | 5.4      | 153.8        | 83.3  | 7.3       |
| 68  | 25.0 | 136.2           | 105.0     | 0.77 | 5.3      | 154.2        | 80.3  | 10.7      |
| 68  | 30.0 | 136.7           | 105.2     | 0.77 | 5.2      | 154.4        | 78.2  | 14.7      |
| 68  | 35.0 | 137.1           | 105.4     | 0.77 | 5.1      | 154.6        | 76.8  | 19.2      |
| 77  | 15.0 | 128.3           | 101.8     | 0.79 | 6.5      | 150.3        | 97.0  | 4.3       |
| 77  | 20.0 | 129.9           | 102.5     | 0.79 | 6.2      | 150.9        | 92.1  | 7.1       |
| 77  | 25.0 | 130.7           | 102.8     | 0.79 | 6.0      | 151.2        | 89.1  | 10.5      |
| 77  | 30.0 | 131.2           | 103.0     | 0.79 | 5.9      | 151.4        | 87.1  | 14.3      |
| 77  | 35.0 | 131.6           | 103.2     | 0.78 | 5.8      | 151.5        | 85.7  | 18.8      |
| 86  | 15.0 | 124.9           | 100.5     | 0.80 | 7.2      | 149.4        | 105.9 | 4.2       |
| 86  | 20.0 | 126.7           | 101.2     | 0.80 | 6.9      | 150.1        | 101.0 | 6.9       |
| 86  | 25.0 | 127.7           | 101.6     | 0.80 | 6.7      | 150.5        | 98.1  | 10.1      |
| 86  | 30.0 | 128.3           | 101.8     | 0.79 | 6.6      | 150.7        | 96.1  | 13.9      |
| 86  | 35.0 | 128.6           | 102.0     | 0.79 | 6.5      | 150.8        | 94.6  | 18.1      |
| 95  | 15.0 | 120.1           | 98.4      | 0.82 | 8.1      | 147.6        | 114.7 | 4.0       |
| 95  | 20.0 | 121.9           | 99.2      | 0.81 | 7.7      | 148.3        | 109.8 | 6.7       |
| 95  | 25.0 | 122.8           | 99.6      | 0.81 | 7.6      | 148.6        | 106.9 | 9.9       |
| 95  | 30.0 | 123.4           | 99.8      | 0.81 | 7.4      | 148.8        | 104.9 | 13.7      |
| 95  | 35.0 | 123.8           | 100.0     | 0.81 | 7.4      | 148.9        | 103.5 | 18.0      |
| 105 | 15.0 | 114.4           | 96.0      | 0.84 | 9.2      | 145.7        | 124.4 | 3.9       |
| 105 | 20.0 | 116.1           | 96.7      | 0.83 | 8.8      | 146.3        | 119.6 | 6.5       |
| 105 | 25.0 | 117.1           | 97.1      | 0.83 | 8.6      | 146.6        | 116.7 | 9.6       |
| 105 | 30.0 | 117.7           | 97.5      | 0.83 | 8.5      | 146.8        | 114.8 | 13.3      |
| 105 | 35.0 | 118.0           | 97.6      | 0.83 | 8.5      | 146.9        | 113.4 | 17.5      |
| 115 | 15.0 | 108.3           | 93.6      | 0.86 | 10.4     | 143.8        | 134.1 | 3.8       |
| 115 | 20.0 | 110.0           | 94.3      | 0.86 | 10.1     | 144.3        | 129.4 | 6.3       |
| 115 | 25.0 | 110.9           | 94.6      | 0.85 | 9.9      | 144.6        | 126.5 | 9.4       |
| 115 | 30.0 | 111.4           | 94.8      | 0.85 | 9.8      | 144.7        | 124.6 | 13.0      |
| 115 | 35.0 | 111.8           | 95.0      | 0.85 | 9.7      | 144.8        | 123.2 | 17.0      |
| 120 | 15.0 | 105.1           | 92.3      | 0.88 | 11.1     | 142.9        | 138.9 | 3.8       |
| 120 | 20.0 | 106.8           | 93.0      | 0.87 | 10.7     | 143.4        | 134.3 | 6.3       |
| 120 | 25.0 | 107.6           | 93.3      | 0.87 | 10.5     | 143.6        | 131.4 | 9.3       |
| 120 | 30.0 | 108.1           | 93.5      | 0.86 | 10.4     | 143.7        | 129.5 | 12.8      |



## Performance Data

**Table 79. Cooling capacities 10 tons (gross) - GEH120 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------|------|----------|--------------|-------|-----------|
| 120 | 35.0 | 108.5           | 93.7      | 0.86 | 10.4     | 143.8        | 128.2 | 16.8      |

**Note:** Performance data is tabulated for cooling at 80.6°F DB/66.2°F WB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the cooling correction factors for variations in entering air temperature. WLHP data is performance data at ANSI/AHRI/ASHRAE/ISO 13256-1. For ANSI/AHRI/ASHRAE/ISO 13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. The minimum gpm/ton is 3.0 when the EWT is greater than 115°F and the EAT is less than 67°F WB. Rated GPM: 30.0 Minimum CFM 3200; Nominal CFM 4000, Maximum CFM 4800.

**Table 80. Heating capacities 10 tons (gross) - GEH120**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|----------|------|-----------|
| 25  | 15.0 | 75.9            | 55.8         | 5.9      | 16.7 | 6.6       |
| 25  | 20.0 | 78.3            | 58.0         | 5.9      | 18.5 | 10.9      |
| 25  | 25.0 | 79.8            | 59.5         | 6.0      | 19.7 | 16.1      |
| 25  | 30.0 | 80.9            | 60.5         | 6.0      | 20.5 | 22.1      |
| 25  | 35.0 | 81.7            | 61.3         | 6.0      | 21.1 | 28.9      |
| 32  | 15.0 | 83.8            | 63.2         | 6.0      | 22.6 | 6.4       |
| 32  | 20.0 | 86.6            | 65.9         | 6.1      | 24.7 | 10.6      |
| 32  | 25.0 | 88.5            | 67.6         | 6.1      | 26.0 | 15.6      |
| 32  | 30.0 | 89.8            | 68.9         | 6.1      | 26.9 | 21.4      |
| 32  | 35.0 | 90.7            | 69.8         | 6.1      | 27.6 | 28.0      |
| 45  | 15.0 | 101.5           | 79.8         | 6.4      | 34.0 | 4.9       |
| 45  | 20.0 | 105.1           | 83.2         | 6.4      | 36.4 | 8.1       |
| 45  | 25.0 | 107.5           | 85.4         | 6.5      | 38.0 | 11.9      |
| 45  | 30.0 | 109.2           | 87.0         | 6.5      | 39.0 | 16.3      |
| 45  | 35.0 | 110.4           | 88.2         | 6.5      | 39.8 | 21.4      |
| 55  | 15.0 | 108.0           | 85.9         | 6.5      | 38.2 | 4.8       |
| 55  | 20.0 | 112.0           | 89.7         | 6.6      | 40.8 | 7.9       |
| 55  | 25.0 | 114.7           | 92.1         | 6.6      | 42.4 | 11.7      |
| 55  | 30.0 | 116.5           | 93.9         | 6.7      | 43.6 | 16.0      |
| 55  | 35.0 | 117.9           | 95.2         | 6.7      | 44.4 | 20.9      |
| 59  | 15.0 | 114.7           | 92.1         | 6.6      | 42.4 | 4.7       |
| 59  | 20.0 | 119.1           | 96.3         | 6.7      | 45.1 | 7.8       |
| 59  | 25.0 | 122.1           | 99.0         | 6.8      | 46.9 | 11.4      |
| 59  | 30.0 | 124.1           | 100.9        | 6.8      | 48.1 | 15.7      |
| 59  | 35.0 | 125.6           | 102.3        | 6.8      | 49.0 | 20.5      |
| 68  | 15.0 | 125.4           | 102.2        | 6.8      | 54.0 | 4.4       |
| 68  | 20.0 | 130.7           | 107.2        | 6.9      | 57.0 | 7.3       |
| 68  | 25.0 | 134.2           | 110.4        | 7.0      | 58.9 | 10.7      |
| 68  | 30.0 | 136.7           | 112.6        | 7.0      | 60.3 | 14.7      |
| 68  | 35.0 | 138.5           | 114.3        | 7.1      | 61.3 | 19.2      |
| 77  | 15.0 | 135.6           | 111.6        | 7.0      | 59.6 | 4.3       |
| 77  | 20.0 | 141.6           | 117.1        | 7.2      | 62.9 | 7.1       |
| 77  | 25.0 | 145.5           | 120.7        | 7.3      | 65.0 | 10.5      |
| 77  | 30.0 | 148.2           | 123.2        | 7.3      | 66.5 | 14.3      |
| 77  | 35.0 | 150.3           | 125.1        | 7.4      | 67.6 | 18.8      |

**Table 80. Heating capacities 10 tons (gross) - GEH120 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|----------|------|-----------|
| 86  | 15.0 | 152.1           | 126.7        | 7.4      | 68.5 | 4.2       |
| 86  | 20.0 | 159.1           | 133.1        | 7.6      | 72.2 | 6.9       |
| 86  | 25.0 | 163.8           | 137.2        | 7.8      | 74.6 | 10.1      |
| 86  | 30.0 | 167.0           | 140.2        | 7.9      | 76.3 | 13.9      |
| 86  | 35.0 | 169.5           | 142.4        | 8.0      | 77.5 | 18.1      |

**Note:** Performance data is tabulated for heating at 68°F DB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the heating correction factors for variations in entering air temperature. WLHP data is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. Rated GPM: 30.0 Minimum CFM 3200; Nominal CFM 4000, Maximum CFM 4800.

**Table 81. Fan correction factors 10 tons - GEH120**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 2800         | 0.959            | 0.885             | 0.999               | 0.986            | 1.099               |
| 3150         | 0.982            | 0.943             | 1.000               | 0.994            | 1.043               |
| 3500         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 3850         | 1.015            | 1.055             | 1.000               | 1.005            | 0.965               |
| 4200         | 1.028            | 1.111             | 1.001               | 1.010            | 0.937               |

**Table 82. Correction factors for variation in entering air temperature 10 tons, GEH120**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 44.5                            | 0.730               | 1.046                  | 0.836                                      | 0.921 | 0.920 | 0.920 | 0.945 | 43                              | 0.734               | 0.734                  |
| 49.4                            | 0.730               | 1.037                  | 0.921                                      | 0.921 | 0.920 | 0.920 | 0.945 | 48                              | 0.781               | 0.781                  |
| 56.3                            | 0.834               | 1.027                  | 0.810                                      | 0.995 | 1.050 | 1.050 | 1.050 | 53                              | 0.831               | 0.831                  |
| 60.3                            | 0.898               | 1.018                  | 0.659                                      | 0.848 | 1.034 | 1.132 | 1.132 | 58                              | 0.884               | 0.884                  |
| 63.2                            | 0.947               | 1.009                  | 0.549                                      | 0.738 | 0.926 | 1.112 | 1.194 | 63                              | 0.941               | 0.941                  |
| 66.2                            | 1.000               | 1.000                  | —                                          | 0.622 | 0.811 | 1.000 | 1.186 | 68                              | 1.000               | 1.000                  |
| 72.1                            | 1.109               | 0.991                  | —                                          | —     | 0.580 | 0.771 | 0.960 | 73                              | 1.063               | 1.063                  |
| 77.1                            | 1.208               | 0.982                  | —                                          | —     | —     | 0.571 | 0.762 | 78                              | 1.129               | 1.129                  |

**Note:** \* = Sensible equals total capacity

**Table 83. Cooling capacities 10 tons (gross) - GEV120**

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|------|-----------|
| 45  | 15.0 | 143.8           | 108.1           | 0.75 | 4.2           | 158.2        | 66.1 | 4.9       |
| 45  | 20.0 | 145.4           | 108.8           | 0.75 | 4.0           | 159.1        | 60.9 | 8.1       |
| 45  | 25.0 | 146.3           | 109.2           | 0.75 | 3.9           | 159.6        | 57.8 | 11.9      |
| 45  | 30.0 | 146.9           | 109.7           | 0.75 | 3.8           | 159.9        | 55.7 | 16.3      |
| 45  | 35.0 | 147.2           | 109.8           | 0.75 | 3.8           | 160.1        | 54.1 | 21.4      |
| 55  | 15.0 | 139.7           | 106.4           | 0.76 | 4.8           | 156.2        | 75.8 | 4.8       |
| 55  | 20.0 | 141.3           | 107.1           | 0.76 | 4.6           | 157.0        | 70.7 | 7.9       |
| 55  | 25.0 | 142.3           | 107.5           | 0.76 | 4.5           | 157.4        | 67.6 | 11.7      |
| 55  | 30.0 | 142.8           | 107.7           | 0.75 | 4.4           | 157.7        | 65.5 | 16.0      |
| 55  | 35.0 | 143.2           | 107.9           | 0.75 | 4.3           | 157.9        | 64.0 | 20.9      |
| 59  | 15.0 | 138.0           | 105.5           | 0.76 | 5.1           | 155.4        | 79.7 | 4.7       |



## Performance Data

Table 83. Cooling capacities 10 tons (gross) - GEV120 (continued)

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|-------|-----------|
| 59  | 20.0 | 139.7           | 106.3           | 0.76 | 4.8           | 156.2        | 74.6  | 7.8       |
| 59  | 25.0 | 140.6           | 106.7           | 0.76 | 4.7           | 156.6        | 71.5  | 11.4      |
| 59  | 30.0 | 141.2           | 107.0           | 0.76 | 4.6           | 156.9        | 69.4  | 15.7      |
| 59  | 35.0 | 141.5           | 107.2           | 0.76 | 4.6           | 157.1        | 68.0  | 20.5      |
| 68  | 15.0 | 134.1           | 103.8           | 0.77 | 5.7           | 153.6        | 88.4  | 4.4       |
| 68  | 20.0 | 135.8           | 104.5           | 0.77 | 5.4           | 154.4        | 83.4  | 7.3       |
| 68  | 25.0 | 136.7           | 105.1           | 0.77 | 5.3           | 154.8        | 80.3  | 10.7      |
| 68  | 30.0 | 137.3           | 105.3           | 0.77 | 5.2           | 155.0        | 78.3  | 14.7      |
| 68  | 35.0 | 137.7           | 105.5           | 0.77 | 5.1           | 155.2        | 76.8  | 19.2      |
| 77  | 15.0 | 129.9           | 102.3           | 0.79 | 6.5           | 152.0        | 97.2  | 4.3       |
| 77  | 20.0 | 131.5           | 103.0           | 0.78 | 6.2           | 152.6        | 92.2  | 7.1       |
| 77  | 25.0 | 132.5           | 103.3           | 0.78 | 6.0           | 152.9        | 89.2  | 10.5      |
| 77  | 30.0 | 133.0           | 103.6           | 0.78 | 5.9           | 153.1        | 87.2  | 14.3      |
| 77  | 35.0 | 133.4           | 103.7           | 0.78 | 5.8           | 153.3        | 85.8  | 18.8      |
| 86  | 15.0 | 125.3           | 100.6           | 0.80 | 7.2           | 149.8        | 106.0 | 4.2       |
| 86  | 20.0 | 127.0           | 101.3           | 0.80 | 6.9           | 150.4        | 101.1 | 6.9       |
| 86  | 25.0 | 128.0           | 101.7           | 0.79 | 6.7           | 150.8        | 98.1  | 10.1      |
| 86  | 30.0 | 128.6           | 102.0           | 0.79 | 6.6           | 151.0        | 96.1  | 13.8      |
| 86  | 35.0 | 129.0           | 102.1           | 0.79 | 6.5           | 151.2        | 94.7  | 18.1      |
| 95  | 15.0 | 120.5           | 98.6            | 0.82 | 8.1           | 148.0        | 114.8 | 4.0       |
| 95  | 20.0 | 122.2           | 99.3            | 0.81 | 7.7           | 148.6        | 109.9 | 6.7       |
| 95  | 25.0 | 123.2           | 99.7            | 0.81 | 7.6           | 149.0        | 107.0 | 9.9       |
| 95  | 30.0 | 123.8           | 100.0           | 0.81 | 7.5           | 149.2        | 105.0 | 13.7      |
| 95  | 35.0 | 124.2           | 100.1           | 0.81 | 7.4           | 149.3        | 103.6 | 18.0      |
| 105 | 15.0 | 114.8           | 96.2            | 0.84 | 9.2           | 146.1        | 124.5 | 3.9       |
| 105 | 20.0 | 116.5           | 97.0            | 0.83 | 8.8           | 146.7        | 119.7 | 6.5       |
| 105 | 25.0 | 117.5           | 97.4            | 0.83 | 8.7           | 147.0        | 116.8 | 9.6       |
| 105 | 30.0 | 118.1           | 97.6            | 0.83 | 8.5           | 147.2        | 114.8 | 13.3      |
| 105 | 35.0 | 118.4           | 97.7            | 0.83 | 8.5           | 147.3        | 113.4 | 17.5      |
| 115 | 15.0 | 108.8           | 93.8            | 0.86 | 10.4          | 144.3        | 134.2 | 3.8       |
| 115 | 20.0 | 110.5           | 94.5            | 0.86 | 10.1          | 144.8        | 129.5 | 6.3       |
| 115 | 25.0 | 111.4           | 94.9            | 0.85 | 9.9           | 145.1        | 126.6 | 9.4       |
| 115 | 30.0 | 111.9           | 95.1            | 0.85 | 9.8           | 145.2        | 124.7 | 13.0      |
| 115 | 35.0 | 112.2           | 95.2            | 0.85 | 9.7           | 145.3        | 123.3 | 17.0      |
| 120 | 15.0 | 105.7           | 92.5            | 0.88 | 11.1          | 143.4        | 139.1 | 3.8       |
| 120 | 20.0 | 107.3           | 93.2            | 0.87 | 10.7          | 143.9        | 134.3 | 6.3       |
| 120 | 25.0 | 108.1           | 93.5            | 0.87 | 10.6          | 144.1        | 131.5 | 9.3       |
| 120 | 30.0 | 108.6           | 93.8            | 0.86 | 10.4          | 144.3        | 129.6 | 12.8      |

**Table 83. Cooling capacities 10 tons (gross) - GEV120 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|-------|-----------|
| 120 | 35.0 | 109.0           | 93.9            | 0.86 | 10.4          | 144.4        | 128.2 | 16.8      |

**Note:** Performance data is tabulated for cooling at 80.6°F DB/66.2°F WB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the cooling correction factors for variations in entering air temperature. WLHP data is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. The minimum gpm/ton is 3.0 when the EWT is greater than 115°F and the EAT is less than 67°F WB. Rated GPM: 30.0 Minimum CFM 3200; Nominal CFM 4000, Maximum CFM 4800.

**Table 84. Heating capacities 10 tons (gross) - GEV120**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Comp Power kW | LWT  | EWT  |
|-----|------|-----------------|--------------|---------------|------|------|
| 25  | 15.0 | 79.1            | 58.3         | 6.1           | 16.4 | 6.6  |
| 25  | 20.0 | 81.7            | 60.7         | 6.1           | 18.3 | 10.9 |
| 25  | 25.0 | 83.4            | 62.4         | 6.2           | 19.5 | 16.1 |
| 25  | 30.0 | 84.6            | 63.5         | 6.2           | 20.3 | 22.1 |
| 25  | 35.0 | 85.5            | 64.3         | 6.2           | 20.9 | 28.9 |
| 32  | 15.0 | 87.5            | 66.2         | 6.3           | 22.3 | 6.4  |
| 32  | 20.0 | 90.7            | 69.1         | 6.3           | 24.4 | 10.6 |
| 32  | 25.0 | 92.7            | 71.0         | 6.4           | 25.7 | 15.6 |
| 32  | 30.0 | 94.2            | 72.4         | 6.4           | 26.7 | 21.4 |
| 32  | 35.0 | 95.2            | 73.4         | 6.4           | 27.4 | 28.0 |
| 45  | 15.0 | 99.9            | 77.8         | 6.5           | 34.4 | 4.9  |
| 45  | 20.0 | 103.6           | 81.3         | 6.5           | 36.7 | 8.1  |
| 45  | 25.0 | 106.0           | 83.6         | 6.6           | 38.2 | 11.9 |
| 45  | 30.0 | 107.7           | 85.2         | 6.6           | 39.2 | 16.3 |
| 45  | 35.0 | 109.0           | 86.3         | 6.7           | 40.0 | 21.4 |
| 55  | 15.0 | 106.6           | 84.1         | 6.6           | 38.5 | 4.8  |
| 55  | 20.0 | 110.8           | 88.0         | 6.7           | 41.0 | 7.9  |
| 55  | 25.0 | 113.5           | 90.5         | 6.7           | 42.6 | 11.7 |
| 55  | 30.0 | 115.4           | 92.2         | 6.8           | 43.7 | 16.0 |
| 55  | 35.0 | 116.8           | 93.5         | 6.8           | 44.5 | 20.9 |
| 59  | 15.0 | 113.5           | 90.5         | 6.7           | 42.6 | 4.7  |
| 59  | 20.0 | 118.1           | 94.8         | 6.8           | 45.3 | 7.8  |
| 59  | 25.0 | 121.1           | 97.5         | 6.9           | 47.0 | 11.4 |
| 59  | 30.0 | 123.2           | 99.5         | 7.0           | 48.2 | 15.7 |
| 59  | 35.0 | 124.7           | 100.9        | 7.0           | 49.1 | 20.5 |
| 68  | 15.0 | 125.2           | 101.5        | 7.0           | 54.2 | 4.4  |
| 68  | 20.0 | 130.4           | 106.3        | 7.1           | 57.1 | 7.3  |
| 68  | 25.0 | 133.8           | 109.4        | 7.2           | 59.0 | 10.7 |
| 68  | 30.0 | 136.2           | 111.6        | 7.2           | 60.4 | 14.7 |
| 68  | 35.0 | 138.0           | 113.2        | 7.3           | 61.4 | 19.2 |
| 77  | 15.0 | 135.3           | 110.7        | 7.2           | 59.8 | 4.3  |
| 77  | 20.0 | 141.2           | 116.1        | 7.3           | 63.1 | 7.1  |
| 77  | 25.0 | 145.0           | 119.6        | 7.4           | 65.1 | 10.5 |
| 77  | 30.0 | 147.7           | 122.0        | 7.5           | 66.6 | 14.3 |
| 77  | 35.0 | 149.7           | 123.8        | 7.6           | 67.7 | 18.8 |



## Performance Data

**Table 84. Heating capacities 10 tons (gross) - GEV120 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Comp Power kW | LWT  | EWT  |
|-----|------|-----------------|--------------|---------------|------|------|
| 86  | 15.0 | 151.6           | 125.6        | 7.6           | 68.7 | 4.2  |
| 86  | 20.0 | 158.5           | 131.8        | 7.8           | 72.3 | 6.9  |
| 86  | 25.0 | 163.0           | 135.8        | 8.0           | 74.7 | 10.1 |
| 86  | 30.0 | 166.2           | 138.7        | 8.1           | 76.4 | 13.8 |
| 86  | 35.0 | 168.7           | 140.8        | 8.2           | 77.6 | 18.1 |

**Note:** Performance data is tabulated for heating at 68°F DB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the heating correction factors for variations in entering air temperature. WLHP data is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. Rated GPM: 30.0 Minimum CFM 3200; Nominal CFM 4000, Maximum CFM 4800.

**Table 85. Fan correction factors 10 tons - GEV120**

| Entering CFM | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 2800         | 0.958            | 0.885             | 0.999               | 0.986            | 1.102               |
| 3150         | 0.981            | 0.943             | 1.000               | 0.994            | 1.045               |
| 3500         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 3850         | 1.017            | 1.056             | 1.000               | 1.005            | 0.965               |
| 4200         | 1.031            | 1.112             | 1.001               | 1.010            | 0.936               |

**Table 86. Correction factors for variation in entering air temperature 10 tons, GEV120**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 44.5                            | 0.927               | 1.046                  | 0.808                                      | 1.098 | 1.105 | 1.172 | 1.242 | 43                              | 0.733               | 0.734                  |
| 49.4                            | 0.927               | 1.037                  | 0.774                                      | 1.040 | 1.105 | 1.172 | 1.242 | 48                              | 0.780               | 0.781                  |
| 56.3                            | 0.928               | 1.027                  | 0.642                                      | 0.999 | 1.107 | 1.174 | 1.242 | 53                              | 0.830               | 0.831                  |
| 60.3                            | 0.929               | 1.018                  | 0.523                                      | 0.848 | 1.037 | 1.176 | 1.244 | 58                              | 0.884               | 0.884                  |
| 63.2                            | 0.955               | 1.009                  | 0.435                                      | 0.738 | 0.926 | 1.116 | 1.245 | 63                              | 0.940               | 0.940                  |
| 66.2                            | 1.000               | 1.000                  | —                                          | 0.622 | 0.811 | 1.000 | 1.190 | 68                              | 1.000               | 1.000                  |
| 72.1                            | 1.105               | 0.991                  | —                                          | —     | 0.580 | 0.770 | 0.960 | 73                              | 1.063               | 1.063                  |
| 77.1                            | 1.203               | 0.982                  | —                                          | —     | —     | 0.570 | 0.761 | 78                              | 1.130               | 1.130                  |

**Note:** \* = Sensible equals total capacity

## Cooling and Heating Capacities 12.5 tons

**Table 87. Cooling capacities 12.5 tons (gross) - GEH150**

| EWT | GPM  | Gross Cap Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-----------------|-----------|------|----------|--------------|------|-----------|
| 45  | 18.8 | 181.1           | 135.9     | 0.75 | 5.4      | 199.5        | 66.2 | 6.0       |
| 45  | 25.0 | 183.6           | 136.9     | 0.75 | 4.9      | 200.5        | 61.0 | 9.9       |
| 45  | 31.3 | 185.1           | 137.6     | 0.74 | 4.7      | 201.1        | 57.9 | 14.6      |
| 45  | 37.5 | 186.0           | 138.0     | 0.74 | 4.5      | 201.5        | 55.8 | 20.0      |
| 45  | 43.8 | 186.7           | 138.3     | 0.74 | 4.4      | 201.7        | 54.2 | 26.2      |
| 55  | 18.8 | 175.3           | 133.4     | 0.76 | 6.4      | 197.2        | 75.9 | 5.9       |
| 55  | 25.0 | 177.8           | 134.5     | 0.76 | 6.0      | 198.2        | 70.8 | 9.7       |
| 55  | 31.3 | 179.2           | 135.1     | 0.75 | 5.7      | 198.7        | 67.7 | 14.3      |
| 55  | 37.5 | 180.1           | 135.4     | 0.75 | 5.6      | 199.1        | 65.6 | 19.6      |



**Table 87. Cooling capacities 12.5 tons (gross) - GEH150 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------|------|----------|--------------|-------|-----------|
| 55  | 43.8 | 180.7           | 135.7     | 0.75 | 5.4      | 199.3        | 64.1  | 25.7      |
| 59  | 18.8 | 173.0           | 132.4     | 0.77 | 6.8      | 196.3        | 79.8  | 5.8       |
| 59  | 25.0 | 175.4           | 133.5     | 0.76 | 6.4      | 197.2        | 74.7  | 9.5       |
| 59  | 31.3 | 176.8           | 134.1     | 0.76 | 6.1      | 197.8        | 71.6  | 14.0      |
| 59  | 37.5 | 177.7           | 134.4     | 0.76 | 6.0      | 198.1        | 69.5  | 19.2      |
| 59  | 43.8 | 178.3           | 134.7     | 0.76 | 5.9      | 198.4        | 68.0  | 25.2      |
| 68  | 18.8 | 167.6           | 130.2     | 0.78 | 7.8      | 194.2        | 88.5  | 5.4       |
| 68  | 25.0 | 170.0           | 131.2     | 0.77 | 7.4      | 195.1        | 83.5  | 8.9       |
| 68  | 31.3 | 171.4           | 131.8     | 0.77 | 7.1      | 195.7        | 80.5  | 13.1      |
| 68  | 37.5 | 172.3           | 132.1     | 0.77 | 7.0      | 196.0        | 78.4  | 18.0      |
| 68  | 43.8 | 172.9           | 132.4     | 0.77 | 6.8      | 196.2        | 76.9  | 23.5      |
| 77  | 18.8 | 163.6           | 128.5     | 0.79 | 8.9      | 193.9        | 97.5  | 5.3       |
| 77  | 25.0 | 165.8           | 129.5     | 0.78 | 8.4      | 194.6        | 92.5  | 8.7       |
| 77  | 31.3 | 167.1           | 130.0     | 0.78 | 8.2      | 195.0        | 89.4  | 12.8      |
| 77  | 37.5 | 167.9           | 130.3     | 0.78 | 8.0      | 195.3        | 87.4  | 17.6      |
| 77  | 43.8 | 168.4           | 130.5     | 0.78 | 7.9      | 195.5        | 85.9  | 23.0      |
| 86  | 18.8 | 158.2           | 126.3     | 0.80 | 9.9      | 192.1        | 106.4 | 5.1       |
| 86  | 25.0 | 160.5           | 127.2     | 0.79 | 9.5      | 192.9        | 101.4 | 8.4       |
| 86  | 31.3 | 161.7           | 127.8     | 0.79 | 9.3      | 193.3        | 98.4  | 12.4      |
| 86  | 37.5 | 162.5           | 128.1     | 0.79 | 9.1      | 193.6        | 96.3  | 16.9      |
| 86  | 43.8 | 163.0           | 128.3     | 0.79 | 9.0      | 193.7        | 94.8  | 22.2      |
| 95  | 18.8 | 152.2           | 123.8     | 0.81 | 11.1     | 190.1        | 115.2 | 3.8       |
| 95  | 25.0 | 154.4           | 124.7     | 0.81 | 10.7     | 190.8        | 110.2 | 6.4       |
| 95  | 31.3 | 155.7           | 125.3     | 0.80 | 10.4     | 191.2        | 107.2 | 9.5       |
| 95  | 37.5 | 156.4           | 125.6     | 0.80 | 10.3     | 191.5        | 105.2 | 13.0      |
| 95  | 43.8 | 156.9           | 125.8     | 0.80 | 10.2     | 191.6        | 103.7 | 17.1      |
| 105 | 18.8 | 145.3           | 121.0     | 0.83 | 12.5     | 187.9        | 124.9 | 3.7       |
| 105 | 25.0 | 147.4           | 121.9     | 0.83 | 12.1     | 188.6        | 120.0 | 6.2       |
| 105 | 31.3 | 148.6           | 122.3     | 0.82 | 11.8     | 189.0        | 117.0 | 9.2       |
| 105 | 37.5 | 149.4           | 122.6     | 0.82 | 11.7     | 189.2        | 115.0 | 12.7      |
| 105 | 43.8 | 149.9           | 122.8     | 0.82 | 11.6     | 189.3        | 113.6 | 16.7      |
| 115 | 18.8 | 138.0           | 118.1     | 0.86 | 14.0     | 185.8        | 134.6 | 3.6       |
| 115 | 25.0 | 140.0           | 118.9     | 0.85 | 13.6     | 186.4        | 129.8 | 6.0       |
| 115 | 31.3 | 141.2           | 119.3     | 0.85 | 13.3     | 186.7        | 126.8 | 9.0       |
| 115 | 37.5 | 141.9           | 119.6     | 0.84 | 13.2     | 186.9        | 124.9 | 12.3      |
| 115 | 43.8 | 142.3           | 119.8     | 0.84 | 13.1     | 187.0        | 123.5 | 16.2      |
| 120 | 18.8 | 134.2           | 116.5     | 0.87 | 14.8     | 184.7        | 139.5 | 3.6       |
| 120 | 25.0 | 136.2           | 117.3     | 0.86 | 14.4     | 185.2        | 134.7 | 6.0       |
| 120 | 31.3 | 137.3           | 117.8     | 0.86 | 14.1     | 185.5        | 131.8 | 8.9       |
| 120 | 37.5 | 137.9           | 118.0     | 0.86 | 14.0     | 185.7        | 129.8 | 12.2      |



## Performance Data

**Table 87. Cooling capacities 12.5 tons (gross) - GEH150 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------|------|----------|--------------|-------|-----------|
| 120 | 43.8 | 138.4           | 118.2     | 0.85 | 13.9     | 185.8        | 128.4 | 16.0      |

**Note:** Performance data is tabulated for cooling at 80.6°F DB/66.2°F WB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the cooling correction factors for variations in entering air temperature. WLHP data is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. The minimum gpm/ton is 3.0 when the EWT is greater than 115°F and the EAT is less than 67°F WB. Rated GPM: 37.5 Minimum CFM 4000; Nominal CFM 5000, Maximum CFM 6000.

**Table 88. Heating capacities 12.5 tons (gross) - GEH150**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Comp Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|---------------|------|-----------|
| 25  | 18.8 | 100.4           | 73.0         | 8.0           | 16.3 | 8.1       |
| 25  | 25.0 | 103.7           | 76.0         | 8.1           | 18.2 | 13.3      |
| 25  | 31.3 | 105.9           | 77.9         | 8.2           | 19.4 | 19.7      |
| 25  | 37.5 | 107.4           | 79.3         | 8.2           | 20.3 | 27.0      |
| 25  | 43.8 | 108.5           | 80.3         | 8.3           | 20.9 | 35.4      |
| 32  | 18.8 | 110.7           | 82.4         | 8.3           | 22.2 | 7.9       |
| 32  | 25.0 | 114.6           | 85.9         | 8.4           | 24.3 | 12.9      |
| 32  | 31.3 | 117.1           | 88.2         | 8.5           | 25.7 | 19.1      |
| 32  | 37.5 | 118.9           | 89.8         | 8.5           | 26.7 | 26.2      |
| 32  | 43.8 | 120.2           | 91.0         | 8.6           | 27.4 | 34.3      |
| 45  | 18.8 | 131.4           | 101.8        | 8.7           | 33.8 | 6.0       |
| 45  | 25.0 | 136.1           | 106.1        | 8.8           | 36.2 | 9.9       |
| 45  | 31.3 | 139.3           | 109.0        | 8.9           | 37.8 | 14.6      |
| 45  | 37.5 | 141.5           | 111.0        | 8.9           | 38.9 | 20.0      |
| 45  | 43.8 | 143.2           | 112.6        | 9.0           | 39.7 | 26.2      |
| 55  | 18.8 | 139.7           | 109.4        | 8.9           | 38.0 | 5.9       |
| 55  | 25.0 | 144.9           | 114.2        | 9.0           | 40.6 | 9.7       |
| 55  | 31.3 | 148.4           | 117.4        | 9.1           | 42.3 | 14.3      |
| 55  | 37.5 | 150.9           | 119.6        | 9.2           | 43.4 | 19.6      |
| 55  | 43.8 | 152.7           | 121.3        | 9.2           | 44.3 | 25.7      |
| 59  | 18.8 | 148.2           | 117.2        | 9.1           | 42.1 | 5.8       |
| 59  | 25.0 | 154.0           | 122.5        | 9.2           | 44.9 | 9.5       |
| 59  | 31.3 | 157.9           | 126.0        | 9.3           | 46.7 | 14.0      |
| 59  | 37.5 | 160.5           | 128.5        | 9.4           | 47.9 | 19.2      |
| 59  | 43.8 | 162.6           | 130.4        | 9.5           | 48.9 | 25.2      |
| 68  | 18.8 | 169.2           | 136.7        | 9.5           | 53.1 | 5.4       |
| 68  | 25.0 | 176.0           | 142.9        | 9.7           | 56.2 | 8.9       |
| 68  | 31.3 | 180.6           | 147.1        | 9.8           | 58.3 | 13.1      |
| 68  | 37.5 | 183.7           | 150.0        | 9.9           | 59.8 | 18.0      |
| 68  | 43.8 | 186.1           | 152.2        | 9.9           | 60.8 | 23.5      |
| 77  | 18.8 | 182.1           | 148.5        | 9.8           | 58.7 | 5.3       |
| 77  | 25.0 | 189.9           | 155.6        | 10.0          | 62.1 | 8.7       |
| 77  | 31.3 | 195.0           | 160.4        | 10.2          | 64.4 | 12.8      |
| 77  | 37.5 | 198.6           | 163.7        | 10.3          | 66.0 | 17.6      |
| 77  | 43.8 | 201.4           | 166.2        | 10.3          | 67.1 | 23.0      |

**Table 88. Heating capacities 12.5 tons (gross) - GEH150 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Comp Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|---------------|------|-----------|
| 86  | 18.8 | 203.2           | 167.8        | 10.4          | 67.5 | 5.1       |
| 86  | 25.0 | 212.5           | 176.4        | 10.6          | 71.3 | 8.4       |
| 86  | 31.3 | 218.8           | 182.2        | 10.7          | 73.9 | 12.4      |
| 86  | 37.5 | 223.2           | 186.2        | 10.9          | 75.7 | 16.9      |
| 86  | 43.8 | 226.6           | 189.3        | 10.9          | 77.0 | 22.2      |

**Note:** Performance data is tabulated for heating at 68°F DB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the heating correction factors for variations in entering air temperature. WLHP data shown is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. Rated GPM: 37.5 Minimum CFM 4000; Nominal CFM 5000, Maximum CFM 6000.

**Table 89. Fan correction factors 12.5 tons - GEH150**

| Entering CFM | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 3500         | 0.958            | 0.885             | 1.001               | 0.983            | 1.107               |
| 3938         | 0.981            | 0.943             | 1.000               | 0.993            | 1.047               |
| 4375         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 4813         | 1.016            | 1.056             | 1.000               | 1.006            | 0.962               |
| 5250         | 1.031            | 1.112             | 0.999               | 1.011            | 0.931               |

**Table 90. Correction factors for variation in entering air temperature 12.5 tons, GEH150**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 44.5                            | 0.917               | 1.047                  | 1.014                                      | 1.034 | 1.098 | 1.163 | 1.232 | 43                              | 0.725               | 0.725                  |
| 49.4                            | 0.917               | 1.037                  | 0.972                                      | 1.034 | 1.098 | 1.163 | 1.232 | 48                              | 0.777               | 0.777                  |
| 56.3                            | 0.918               | 1.028                  | 0.810                                      | 0.997 | 1.099 | 1.165 | 1.232 | 53                              | 0.830               | 0.831                  |
| 60.3                            | 0.919               | 1.019                  | 0.661                                      | 0.848 | 1.035 | 1.166 | 1.233 | 58                              | 0.885               | 0.886                  |
| 63.2                            | 0.950               | 1.009                  | 0.551                                      | 0.739 | 0.926 | 1.114 | 1.234 | 63                              | 0.942               | 0.942                  |
| 66.2                            | 1.000               | 1.000                  | —                                          | 0.625 | 0.813 | 1.000 | 1.188 | 68                              | 1.000               | 1.000                  |
| 72.1                            | 1.114               | 0.991                  | —                                          | —     | 0.585 | 0.774 | 0.962 | 73                              | 1.060               | 1.059                  |
| 77.1                            | 1.217               | 0.981                  | —                                          | —     | —     | 0.576 | 0.766 | 78                              | 1.123               | 1.120                  |

**Note:** \* = Sensible equals total capacity

**Table 91. Cooling capacities 12.5 tons (gross) - GEV150**

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|------|-----------|
| 45  | 18.8 | 181.2           | 135.9           | 0.75 | 5.4           | 199.8        | 66.3 | 6.1       |
| 45  | 25.0 | 183.5           | 136.9           | 0.75 | 5.0           | 200.6        | 61.1 | 9.9       |
| 45  | 31.3 | 184.8           | 137.4           | 0.74 | 4.8           | 201.0        | 57.9 | 14.6      |
| 45  | 37.5 | 185.6           | 137.8           | 0.74 | 4.6           | 201.3        | 55.8 | 20.0      |
| 45  | 43.8 | 186.2           | 138.0           | 0.74 | 4.5           | 201.5        | 54.3 | 26.2      |
| 55  | 18.8 | 175.8           | 133.6           | 0.76 | 6.5           | 197.9        | 76.0 | 5.9       |
| 55  | 25.0 | 178.0           | 134.5           | 0.76 | 6.0           | 198.6        | 70.9 | 9.7       |
| 55  | 31.3 | 179.3           | 135.1           | 0.75 | 5.8           | 199.0        | 67.7 | 14.3      |
| 55  | 37.5 | 180.1           | 135.4           | 0.75 | 5.6           | 199.3        | 65.6 | 19.6      |
| 55  | 43.8 | 180.6           | 135.6           | 0.75 | 5.5           | 199.5        | 64.1 | 25.7      |
| 59  | 18.8 | 173.6           | 132.7           | 0.76 | 6.9           | 197.1        | 79.8 | 5.8       |



## Performance Data

Table 91. Cooling capacities 12.5 tons (gross) - GEV150 (continued)

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|-------|-----------|
| 59  | 25.0 | 175.8           | 133.6           | 0.76 | 6.5           | 197.8        | 74.8  | 9.5       |
| 59  | 31.3 | 177.1           | 134.1           | 0.76 | 6.2           | 198.3        | 71.6  | 14.1      |
| 59  | 37.5 | 177.8           | 134.5           | 0.76 | 6.1           | 198.5        | 69.6  | 19.3      |
| 59  | 43.8 | 178.4           | 134.7           | 0.76 | 6.0           | 198.7        | 68.1  | 25.2      |
| 68  | 18.8 | 168.6           | 130.6           | 0.77 | 7.9           | 195.4        | 88.6  | 5.5       |
| 68  | 25.0 | 170.8           | 131.5           | 0.77 | 7.4           | 196.1        | 83.6  | 8.9       |
| 68  | 31.3 | 172.0           | 132.0           | 0.77 | 7.2           | 196.5        | 80.5  | 13.2      |
| 68  | 37.5 | 172.8           | 132.3           | 0.77 | 7.0           | 196.8        | 78.4  | 18.0      |
| 68  | 43.8 | 173.3           | 132.6           | 0.76 | 6.9           | 197.0        | 76.9  | 23.6      |
| 77  | 18.8 | 163.8           | 128.6           | 0.79 | 8.9           | 194.0        | 97.4  | 5.3       |
| 77  | 25.0 | 165.6           | 129.3           | 0.78 | 8.5           | 194.4        | 92.4  | 8.7       |
| 77  | 31.3 | 166.6           | 129.7           | 0.78 | 8.2           | 194.6        | 89.4  | 12.9      |
| 77  | 37.5 | 167.2           | 130.0           | 0.78 | 8.1           | 194.7        | 87.3  | 17.6      |
| 77  | 43.8 | 167.6           | 130.1           | 0.78 | 8.0           | 194.8        | 85.9  | 23.0      |
| 86  | 18.8 | 157.7           | 126.0           | 0.80 | 9.9           | 191.6        | 106.3 | 5.1       |
| 86  | 25.0 | 159.9           | 126.9           | 0.79 | 9.5           | 192.3        | 101.3 | 8.4       |
| 86  | 31.3 | 161.1           | 127.5           | 0.79 | 9.3           | 192.7        | 98.3  | 12.4      |
| 86  | 37.5 | 161.8           | 127.8           | 0.79 | 9.1           | 193.0        | 96.3  | 17.0      |
| 86  | 43.8 | 162.3           | 128.0           | 0.79 | 9.0           | 193.1        | 94.8  | 22.2      |
| 95  | 18.8 | 151.7           | 123.6           | 0.81 | 11.1          | 189.6        | 115.0 | 3.8       |
| 95  | 25.0 | 153.8           | 124.5           | 0.81 | 10.7          | 190.3        | 110.1 | 6.4       |
| 95  | 31.3 | 155.0           | 125.0           | 0.81 | 10.4          | 190.7        | 107.1 | 9.5       |
| 95  | 37.5 | 155.8           | 125.3           | 0.80 | 10.3          | 190.9        | 105.1 | 13.0      |
| 95  | 43.8 | 156.3           | 125.5           | 0.80 | 10.2          | 191.0        | 103.7 | 17.1      |
| 105 | 18.8 | 144.7           | 120.8           | 0.83 | 12.5          | 187.4        | 124.7 | 3.7       |
| 105 | 25.0 | 146.8           | 121.7           | 0.83 | 12.1          | 188.0        | 119.9 | 6.2       |
| 105 | 31.3 | 148.0           | 122.1           | 0.83 | 11.8          | 188.4        | 116.9 | 9.2       |
| 105 | 37.5 | 148.7           | 122.4           | 0.82 | 11.7          | 188.6        | 115.0 | 12.7      |
| 105 | 43.8 | 149.2           | 122.6           | 0.82 | 11.6          | 188.7        | 113.5 | 16.7      |
| 115 | 18.8 | 137.5           | 117.8           | 0.86 | 14.0          | 185.3        | 134.4 | 3.6       |
| 115 | 25.0 | 139.5           | 118.7           | 0.85 | 13.6          | 185.8        | 129.6 | 6.0       |
| 115 | 31.3 | 140.5           | 119.1           | 0.85 | 13.4          | 186.1        | 126.7 | 9.0       |
| 115 | 37.5 | 141.2           | 119.4           | 0.85 | 13.2          | 186.3        | 124.8 | 12.4      |
| 115 | 43.8 | 141.6           | 119.6           | 0.84 | 13.1          | 186.4        | 123.4 | 16.2      |
| 120 | 18.8 | 133.7           | 116.4           | 0.87 | 14.8          | 184.2        | 139.2 | 3.6       |
| 120 | 25.0 | 135.6           | 117.2           | 0.86 | 14.4          | 184.7        | 134.5 | 6.0       |
| 120 | 31.3 | 136.7           | 117.6           | 0.86 | 14.2          | 185.0        | 131.6 | 8.9       |
| 120 | 37.5 | 137.3           | 117.8           | 0.86 | 14.0          | 185.2        | 129.7 | 12.2      |

**Table 91. Cooling capacities 12.5 tons (gross) - GEV150 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|-------|-----------|
| 120 | 43.8 | 137.7           | 118.0           | 0.86 | 14.0          | 185.3        | 128.3 | 16.0      |

**Note:** Performance data is tabulated for cooling at 80.6°F DB/66.2°F WB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the cooling correction factors for variations in entering air temperature. WLHP data is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. The minimum gpm/ton is 3.0 when the EWT is greater than 115°F and the EAT is less than 67°F WB. Rated GPM: 37.5 Minimum CFM 4000; Nominal CFM 5000, Maximum CFM 6000.

**Table 92. Heating capacities 12.5 tons (gross) - GEV150**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Comp Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|---------------|------|-----------|
| 25  | 18.8 | 100.9           | 73.4         | 8.1           | 16.3 | 8.2       |
| 25  | 25.0 | 104.2           | 76.4         | 8.2           | 18.2 | 13.4      |
| 25  | 31.3 | 106.4           | 78.4         | 8.2           | 19.4 | 19.8      |
| 25  | 37.5 | 107.9           | 79.8         | 8.3           | 20.3 | 27.1      |
| 25  | 43.8 | 109.1           | 80.8         | 8.3           | 20.9 | 35.5      |
| 32  | 18.8 | 111.3           | 82.8         | 8.3           | 22.2 | 7.9       |
| 32  | 25.0 | 115.2           | 86.3         | 8.5           | 24.4 | 13.0      |
| 32  | 31.3 | 117.7           | 88.7         | 8.5           | 25.7 | 19.2      |
| 32  | 37.5 | 119.5           | 90.3         | 8.6           | 26.7 | 26.3      |
| 32  | 43.8 | 120.9           | 91.5         | 8.6           | 27.4 | 34.4      |
| 45  | 18.8 | 133.7           | 103.4        | 8.9           | 33.7 | 6.1       |
| 45  | 25.0 | 138.5           | 107.7        | 9.0           | 36.2 | 9.9       |
| 45  | 31.3 | 141.7           | 110.7        | 9.1           | 37.8 | 14.6      |
| 45  | 37.5 | 143.9           | 112.7        | 9.2           | 38.9 | 20.0      |
| 45  | 43.8 | 145.7           | 114.2        | 9.2           | 39.7 | 26.2      |
| 55  | 18.8 | 142.1           | 111.0        | 9.1           | 37.9 | 5.9       |
| 55  | 25.0 | 147.4           | 115.9        | 9.3           | 40.5 | 9.7       |
| 55  | 31.3 | 151.0           | 119.1        | 9.4           | 42.2 | 14.3      |
| 55  | 37.5 | 153.5           | 121.3        | 9.4           | 43.4 | 19.6      |
| 55  | 43.8 | 155.4           | 123.0        | 9.5           | 44.2 | 25.7      |
| 59  | 18.8 | 150.8           | 118.9        | 9.4           | 42.1 | 5.8       |
| 59  | 25.0 | 156.6           | 124.2        | 9.5           | 44.8 | 9.5       |
| 59  | 31.3 | 160.6           | 127.8        | 9.6           | 46.6 | 14.1      |
| 59  | 37.5 | 163.3           | 130.3        | 9.7           | 47.9 | 19.3      |
| 59  | 43.8 | 165.4           | 132.1        | 9.7           | 48.8 | 25.2      |
| 68  | 18.8 | 171.1           | 137.5        | 9.9           | 53.1 | 5.5       |
| 68  | 25.0 | 178.0           | 143.7        | 10.0          | 56.2 | 8.9       |
| 68  | 31.3 | 182.5           | 147.8        | 10.2          | 58.3 | 13.2      |
| 68  | 37.5 | 185.6           | 150.7        | 10.3          | 59.8 | 18.0      |
| 68  | 43.8 | 188.0           | 152.8        | 10.3          | 60.8 | 23.6      |
| 77  | 18.8 | 184.1           | 149.3        | 10.2          | 58.7 | 5.3       |
| 77  | 25.0 | 191.8           | 156.2        | 10.4          | 62.2 | 8.7       |
| 77  | 31.3 | 196.9           | 160.9        | 10.6          | 64.4 | 12.9      |
| 77  | 37.5 | 200.5           | 164.1        | 10.7          | 66.0 | 17.6      |
| 77  | 43.8 | 203.2           | 166.5        | 10.7          | 67.2 | 23.0      |



## Performance Data

**Table 92. Heating capacities 12.5 tons (gross) - GEV150 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Comp Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|---------------|------|-----------|
| 86  | 18.8 | 205.0           | 168.2        | 10.8          | 67.5 | 5.1       |
| 86  | 25.0 | 214.3           | 176.6        | 11.1          | 71.4 | 8.4       |
| 86  | 31.3 | 220.5           | 182.2        | 11.2          | 73.9 | 12.4      |
| 86  | 37.5 | 224.9           | 186.1        | 11.4          | 75.7 | 17.0      |
| 86  | 43.8 | 228.1           | 189.1        | 11.4          | 77.0 | 22.2      |

**Note:** Performance data is tabulated for heating at 68°F DB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the heating correction factors for variations in entering air temperature. WLHP data is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tab. Rated GPM: 37.5 Minimum CFM 4000; Nominal CFM 5000, Maximum CFM 6000.

**Table 93. Fan correction factors 12.5 tons - GEV150**

| Entering CFM | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 3500         | 0.958            | 0.884             | 1.001               | 0.984            | 1.102               |
| 3938         | 0.981            | 0.943             | 1.000               | 0.993            | 1.045               |
| 4375         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 4813         | 1.016            | 1.057             | 1.000               | 1.006            | 0.963               |
| 5250         | 1.031            | 1.114             | 0.999               | 1.011            | 0.933               |

**Table 94. Correction factors for variation in entering air temperature 12.5 tons, GEV150**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 44.5                            | 0.919               | 1.045                  | 0.799                                      | 0.000 | 1.097 | 1.163 | 1.233 | 43                              | 0.733               | 0.733                  |
| 49.4                            | 0.919               | 1.036                  | 0.766                                      | 1.033 | 1.097 | 1.163 | 1.233 | 48                              | 0.784               | 0.784                  |
| 56.3                            | 0.920               | 1.027                  | 0.639                                      | 0.997 | 1.099 | 1.165 | 1.233 | 53                              | 0.836               | 0.836                  |
| 60.3                            | 0.921               | 1.018                  | 0.521                                      | 0.847 | 1.036 | 1.167 | 1.235 | 58                              | 0.889               | 0.889                  |
| 63.2                            | 0.951               | 1.009                  | 0.434                                      | 0.738 | 0.926 | 1.114 | 1.236 | 63                              | 0.944               | 0.944                  |
| 66.2                            | 1.000               | 1.000                  | —                                          | 0.623 | 0.812 | 1.000 | 1.189 | 68                              | 1.000               | 1.000                  |
| 72.1                            | 1.112               | 0.991                  | —                                          | —     | 0.583 | 0.772 | 0.961 | 73                              | 1.058               | 1.058                  |
| 77.1                            | 1.216               | 0.982                  | —                                          | —     | —     | 0.575 | 0.766 | 78                              | 1.118               | 1.117                  |

**Note:** \* = Sensible equals total capacity

## Cooling and Heating Capacities 15 tons

**Table 95. Cooling capacities 15 tons (gross) - GEH180**

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|------|-----------|
| 45  | 22.5 | 219.2           | 163.8           | 0.75 | 7.5           | 244.8        | 66.6 | 8.3       |
| 45  | 30.0 | 221.8           | 164.9           | 0.74 | 7.0           | 245.8        | 61.3 | 13.6      |
| 45  | 37.5 | 223.3           | 165.5           | 0.74 | 6.8           | 246.4        | 58.0 | 20.0      |
| 45  | 45.0 | 224.1           | 165.9           | 0.74 | 6.6           | 246.7        | 55.9 | 27.5      |
| 45  | 52.5 | 224.7           | 166.2           | 0.74 | 6.5           | 247.0        | 54.3 | 35.9      |
| 55  | 22.5 | 212.8           | 161.1           | 0.76 | 8.6           | 242.1        | 76.3 | 8.1       |
| 55  | 30.0 | 215.3           | 162.1           | 0.75 | 8.1           | 243.1        | 71.1 | 13.3      |
| 55  | 37.5 | 216.7           | 162.8           | 0.75 | 7.9           | 243.6        | 67.9 | 19.6      |
| 55  | 45.0 | 217.6           | 163.1           | 0.75 | 7.7           | 244.0        | 65.8 | 26.9      |

**Table 95. Cooling capacities 15 tons (gross) - GEH180 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|-------|-----------|
| 55  | 52.5 | 218.2           | 163.4           | 0.75 | 7.6           | 244.2        | 64.2  | 35.2      |
| 59  | 22.5 | 210.1           | 159.9           | 0.76 | 9.1           | 241.0        | 80.2  | 7.9       |
| 59  | 30.0 | 212.6           | 161.0           | 0.76 | 8.6           | 242.0        | 75.0  | 13.1      |
| 59  | 37.5 | 214.1           | 161.6           | 0.75 | 8.4           | 242.6        | 71.8  | 19.3      |
| 59  | 45.0 | 215.0           | 162.0           | 0.75 | 8.2           | 242.9        | 69.7  | 26.4      |
| 59  | 52.5 | 215.6           | 162.3           | 0.75 | 8.1           | 243.1        | 68.2  | 34.5      |
| 68  | 22.5 | 203.9           | 157.3           | 0.77 | 10.2          | 238.6        | 89.0  | 7.4       |
| 68  | 30.0 | 206.5           | 158.4           | 0.77 | 9.7           | 239.6        | 83.8  | 12.2      |
| 68  | 37.5 | 207.9           | 159.0           | 0.76 | 9.4           | 240.1        | 80.7  | 18.0      |
| 68  | 45.0 | 208.8           | 159.4           | 0.76 | 9.3           | 240.4        | 78.6  | 24.7      |
| 68  | 52.5 | 209.4           | 159.6           | 0.76 | 9.2           | 240.7        | 77.1  | 32.3      |
| 77  | 22.5 | 198.0           | 154.9           | 0.78 | 11.3          | 236.6        | 98.0  | 7.3       |
| 77  | 30.0 | 200.6           | 156.0           | 0.78 | 10.8          | 237.6        | 92.8  | 12.0      |
| 77  | 37.5 | 202.1           | 156.6           | 0.78 | 10.6          | 238.1        | 89.7  | 17.6      |
| 77  | 45.0 | 203.0           | 157.0           | 0.77 | 10.4          | 238.4        | 87.6  | 24.1      |
| 77  | 52.5 | 203.6           | 157.2           | 0.77 | 10.3          | 238.6        | 86.1  | 31.6      |
| 86  | 22.5 | 189.3           | 151.4           | 0.80 | 12.6          | 232.2        | 106.7 | 7.0       |
| 86  | 30.0 | 192.0           | 152.5           | 0.79 | 12.1          | 233.1        | 101.6 | 11.5      |
| 86  | 37.5 | 193.5           | 153.1           | 0.79 | 11.8          | 233.6        | 98.5  | 17.0      |
| 86  | 45.0 | 194.3           | 153.5           | 0.79 | 11.6          | 233.9        | 96.4  | 23.3      |
| 86  | 52.5 | 194.9           | 153.7           | 0.79 | 11.5          | 234.1        | 94.9  | 30.5      |
| 95  | 22.5 | 182.2           | 148.5           | 0.82 | 14.0          | 229.8        | 115.4 | 5.2       |
| 95  | 30.0 | 184.8           | 149.6           | 0.81 | 13.4          | 230.6        | 110.4 | 8.7       |
| 95  | 37.5 | 186.2           | 150.1           | 0.81 | 13.1          | 231.1        | 107.3 | 12.9      |
| 95  | 45.0 | 187.1           | 150.5           | 0.80 | 13.0          | 231.3        | 105.3 | 17.7      |
| 95  | 52.5 | 187.7           | 150.7           | 0.80 | 12.9          | 231.5        | 103.8 | 23.3      |
| 105 | 22.5 | 173.9           | 145.2           | 0.83 | 15.6          | 227.2        | 125.2 | 5.1       |
| 105 | 30.0 | 176.4           | 146.2           | 0.83 | 15.1          | 227.9        | 120.2 | 8.4       |
| 105 | 37.5 | 177.8           | 146.7           | 0.83 | 14.8          | 228.3        | 117.2 | 12.5      |
| 105 | 45.0 | 178.6           | 147.1           | 0.82 | 14.6          | 228.6        | 115.2 | 17.2      |
| 105 | 52.5 | 179.2           | 147.3           | 0.82 | 14.5          | 228.7        | 113.7 | 22.6      |
| 115 | 22.5 | 165.3           | 141.7           | 0.86 | 17.4          | 224.7        | 134.9 | 4.9       |
| 115 | 30.0 | 167.7           | 142.7           | 0.85 | 16.9          | 225.3        | 130.0 | 8.2       |
| 115 | 37.5 | 168.9           | 143.2           | 0.85 | 16.6          | 225.7        | 127.0 | 12.2      |
| 115 | 45.0 | 169.7           | 143.5           | 0.85 | 16.5          | 225.9        | 125.0 | 16.8      |
| 115 | 52.5 | 170.2           | 143.7           | 0.84 | 16.4          | 226.0        | 123.6 | 22.0      |
| 120 | 22.5 | 160.9           | 140.0           | 0.87 | 18.3          | 223.4        | 139.8 | 4.8       |
| 120 | 30.0 | 163.1           | 140.9           | 0.86 | 17.9          | 224.0        | 134.9 | 8.1       |
| 120 | 37.5 | 164.4           | 141.4           | 0.86 | 17.6          | 224.4        | 131.9 | 12.0      |
| 120 | 45.0 | 165.1           | 141.7           | 0.86 | 17.4          | 224.5        | 130.0 | 16.6      |



## Performance Data

**Table 95. Cooling capacities 15 tons (gross) - GEH180 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|-------|-----------|
| 120 | 52.5 | 165.6           | 141.9           | 0.86 | 17.3          | 224.7        | 128.5 | 21.8      |

**Note:** Performance data is tabulated for cooling at 80.6°F DB/66.2°F WB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the cooling correction factors for variations in entering air temperature. WLHP data is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. The minimum gpm/ton is 3.0 when the EWT is greater than 115°F and the EAT is less than 67°F WB. Rated GPM: 45.0 Minimum CFM 4800; Nominal CFM 6000, Maximum CFM 7200.

**Table 96. Heating capacities 15 tons (gross) - GEH180**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Comp Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|---------------|------|-----------|
| 25  | 22.5 | 121.9           | 88.4         | 9.8           | 16.3 | 11.1      |
| 25  | 30.0 | 125.9           | 92.0         | 10.0          | 18.2 | 18.3      |
| 25  | 37.5 | 128.6           | 94.4         | 10.0          | 19.4 | 27.0      |
| 25  | 45.0 | 130.5           | 96.1         | 10.1          | 20.3 | 37.1      |
| 25  | 52.5 | 131.9           | 97.4         | 10.1          | 20.9 | 48.6      |
| 32  | 22.5 | 134.1           | 99.4         | 10.2          | 22.3 | 10.8      |
| 32  | 30.0 | 138.8           | 103.7        | 10.3          | 24.4 | 17.8      |
| 32  | 37.5 | 141.9           | 106.5        | 10.4          | 25.7 | 26.2      |
| 32  | 45.0 | 144.1           | 108.5        | 10.4          | 26.7 | 36.0      |
| 32  | 52.5 | 145.8           | 110.1        | 10.5          | 27.4 | 47.1      |
| 45  | 22.5 | 158.3           | 121.7        | 10.7          | 33.9 | 8.3       |
| 45  | 30.0 | 164.0           | 127.0        | 10.9          | 36.4 | 13.6      |
| 45  | 37.5 | 167.8           | 130.4        | 11.0          | 37.9 | 20.0      |
| 45  | 45.0 | 170.5           | 132.8        | 11.0          | 39.0 | 27.5      |
| 45  | 52.5 | 172.5           | 134.7        | 11.1          | 39.8 | 35.9      |
| 55  | 22.5 | 168.1           | 130.7        | 11.0          | 38.1 | 8.1       |
| 55  | 30.0 | 174.4           | 136.5        | 11.1          | 40.7 | 13.3      |
| 55  | 37.5 | 178.6           | 140.3        | 11.2          | 42.4 | 19.6      |
| 55  | 45.0 | 181.6           | 143.0        | 11.3          | 43.5 | 26.9      |
| 55  | 52.5 | 183.8           | 145.0        | 11.4          | 44.4 | 35.2      |
| 59  | 22.5 | 178.2           | 139.9        | 11.2          | 42.3 | 7.9       |
| 59  | 30.0 | 185.2           | 146.2        | 11.4          | 45.0 | 13.1      |
| 59  | 37.5 | 189.8           | 150.4        | 11.5          | 46.8 | 19.3      |
| 59  | 45.0 | 193.1           | 153.4        | 11.6          | 48.0 | 26.4      |
| 59  | 52.5 | 195.5           | 155.6        | 11.7          | 48.9 | 34.5      |
| 68  | 22.5 | 200.4           | 160.4        | 11.7          | 53.5 | 7.4       |
| 68  | 30.0 | 208.5           | 167.8        | 11.9          | 56.6 | 12.2      |
| 68  | 37.5 | 213.8           | 172.6        | 12.1          | 58.6 | 18.0      |
| 68  | 45.0 | 217.6           | 176.1        | 12.2          | 60.0 | 24.7      |
| 68  | 52.5 | 220.5           | 178.7        | 12.3          | 61.0 | 32.3      |
| 77  | 22.5 | 215.5           | 174.2        | 12.1          | 59.2 | 7.3       |
| 77  | 30.0 | 224.6           | 182.4        | 12.4          | 62.5 | 12.0      |
| 77  | 37.5 | 230.6           | 187.9        | 12.5          | 64.7 | 17.6      |
| 77  | 45.0 | 234.9           | 191.8        | 12.7          | 66.3 | 24.1      |
| 77  | 52.5 | 238.2           | 194.7        | 12.7          | 67.4 | 31.6      |



**Table 96. Heating capacities 15 tons (gross) - GEH180 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Comp Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|---------------|------|-----------|
| 86  | 22.5 | 240.1           | 196.5        | 12.8          | 68.0 | 7.0       |
| 86  | 30.0 | 251.1           | 206.5        | 13.1          | 71.8 | 11.5      |
| 86  | 37.5 | 258.3           | 213.0        | 13.3          | 74.3 | 17.0      |
| 86  | 45.0 | 263.5           | 217.6        | 13.4          | 76.0 | 23.3      |
| 86  | 52.5 | 267.3           | 221.1        | 13.5          | 77.3 | 30.5      |

**Note:** Performance data is tabulated for heating at 68°F DB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the heating correction factors for variations in entering air temperature. WLHP data is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. Rated GPM: 45.0 Minimum CFM 4800; Nominal CFM 6000, Maximum CFM 7200.

**Table 97. Fan correction factors 15 tons - GEH180**

| Entering CFM | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 4200         | 0.959            | 0.885             | 0.998               | 0.984            | 1.093               |
| 4725         | 0.981            | 0.943             | 0.999               | 0.993            | 1.041               |
| 5250         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 5775         | 1.016            | 1.057             | 1.001               | 1.006            | 0.967               |
| 6300         | 1.030            | 1.113             | 1.001               | 1.011            | 0.940               |

**Table 98. Correction factors for variation in entering air temperature 15 tons, GEH180**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 44.5                            | 0.924               | 1.048                  | 1.021                                      | 1.041 | 1.105 | 1.170 | 1.239 | 43                              | 0.751               | 0.752                  |
| 49.4                            | 0.924               | 1.038                  | 0.979                                      | 1.041 | 1.105 | 1.170 | 1.239 | 48                              | 0.798               | 0.799                  |
| 56.3                            | 0.926               | 1.029                  | 0.811                                      | 1.001 | 1.107 | 1.172 | 1.239 | 53                              | 0.846               | 0.846                  |
| 60.3                            | 0.927               | 1.019                  | 0.661                                      | 0.849 | 1.038 | 1.173 | 1.241 | 58                              | 0.895               | 0.896                  |
| 63.2                            | 0.954               | 1.009                  | 0.550                                      | 0.739 | 0.926 | 1.117 | 1.242 | 63                              | 0.947               | 0.947                  |
| 66.2                            | 1.000               | 1.000                  | —                                          | 0.623 | 0.811 | 1.000 | 1.191 | 68                              | 1.000               | 1.000                  |
| 72.1                            | 1.108               | 0.991                  | —                                          | —     | 0.581 | 0.771 | 0.960 | 73                              | 1.055               | 1.055                  |
| 77.1                            | 1.208               | 0.981                  | —                                          | —     | —     | 0.572 | 0.763 | 78                              | 1.112               | 1.112                  |

**Note:** \* = Sensible equals total capacity

**Table 99. Cooling capacities 15 tons (gross) - GEV180**

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|------|-----------|
| 45  | 22.5 | 219.2           | 163.8           | 0.75 | 7.4           | 244.5        | 66.7 | 8.3       |
| 45  | 30.0 | 221.8           | 164.9           | 0.74 | 7.0           | 245.6        | 61.4 | 13.6      |
| 45  | 37.5 | 223.3           | 165.6           | 0.74 | 6.7           | 246.2        | 58.1 | 20.1      |
| 45  | 45.0 | 224.2           | 166.0           | 0.74 | 6.5           | 246.5        | 56.0 | 27.6      |
| 45  | 52.5 | 224.8           | 166.2           | 0.74 | 6.4           | 246.7        | 54.4 | 36.0      |
| 55  | 22.5 | 212.8           | 161.1           | 0.76 | 8.5           | 241.9        | 76.4 | 8.1       |
| 55  | 30.0 | 215.4           | 162.2           | 0.75 | 8.1           | 242.9        | 71.1 | 13.4      |
| 55  | 37.5 | 216.9           | 162.8           | 0.75 | 7.8           | 243.5        | 67.9 | 19.7      |
| 55  | 45.0 | 217.8           | 163.2           | 0.75 | 7.6           | 243.8        | 65.8 | 27.0      |
| 55  | 52.5 | 218.4           | 163.5           | 0.75 | 7.5           | 244.1        | 64.3 | 35.3      |
| 59  | 22.5 | 210.2           | 160.0           | 0.76 | 9.0           | 240.9        | 80.2 | 8.0       |



## Performance Data

**Table 99. Cooling capacities 15 tons (gross) - GEV180 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|-------|-----------|
| 59  | 30.0 | 212.8           | 161.1           | 0.76 | 8.5           | 241.9        | 75.0  | 13.1      |
| 59  | 37.5 | 214.2           | 161.7           | 0.75 | 8.3           | 242.4        | 71.9  | 19.3      |
| 59  | 45.0 | 215.2           | 162.1           | 0.75 | 8.1           | 242.8        | 69.7  | 26.5      |
| 59  | 52.5 | 215.8           | 162.4           | 0.75 | 8.0           | 243.0        | 68.2  | 34.6      |
| 68  | 22.5 | 204.1           | 157.5           | 0.77 | 10.1          | 238.7        | 88.9  | 7.5       |
| 68  | 30.0 | 206.7           | 158.5           | 0.77 | 9.6           | 239.6        | 83.8  | 12.3      |
| 68  | 37.5 | 208.2           | 159.2           | 0.76 | 9.4           | 240.1        | 80.7  | 18.1      |
| 68  | 45.0 | 209.1           | 159.6           | 0.76 | 9.2           | 240.5        | 78.6  | 24.8      |
| 68  | 52.5 | 209.7           | 159.8           | 0.76 | 9.1           | 240.7        | 77.1  | 32.4      |
| 77  | 22.5 | 198.1           | 154.9           | 0.78 | 11.3          | 236.7        | 97.8  | 7.3       |
| 77  | 30.0 | 200.3           | 155.8           | 0.78 | 10.8          | 237.2        | 92.7  | 12.0      |
| 77  | 37.5 | 201.6           | 156.4           | 0.78 | 10.5          | 237.5        | 89.6  | 17.6      |
| 77  | 45.0 | 202.3           | 156.7           | 0.77 | 10.4          | 237.7        | 87.5  | 24.2      |
| 77  | 52.5 | 202.8           | 156.9           | 0.77 | 10.3          | 237.8        | 86.0  | 31.6      |
| 86  | 22.5 | 190.4           | 151.8           | 0.80 | 12.6          | 233.3        | 106.7 | 7.0       |
| 86  | 30.0 | 193.1           | 152.9           | 0.79 | 12.0          | 234.2        | 101.6 | 11.6      |
| 86  | 37.5 | 194.6           | 153.5           | 0.79 | 11.8          | 234.7        | 98.5  | 17.0      |
| 86  | 45.0 | 195.5           | 153.9           | 0.79 | 11.6          | 235.0        | 96.5  | 23.4      |
| 86  | 52.5 | 196.1           | 154.1           | 0.79 | 11.5          | 235.2        | 95.0  | 30.5      |
| 95  | 22.5 | 183.2           | 148.9           | 0.81 | 13.9          | 230.8        | 115.5 | 5.2       |
| 95  | 30.0 | 185.8           | 149.9           | 0.81 | 13.4          | 231.6        | 110.4 | 8.7       |
| 95  | 37.5 | 187.3           | 150.5           | 0.80 | 13.1          | 232.1        | 107.4 | 12.9      |
| 95  | 45.0 | 188.2           | 150.9           | 0.80 | 13.0          | 232.4        | 105.3 | 17.7      |
| 95  | 52.5 | 188.8           | 151.1           | 0.80 | 12.8          | 232.6        | 103.9 | 23.3      |
| 105 | 22.5 | 174.9           | 145.5           | 0.83 | 15.6          | 228.1        | 125.2 | 5.1       |
| 105 | 30.0 | 177.4           | 146.5           | 0.83 | 15.1          | 228.9        | 120.2 | 8.4       |
| 105 | 37.5 | 178.8           | 147.1           | 0.82 | 14.8          | 229.3        | 117.2 | 12.5      |
| 105 | 45.0 | 179.7           | 147.4           | 0.82 | 14.6          | 229.6        | 115.2 | 17.2      |
| 105 | 52.5 | 180.2           | 147.7           | 0.82 | 14.5          | 229.7        | 113.7 | 22.6      |
| 115 | 22.5 | 166.2           | 142.0           | 0.85 | 17.4          | 225.6        | 134.9 | 4.9       |
| 115 | 30.0 | 168.6           | 143.0           | 0.85 | 16.9          | 226.2        | 130.0 | 8.2       |
| 115 | 37.5 | 169.9           | 143.5           | 0.84 | 16.6          | 226.6        | 127.0 | 12.2      |
| 115 | 45.0 | 170.7           | 143.8           | 0.84 | 16.5          | 226.8        | 125.0 | 16.8      |
| 115 | 52.5 | 171.2           | 144.0           | 0.84 | 16.3          | 226.9        | 123.6 | 22.0      |
| 120 | 22.5 | 161.8           | 140.3           | 0.87 | 18.3          | 224.3        | 139.7 | 4.9       |
| 120 | 30.0 | 164.0           | 141.1           | 0.86 | 17.8          | 224.9        | 134.8 | 8.1       |
| 120 | 37.5 | 165.3           | 141.7           | 0.86 | 17.6          | 225.3        | 131.9 | 12.0      |
| 120 | 45.0 | 166.0           | 142.0           | 0.86 | 17.4          | 225.5        | 129.9 | 16.6      |

**Table 99. Cooling capacities 15 tons (gross) - GEV180 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|-------|-----------|
| 120 | 52.5 | 166.5           | 142.2           | 0.85 | 17.3          | 225.6        | 128.5 | 21.8      |

**Note:** Performance data is tabulated for cooling at 80.6°F DB/66.2°F WB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the cooling correction factors for variations in entering air temperature. WLHP data is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. The minimum gpm/ton is 3.0 when the EWT is greater than 115°F and the EAT is less than 67°F WB. Rated GPM: 45.0 Minimum CFM 4800; Nominal CFM 6000, Maximum CFM 7200.

**Table 100. Heating capacities 15 tons (gross) - GEV180**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Comp Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|---------------|------|-----------|
| 25  | 22.5 | 116.4           | 82.4         | 10.0          | 16.9 | 11.2      |
| 25  | 30.0 | 120.1           | 85.7         | 10.1          | 18.7 | 18.4      |
| 25  | 37.5 | 122.5           | 87.9         | 10.2          | 19.8 | 27.1      |
| 25  | 45.0 | 124.2           | 89.4         | 10.2          | 20.6 | 37.2      |
| 25  | 52.5 | 125.5           | 90.5         | 10.2          | 21.2 | 48.7      |
| 32  | 22.5 | 128.9           | 93.6         | 10.3          | 22.8 | 10.8      |
| 32  | 30.0 | 133.3           | 97.6         | 10.5          | 24.8 | 17.8      |
| 32  | 37.5 | 136.2           | 100.2        | 10.6          | 26.1 | 26.3      |
| 32  | 45.0 | 138.2           | 102.0        | 10.6          | 27.0 | 36.1      |
| 32  | 52.5 | 139.7           | 103.3        | 10.7          | 27.7 | 47.2      |
| 45  | 22.5 | 156.9           | 119.1        | 11.1          | 34.2 | 8.3       |
| 45  | 30.0 | 162.7           | 124.3        | 11.3          | 36.5 | 13.6      |
| 45  | 37.5 | 166.5           | 127.7        | 11.4          | 38.1 | 20.1      |
| 45  | 45.0 | 169.1           | 130.1        | 11.4          | 39.1 | 27.6      |
| 45  | 52.5 | 171.2           | 131.9        | 11.5          | 39.9 | 36.0      |
| 55  | 22.5 | 167.2           | 128.4        | 11.4          | 38.4 | 8.1       |
| 55  | 30.0 | 173.7           | 134.2        | 11.6          | 40.9 | 13.4      |
| 55  | 37.5 | 177.9           | 138.0        | 11.7          | 42.5 | 19.7      |
| 55  | 45.0 | 180.9           | 140.7        | 11.8          | 43.6 | 27.0      |
| 55  | 52.5 | 183.2           | 142.7        | 11.9          | 44.5 | 35.3      |
| 59  | 22.5 | 177.9           | 138.0        | 11.7          | 42.5 | 8.0       |
| 59  | 30.0 | 185.1           | 144.4        | 11.9          | 45.2 | 13.1      |
| 59  | 37.5 | 189.8           | 148.7        | 12.1          | 46.9 | 19.3      |
| 59  | 45.0 | 193.1           | 151.7        | 12.2          | 48.1 | 26.5      |
| 59  | 52.5 | 195.6           | 153.9        | 12.2          | 49.0 | 34.6      |
| 68  | 22.5 | 204.6           | 162.1        | 12.5          | 53.4 | 7.5       |
| 68  | 30.0 | 213.0           | 169.6        | 12.7          | 56.5 | 12.3      |
| 68  | 37.5 | 218.4           | 174.5        | 12.9          | 58.5 | 18.1      |
| 68  | 45.0 | 222.1           | 177.8        | 13.0          | 59.9 | 24.8      |
| 68  | 52.5 | 224.8           | 180.2        | 13.1          | 61.0 | 32.4      |
| 77  | 22.5 | 220.7           | 176.6        | 13.0          | 59.0 | 7.3       |
| 77  | 30.0 | 230.2           | 185.0        | 13.2          | 62.4 | 12.0      |
| 77  | 37.5 | 236.3           | 190.5        | 13.4          | 64.6 | 17.6      |
| 77  | 45.0 | 240.5           | 194.2        | 13.6          | 66.1 | 24.2      |
| 77  | 52.5 | 243.5           | 196.9        | 13.7          | 67.3 | 31.6      |



## Performance Data

**Table 100. Heating capacities 15 tons (gross) - GEV180 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Comp Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|---------------|------|-----------|
| 86  | 22.5 | 247.1           | 200.1        | 13.8          | 67.7 | 7.0       |
| 86  | 30.0 | 258.6           | 210.3        | 14.1          | 71.5 | 11.6      |
| 86  | 37.5 | 266.0           | 217.0        | 14.4          | 74.0 | 17.0      |
| 86  | 45.0 | 271.1           | 221.5        | 14.5          | 75.8 | 23.4      |
| 86  | 52.5 | 274.8           | 224.8        | 14.7          | 77.1 | 30.5      |

**Note:** Performance data is tabulated for heating at 68°F DB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the heating correction factors for variations in entering air temperature. WLHP data shown is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. Rated GPM: 45.0 Minimum CFM 4800; Nominal CFM 6000, Maximum CFM 7200.

**Table 101. Fan correction factors 15 tons - GEV180**

| Entering CFM | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 4200         | 0.958            | 0.885             | 0.998               | 0.985            | 1.096               |
| 4725         | 0.981            | 0.943             | 0.999               | 0.993            | 1.042               |
| 5250         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 5775         | 1.016            | 1.057             | 1.001               | 1.006            | 0.966               |
| 6300         | 1.031            | 1.113             | 1.001               | 1.010            | 0.938               |

**Table 102. Correction factors for variation in entering air temperature 15 tons, GEV180**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 44.5                            | 0.919               | 1.044                  | 0.800                                      | 0.000 | 1.102 | 1.168 | 1.237 | 48                              | 0.752               | 0.753                  |
| 49.4                            | 0.919               | 1.035                  | 0.767                                      | 1.037 | 1.102 | 1.168 | 1.237 | 53                              | 0.798               | 0.799                  |
| 56.3                            | 0.921               | 1.026                  | 0.638                                      | 0.998 | 1.104 | 1.170 | 1.237 | 58                              | 0.846               | 0.847                  |
| 60.3                            | 0.922               | 1.018                  | 0.521                                      | 0.848 | 1.037 | 1.171 | 1.238 | 63                              | 0.896               | 0.896                  |
| 63.2                            | 0.952               | 1.009                  | 0.434                                      | 0.739 | 0.926 | 1.115 | 1.239 | 68                              | 0.947               | 0.947                  |
| 66.2                            | 1.000               | 1.000                  | —                                          | 0.625 | 0.812 | 1.000 | 1.189 | 73                              | 1.000               | 1.000                  |
| 72.1                            | 1.111               | 0.991                  | —                                          | —     | 0.584 | 0.773 | 0.961 | 78                              | 1.055               | 1.054                  |
| 77.1                            | 1.213               | 0.983                  | —                                          | —     | —     | 0.575 | 0.765 | 83                              | 1.112               | 1.111                  |

**Note:** \* = Sensible equals total capacity

## Cooling and Heating Capacities 20 tons

**Table 103. Cooling capacities 20 tons (gross) - GEV240**

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|------|-----------|
| 45  | 30.0 | 293.6           | 217.9           | 0.74 | 7.8           | 320.2        | 66.4 | 4.9       |
| 45  | 40.0 | 297.1           | 219.4           | 0.74 | 7.0           | 320.8        | 61.1 | 8.1       |
| 45  | 50.0 | 299.0           | 220.3           | 0.74 | 6.5           | 321.1        | 57.9 | 11.9      |
| 45  | 60.0 | 300.2           | 220.8           | 0.74 | 6.2           | 321.3        | 55.8 | 16.3      |
| 45  | 70.0 | 301.0           | 221.2           | 0.73 | 6.0           | 321.3        | 54.2 | 21.4      |
| 55  | 30.0 | 285.3           | 214.2           | 0.75 | 9.6           | 318.0        | 76.1 | 4.8       |
| 55  | 40.0 | 288.7           | 215.7           | 0.75 | 8.9           | 318.9        | 70.9 | 7.9       |
| 55  | 50.0 | 290.6           | 216.6           | 0.75 | 8.4           | 319.4        | 67.8 | 11.7      |
| 55  | 60.0 | 291.8           | 217.1           | 0.74 | 8.1           | 319.6        | 65.7 | 16.0      |

**Table 103. Cooling capacities 20 tons (gross) - GEV240 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|-------|-----------|
| 55  | 70.0 | 292.6           | 217.4           | 0.74 | 8.0           | 319.8        | 64.2  | 20.9      |
| 59  | 30.0 | 281.8           | 212.6           | 0.75 | 10.3          | 316.9        | 80.0  | 4.7       |
| 59  | 40.0 | 285.3           | 214.2           | 0.75 | 9.6           | 318.0        | 74.9  | 7.8       |
| 59  | 50.0 | 287.2           | 215.0           | 0.75 | 9.2           | 318.5        | 71.7  | 11.4      |
| 59  | 60.0 | 288.4           | 215.6           | 0.75 | 8.9           | 318.8        | 69.6  | 15.7      |
| 59  | 70.0 | 289.2           | 215.9           | 0.75 | 8.7           | 319.0        | 68.1  | 20.5      |
| 68  | 30.0 | 273.9           | 209.1           | 0.76 | 11.8          | 314.3        | 88.8  | 4.4       |
| 68  | 40.0 | 277.4           | 210.6           | 0.76 | 11.2          | 315.4        | 83.7  | 7.3       |
| 68  | 50.0 | 279.3           | 211.5           | 0.76 | 10.8          | 316.1        | 80.6  | 10.7      |
| 68  | 60.0 | 280.5           | 212.0           | 0.76 | 10.5          | 316.4        | 78.5  | 14.7      |
| 68  | 70.0 | 281.3           | 212.4           | 0.76 | 10.4          | 316.7        | 77.0  | 19.2      |
| 77  | 30.0 | 266.1           | 206.7           | 0.78 | 13.4          | 311.8        | 97.7  | 4.3       |
| 77  | 40.0 | 269.1           | 208.0           | 0.77 | 12.8          | 312.6        | 92.6  | 7.1       |
| 77  | 50.0 | 270.7           | 208.7           | 0.77 | 12.4          | 313.1        | 89.5  | 10.5      |
| 77  | 60.0 | 271.6           | 209.1           | 0.77 | 12.2          | 313.3        | 87.5  | 14.3      |
| 77  | 70.0 | 272.2           | 209.3           | 0.77 | 12.1          | 313.4        | 86.0  | 18.8      |
| 86  | 30.0 | 257.0           | 203.1           | 0.79 | 14.9          | 307.9        | 106.5 | 4.2       |
| 86  | 40.0 | 260.5           | 204.6           | 0.79 | 14.3          | 309.3        | 101.5 | 6.9       |
| 86  | 50.0 | 262.3           | 205.4           | 0.78 | 14.0          | 310.0        | 98.4  | 10.1      |
| 86  | 60.0 | 263.4           | 205.8           | 0.78 | 13.8          | 310.4        | 96.4  | 13.9      |
| 86  | 70.0 | 264.1           | 206.1           | 0.78 | 13.7          | 310.7        | 94.9  | 18.1      |
| 95  | 30.0 | 247.4           | 199.1           | 0.80 | 16.6          | 304.1        | 115.2 | 4.0       |
| 95  | 40.0 | 250.9           | 200.6           | 0.80 | 16.0          | 305.4        | 110.3 | 6.7       |
| 95  | 50.0 | 252.7           | 201.3           | 0.80 | 15.7          | 306.1        | 107.2 | 9.9       |
| 95  | 60.0 | 253.8           | 201.8           | 0.80 | 15.5          | 306.5        | 105.2 | 13.7      |
| 95  | 70.0 | 254.4           | 202.1           | 0.79 | 15.4          | 306.8        | 103.8 | 17.9      |
| 105 | 30.0 | 236.4           | 194.5           | 0.82 | 18.6          | 299.8        | 124.9 | 3.9       |
| 105 | 40.0 | 239.7           | 195.9           | 0.82 | 18.0          | 301.1        | 120.0 | 6.5       |
| 105 | 50.0 | 241.4           | 196.6           | 0.81 | 17.7          | 301.7        | 117.0 | 9.6       |
| 105 | 60.0 | 242.4           | 197.1           | 0.81 | 17.5          | 302.1        | 115.0 | 13.3      |
| 105 | 70.0 | 243.0           | 197.3           | 0.81 | 17.4          | 302.3        | 113.6 | 17.4      |
| 115 | 30.0 | 224.8           | 189.8           | 0.84 | 20.8          | 295.7        | 134.5 | 3.8       |
| 115 | 40.0 | 227.9           | 191.1           | 0.84 | 20.2          | 296.7        | 129.7 | 6.3       |
| 115 | 50.0 | 229.5           | 191.7           | 0.84 | 19.9          | 297.3        | 126.8 | 9.4       |
| 115 | 60.0 | 230.4           | 192.1           | 0.83 | 19.7          | 297.6        | 124.9 | 13.0      |
| 115 | 70.0 | 231.0           | 192.3           | 0.83 | 19.6          | 297.8        | 123.4 | 17.0      |
| 120 | 30.0 | 218.8           | 187.4           | 0.86 | 21.9          | 293.6        | 139.4 | 3.8       |
| 120 | 40.0 | 221.8           | 188.6           | 0.85 | 21.4          | 294.6        | 134.6 | 6.3       |
| 120 | 50.0 | 223.3           | 189.2           | 0.85 | 21.1          | 295.1        | 131.7 | 9.3       |
| 120 | 60.0 | 224.1           | 189.5           | 0.85 | 20.9          | 295.4        | 129.8 | 12.8      |



## Performance Data

**Table 103. Cooling capacities 20 tons (gross) - GEV240 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|-------|-----------|
| 120 | 70.0 | 224.6           | 189.7           | 0.84 | 20.8          | 295.5        | 128.4 | 16.8      |

**Note:** Performance data is tabulated for cooling at 80.6°F DB/66.2°F WB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the cooling correction factors for variations in entering air temperature. WLHP data shown is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. The minimum gpm/ton is 3.0 when the EWT is greater than 115°F and the EAT is less than 67°F WB. Rated GPM: 60.0 Minimum CFM 6400; Nominal CFM 8000, Maximum CFM 9600.

**Table 104. Heating capacities 20 tons (gross) - GEV240**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Comp Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|---------------|------|-----------|
| 25  | 30.0 | 149.3           | 109.3        | 11.7          | 17.1 | 6.6       |
| 25  | 40.0 | 154.1           | 113.6        | 11.9          | 18.9 | 10.9      |
| 25  | 50.0 | 157.1           | 116.4        | 11.9          | 20.0 | 16.1      |
| 25  | 60.0 | 159.2           | 118.3        | 12.0          | 20.8 | 22.1      |
| 25  | 70.0 | 160.8           | 119.7        | 12.0          | 21.3 | 28.8      |
| 32  | 30.0 | 165.7           | 124.1        | 12.2          | 23.1 | 6.4       |
| 32  | 40.0 | 171.2           | 129.1        | 12.3          | 25.1 | 10.6      |
| 32  | 50.0 | 174.7           | 132.4        | 12.4          | 26.3 | 15.6      |
| 32  | 60.0 | 177.2           | 134.6        | 12.5          | 27.2 | 21.4      |
| 32  | 70.0 | 179.0           | 136.3        | 12.5          | 27.8 | 28.0      |
| 45  | 30.0 | 196.2           | 152.2        | 12.9          | 34.6 | 4.9       |
| 45  | 40.0 | 203.2           | 158.7        | 13.1          | 36.9 | 8.1       |
| 45  | 50.0 | 207.8           | 162.9        | 13.2          | 38.4 | 11.9      |
| 45  | 60.0 | 211.0           | 165.8        | 13.2          | 39.4 | 16.3      |
| 45  | 70.0 | 213.4           | 168.0        | 13.3          | 40.1 | 21.4      |
| 55  | 30.0 | 209.2           | 164.2        | 13.2          | 38.8 | 4.8       |
| 55  | 40.0 | 217.0           | 171.3        | 13.4          | 41.3 | 7.9       |
| 55  | 50.0 | 222.0           | 176.0        | 13.5          | 42.8 | 11.7      |
| 55  | 60.0 | 225.6           | 179.3        | 13.6          | 43.9 | 16.0      |
| 55  | 70.0 | 228.3           | 181.7        | 13.7          | 44.7 | 20.9      |
| 59  | 30.0 | 222.6           | 176.4        | 13.5          | 43.0 | 4.7       |
| 59  | 40.0 | 231.2           | 184.4        | 13.7          | 45.6 | 7.8       |
| 59  | 50.0 | 236.7           | 189.5        | 13.8          | 47.3 | 11.4      |
| 59  | 60.0 | 240.7           | 193.2        | 13.9          | 48.4 | 15.7      |
| 59  | 70.0 | 243.7           | 195.9        | 14.0          | 49.3 | 20.5      |
| 68  | 30.0 | 254.8           | 206.2        | 14.2          | 54.0 | 4.4       |
| 68  | 40.0 | 265.3           | 215.8        | 14.5          | 57.0 | 7.3       |
| 68  | 50.0 | 272.2           | 222.2        | 14.7          | 58.9 | 10.7      |
| 68  | 60.0 | 277.1           | 226.7        | 14.8          | 60.3 | 14.7      |
| 68  | 70.0 | 280.8           | 230.1        | 14.9          | 61.3 | 19.2      |
| 77  | 30.0 | 275.0           | 224.8        | 14.7          | 59.7 | 4.3       |
| 77  | 40.0 | 286.9           | 235.7        | 15.0          | 62.9 | 7.1       |
| 77  | 50.0 | 294.8           | 242.9        | 15.2          | 65.0 | 10.5      |
| 77  | 60.0 | 300.4           | 248.1        | 15.4          | 66.5 | 14.3      |
| 77  | 70.0 | 304.7           | 251.9        | 15.5          | 67.6 | 18.8      |

**Table 104. Heating capacities 20 tons (gross) - GEV240 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Comp Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|---------------|------|-----------|
| 86  | 30.0 | 308.2           | 255.2        | 15.6          | 68.5 | 4.2       |
| 86  | 40.0 | 322.7           | 268.4        | 15.9          | 72.1 | 6.9       |
| 86  | 50.0 | 332.3           | 277.1        | 16.2          | 74.5 | 10.1      |
| 86  | 60.0 | 339.1           | 283.3        | 16.4          | 76.2 | 13.9      |
| 86  | 70.0 | 344.3           | 288.0        | 16.5          | 77.5 | 18.1      |

**Note:** Performance data is tabulated for heating at 68°F DB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the heating correction factors for variations in entering air temperature. WLHP data shown is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. Rated GPM: 60.0 Minimum CFM 6400; Nominal CFM 8000, Maximum CFM 9600.

**Table 105. Fan correction factors 20 tons - GEV240**

| Entering CFM | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 5600         | 0.957            | 0.887             | 1.000               | 0.982            | 1.094               |
| 6300         | 0.981            | 0.944             | 1.000               | 0.992            | 1.042               |
| 7000         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 7700         | 1.017            | 1.055             | 1.000               | 1.007            | 0.966               |
| 8400         | 1.031            | 1.111             | 1.000               | 1.012            | 0.938               |

**Table 106. Correction factors for variation in entering air temperature 20 tons, GEV240**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 44.5                            | 0.919               | 1.044                  | 0.800                                      | 0.000 | 1.102 | 1.168 | 1.237 | 48                              | 0.752               | 0.753                  |
| 49.4                            | 0.919               | 1.035                  | 0.767                                      | 1.037 | 1.102 | 1.168 | 1.237 | 53                              | 0.798               | 0.799                  |
| 56.3                            | 0.921               | 1.026                  | 0.638                                      | 0.998 | 1.104 | 1.170 | 1.237 | 58                              | 0.846               | 0.847                  |
| 60.3                            | 0.922               | 1.018                  | 0.521                                      | 0.848 | 1.037 | 1.171 | 1.238 | 63                              | 0.896               | 0.896                  |
| 63.2                            | 0.952               | 1.009                  | 0.434                                      | 0.739 | 0.926 | 1.115 | 1.239 | 68                              | 0.947               | 0.947                  |
| 66.2                            | 1.000               | 1.000                  | —                                          | 0.625 | 0.812 | 1.000 | 1.189 | 73                              | 1.000               | 1.000                  |
| 72.1                            | 1.111               | 0.991                  | —                                          | —     | 0.584 | 0.773 | 0.961 | 78                              | 1.055               | 1.054                  |
| 77.1                            | 1.213               | 0.983                  | —                                          | —     | —     | 0.575 | 0.765 | 83                              | 1.112               | 1.111                  |

**Note:** \* = Sensible equals total capacity

## Cooling and Heating Capacities 25 tons

**Table 107. Cooling capacities 25 tons (gross) - GEV300**

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|------|-----------|
| 45  | 37.5 | 373.9           | 276.2           | 0.74 | 12.1          | 415.2        | 67.2 | 6.0       |
| 45  | 50.0 | 379.0           | 278.4           | 0.73 | 11.3          | 417.6        | 61.7 | 9.9       |
| 45  | 62.5 | 382.0           | 279.8           | 0.73 | 10.8          | 419.0        | 58.5 | 14.6      |
| 45  | 75.0 | 383.9           | 280.6           | 0.73 | 10.5          | 419.8        | 56.2 | 20.0      |
| 45  | 87.5 | 385.2           | 281.2           | 0.73 | 10.3          | 420.4        | 54.7 | 26.2      |
| 55  | 37.5 | 362.5           | 271.3           | 0.75 | 13.9          | 410.1        | 76.8 | 5.9       |
| 55  | 50.0 | 367.5           | 273.4           | 0.74 | 13.1          | 412.3        | 71.5 | 9.7       |
| 55  | 62.5 | 370.4           | 274.7           | 0.74 | 12.7          | 413.6        | 68.2 | 14.3      |
| 55  | 75.0 | 372.2           | 275.5           | 0.74 | 12.4          | 414.4        | 66.1 | 19.6      |



## Performance Data

**Table 107. Cooling capacities 25 tons (gross) - GEV300 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|-------|-----------|
| 55  | 87.5 | 373.5           | 276.0           | 0.74 | 12.2          | 415.0        | 64.5  | 25.7      |
| 59  | 37.5 | 357.9           | 269.2           | 0.75 | 14.7          | 408.0        | 80.7  | 5.8       |
| 59  | 50.0 | 362.9           | 271.4           | 0.75 | 13.9          | 410.2        | 75.4  | 9.5       |
| 59  | 62.5 | 365.7           | 272.6           | 0.75 | 13.4          | 411.5        | 72.2  | 14.0      |
| 59  | 75.0 | 367.6           | 273.4           | 0.74 | 13.1          | 412.3        | 70.0  | 19.2      |
| 59  | 87.5 | 368.8           | 274.0           | 0.74 | 12.9          | 412.8        | 68.4  | 25.2      |
| 68  | 37.5 | 347.2           | 264.6           | 0.76 | 16.5          | 403.4        | 89.4  | 5.4       |
| 68  | 50.0 | 352.2           | 266.8           | 0.76 | 15.6          | 405.5        | 84.1  | 8.9       |
| 68  | 62.5 | 355.0           | 268.0           | 0.75 | 15.2          | 406.7        | 81.0  | 13.1      |
| 68  | 75.0 | 356.8           | 268.8           | 0.75 | 14.9          | 407.5        | 78.8  | 18.0      |
| 68  | 87.5 | 358.1           | 269.3           | 0.75 | 14.6          | 408.0        | 77.3  | 23.5      |
| 77  | 37.5 | 335.6           | 260.1           | 0.77 | 18.3          | 398.0        | 98.1  | 5.3       |
| 77  | 50.0 | 339.9           | 262.0           | 0.77 | 17.5          | 399.5        | 93.0  | 8.7       |
| 77  | 62.5 | 342.4           | 263.0           | 0.77 | 17.0          | 400.4        | 89.8  | 12.8      |
| 77  | 75.0 | 344.0           | 263.7           | 0.77 | 16.7          | 400.9        | 87.7  | 17.6      |
| 77  | 87.5 | 345.1           | 264.2           | 0.77 | 16.5          | 401.3        | 86.2  | 23.0      |
| 86  | 37.5 | 323.5           | 255.0           | 0.79 | 20.3          | 392.9        | 107.0 | 5.1       |
| 86  | 50.0 | 328.5           | 257.2           | 0.78 | 19.5          | 394.9        | 101.9 | 8.4       |
| 86  | 62.5 | 331.4           | 258.4           | 0.78 | 19.0          | 396.1        | 98.7  | 12.4      |
| 86  | 75.0 | 333.2           | 259.2           | 0.78 | 18.7          | 396.8        | 96.6  | 17.0      |
| 86  | 87.5 | 334.4           | 259.7           | 0.78 | 18.4          | 397.3        | 95.1  | 22.2      |
| 95  | 37.5 | 310.8           | 249.7           | 0.80 | 22.6          | 387.8        | 115.7 | 3.8       |
| 95  | 50.0 | 315.8           | 251.8           | 0.80 | 21.7          | 389.8        | 110.6 | 6.3       |
| 95  | 62.5 | 318.6           | 253.0           | 0.79 | 21.2          | 390.9        | 107.5 | 9.3       |
| 95  | 75.0 | 320.4           | 253.8           | 0.79 | 20.9          | 391.6        | 105.5 | 12.9      |
| 95  | 87.5 | 321.6           | 254.3           | 0.79 | 20.6          | 392.1        | 104.0 | 16.9      |
| 105 | 37.5 | 295.8           | 243.6           | 0.82 | 25.3          | 382.2        | 125.3 | 3.7       |
| 105 | 50.0 | 300.8           | 245.6           | 0.82 | 24.4          | 384.0        | 120.3 | 6.1       |
| 105 | 62.5 | 303.6           | 246.8           | 0.81 | 23.9          | 385.0        | 117.3 | 9.1       |
| 105 | 75.0 | 305.3           | 247.5           | 0.81 | 23.6          | 385.7        | 115.3 | 12.5      |
| 105 | 87.5 | 306.5           | 248.0           | 0.81 | 23.3          | 386.1        | 113.8 | 16.5      |
| 115 | 37.5 | 280.1           | 237.1           | 0.85 | 28.3          | 376.6        | 135.0 | 3.6       |
| 115 | 50.0 | 284.8           | 239.1           | 0.84 | 27.4          | 378.3        | 130.1 | 6.0       |
| 115 | 62.5 | 287.5           | 240.2           | 0.84 | 26.9          | 379.2        | 127.1 | 8.9       |
| 115 | 75.0 | 289.2           | 240.8           | 0.83 | 26.6          | 379.8        | 125.1 | 12.2      |
| 115 | 87.5 | 290.3           | 241.3           | 0.83 | 26.3          | 380.2        | 123.7 | 16.0      |
| 120 | 37.5 | 271.9           | 233.8           | 0.86 | 29.9          | 373.8        | 139.8 | 3.5       |
| 120 | 50.0 | 276.5           | 235.7           | 0.85 | 29.0          | 375.4        | 134.9 | 5.9       |
| 120 | 62.5 | 279.1           | 236.7           | 0.85 | 28.5          | 376.3        | 132.0 | 8.8       |
| 120 | 75.0 | 280.7           | 237.4           | 0.85 | 28.2          | 376.8        | 130.0 | 12.1      |



**Table 107. Cooling capacities 25 tons (gross) - GEV300 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Gross Sen Mbtuh | SHR  | Comp Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-----------------|-----------------|------|---------------|--------------|-------|-----------|
| 120 | 87.5 | 281.8           | 237.8           | 0.84 | 28.0          | 377.2        | 128.6 | 15.8      |

**Note:** Performance data is tabulated for cooling at 80.6°F DB/66.2°F WB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the cooling correction factors for variations in entering air temperature. WLHP data shown is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. The minimum gpm/ton is 3.0 when the EWT is greater than 115°F and the EAT is less than 67°F WB. Rated GPM: 75.0 Minimum CFM 8000; Nominal CFM 10000, Maximum CFM 12000.

**Table 108. Heating capacities 25 tons (gross) - GEV300**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Comp Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|---------------|------|-----------|
| 25  | 37.5 | 193.8           | 136.4        | 16.8          | 16.9 | 8.1       |
| 25  | 50.0 | 199.6           | 141.7        | 17.0          | 18.7 | 13.4      |
| 25  | 62.5 | 203.4           | 145.2        | 17.1          | 19.9 | 19.7      |
| 25  | 75.0 | 206.0           | 147.5        | 17.1          | 20.7 | 27.0      |
| 25  | 87.5 | 208.0           | 149.3        | 17.2          | 21.2 | 35.4      |
| 32  | 37.5 | 213.7           | 154.5        | 17.3          | 22.9 | 7.9       |
| 32  | 50.0 | 220.6           | 160.8        | 17.5          | 24.9 | 13.0      |
| 32  | 62.5 | 225.1           | 164.9        | 17.6          | 26.2 | 19.1      |
| 32  | 75.0 | 228.3           | 167.8        | 17.7          | 27.1 | 26.2      |
| 32  | 87.5 | 230.6           | 169.9        | 17.8          | 27.7 | 34.3      |
| 45  | 37.5 | 254.0           | 191.7        | 18.3          | 34.6 | 6.0       |
| 45  | 50.0 | 263.0           | 199.9        | 18.5          | 36.9 | 9.9       |
| 45  | 62.5 | 268.9           | 205.3        | 18.6          | 38.3 | 14.6      |
| 45  | 75.0 | 273.1           | 209.1        | 18.8          | 39.3 | 20.0      |
| 45  | 87.5 | 276.3           | 212.0        | 18.8          | 40.1 | 26.2      |
| 55  | 37.5 | 270.7           | 206.9        | 18.7          | 38.8 | 5.9       |
| 55  | 50.0 | 280.9           | 216.2        | 19.0          | 41.2 | 9.7       |
| 55  | 62.5 | 287.5           | 222.3        | 19.1          | 42.8 | 14.3      |
| 55  | 75.0 | 292.3           | 226.6        | 19.3          | 43.8 | 19.6      |
| 55  | 87.5 | 295.8           | 229.8        | 19.3          | 44.7 | 25.7      |
| 59  | 37.5 | 288.1           | 222.7        | 19.1          | 42.9 | 5.8       |
| 59  | 50.0 | 299.4           | 233.1        | 19.4          | 45.5 | 9.5       |
| 59  | 62.5 | 306.9           | 239.9        | 19.6          | 47.2 | 14.0      |
| 59  | 75.0 | 312.3           | 244.8        | 19.8          | 48.4 | 19.2      |
| 59  | 87.5 | 316.2           | 248.4        | 19.9          | 49.2 | 25.2      |
| 68  | 37.5 | 333.9           | 265.2        | 20.1          | 53.7 | 5.4       |
| 68  | 50.0 | 348.1           | 278.1        | 20.5          | 56.7 | 8.9       |
| 68  | 62.5 | 357.6           | 286.7        | 20.8          | 58.7 | 13.1      |
| 68  | 75.0 | 364.3           | 292.8        | 21.0          | 60.1 | 18.0      |
| 68  | 87.5 | 369.3           | 297.3        | 21.1          | 61.1 | 23.5      |
| 77  | 37.5 | 360.9           | 289.7        | 20.9          | 59.3 | 5.3       |
| 77  | 50.0 | 377.2           | 304.5        | 21.3          | 62.6 | 8.7       |
| 77  | 62.5 | 388.0           | 314.3        | 21.6          | 64.7 | 12.8      |
| 77  | 75.0 | 395.7           | 321.3        | 21.8          | 66.2 | 17.6      |
| 77  | 87.5 | 401.4           | 326.4        | 22.0          | 67.4 | 23.0      |



## Performance Data

**Table 108. Heating capacities 25 tons (gross) - GEV300 (continued)**

| EWT | GPM  | Gross Cap Mbtuh | Absorb Mbtuh | Comp Power kW | LWT  | Feet Head |
|-----|------|-----------------|--------------|---------------|------|-----------|
| 86  | 37.5 | 405.4           | 330.1        | 22.1          | 68.0 | 5.1       |
| 86  | 50.0 | 425.3           | 348.0        | 22.6          | 71.7 | 8.4       |
| 86  | 62.5 | 438.4           | 359.9        | 23.0          | 74.1 | 12.4      |
| 86  | 75.0 | 447.8           | 368.3        | 23.3          | 75.9 | 17.0      |
| 86  | 87.5 | 454.8           | 374.6        | 23.5          | 77.2 | 22.2      |

**Note:** Performance data is tabulated for heating at 68°F DB entering air. For conditions other than what is tabulated, multipliers must be used to correct performance. See the fan correction factors table for CFM other than rated and the heating correction factors for variations in entering air temperature. WLHP data shown is performance data at ANSI/AHRI/ASHRAE/ISO13256-1. For ANSI/AHRI/ASHRAE/ISO13256-1 GLHP conditions, apply 15% methanol by volume per the antifreeze correction factors found in the performance correction tables. Rated GPM: 75.0 Minimum CFM 8000; Nominal CFM 10000, Maximum CFM 12000.

**Table 109. Fan correction factors 25 tons - GEV300**

| Entering CFM | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 7000         | 0.956            | 0.886             | 0.999               | 0.982            | 1.096               |
| 7875         | 0.980            | 0.944             | 1.000               | 0.992            | 1.042               |
| 8750         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 9625         | 1.017            | 1.055             | 1.000               | 1.007            | 0.966               |
| 10500        | 1.033            | 1.111             | 1.000               | 1.012            | 0.938               |

**Table 110. Correction factors for variation in entering air temperature 25 tons, GEV300**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>Capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>Capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|--------------------------------------------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 44.5                            | 0.920               | 1.053                  | 0.797                                      | 0.000 | 1.114 | 1.182 | 1.255 | 43                              | 0.752               | 0.756                  |
| 49.4                            | 0.920               | 1.042                  | 0.765                                      | 1.048 | 1.114 | 1.182 | 1.255 | 48                              | 0.798               | 0.802                  |
| 56.3                            | 0.921               | 1.032                  | 0.630                                      | 0.996 | 1.116 | 1.184 | 1.255 | 53                              | 0.845               | 0.849                  |
| 60.3                            | 0.922               | 1.021                  | 0.516                                      | 0.848 | 1.034 | 1.185 | 1.256 | 58                              | 0.895               | 0.897                  |
| 63.2                            | 0.951               | 1.011                  | 0.432                                      | 0.741 | 0.926 | 1.112 | 1.257 | 63                              | 0.946               | 0.948                  |
| 66.2                            | 1.000               | 1.000                  | —                                          | 0.629 | 0.815 | 1.000 | 1.187 | 68                              | 1.000               | 1.000                  |
| 72.1                            | 1.115               | 0.989                  | —                                          | —     | 0.591 | 0.778 | 0.965 | 73                              | 1.056               | 1.054                  |
| 77.1                            | 1.225               | 0.979                  | —                                          | —     | —     | 0.586 | 0.773 | 78                              | 1.116               | 1.111                  |

**Note:** \* = Sensible equals total capacity

# Waterside Economizer

Table 111. Waterside economizer performance GEV/H006–060

| MODEL    | Airside |                | Waterside |     |               | Cooling Capacity |                |
|----------|---------|----------------|-----------|-----|---------------|------------------|----------------|
|          | CFM     | APD (in. w.g.) | GPM       | EWT | WPD (ft. hd.) | Total Mbtuh      | Sensible Mbtuh |
| GEV/H006 | 190     | 0.04           | 1.5       | 45  | 0.52          | 6.7              | 5.0            |
|          |         |                |           | 50  | 0.50          | 5.1              | 4.4            |
|          |         |                |           | 55  | 0.50          | 4.0              | 3.8            |
|          |         |                |           | 60  | 0.50          | 3.1              | 3.0            |
|          |         |                |           | 65  | 0.49          | 2.3              | 2.3            |
|          |         |                |           | 70  | 0.49          | 1.5              | 1.5            |
| GEV/H009 | 285     | 0.07           | 2.3       | 45  | 1.08          | 8.9              | 6.9            |
|          |         |                |           | 50  | 1.07          | 6.8              | 6.1            |
|          |         |                |           | 55  | 1.06          | 5.4              | 5.2            |
|          |         |                |           | 60  | 1.04          | 4.3              | 4.2            |
|          |         |                |           | 65  | 1.02          | 3.2              | 3.2            |
|          |         |                |           | 70  | 1.01          | 2.1              | 2.1            |
| GEV/H012 | 380     | 0.12           | 3.0       | 45  | 1.80          | 11.2             | 8.7            |
|          |         |                |           | 50  | 1.78          | 8.6              | 7.9            |
|          |         |                |           | 55  | 1.75          | 6.9              | 6.7            |
|          |         |                |           | 60  | 1.72          | 5.4              | 5.3            |
|          |         |                |           | 65  | 1.70          | 4.1              | 4.1            |
|          |         |                |           | 70  | 1.69          | 2.8              | 2.8            |
| GEV/H015 | 475     | 0.10           | 3.8       | 45  | 2.47          | 14.7             | 11.5           |
|          |         |                |           | 50  | 2.43          | 11.3             | 10.1           |
|          |         |                |           | 55  | 2.41          | 9.0              | 8.7            |
|          |         |                |           | 60  | 2.39          | 7.1              | 7.0            |
|          |         |                |           | 65  | 2.37          | 5.3              | 5.2            |
|          |         |                |           | 70  | 2.36          | 3.5              | 3.5            |
| GEV/H018 | 570     | 0.14           | 4.5       | 45  | 3.43          | 17.2             | 13.4           |
|          |         |                |           | 50  | 3.42          | 13.1             | 11.9           |
|          |         |                |           | 55  | 3.40          | 10.4             | 10.1           |
|          |         |                |           | 60  | 3.39          | 8.2              | 8.0            |
|          |         |                |           | 65  | 3.38          | 6.2              | 6.1            |
|          |         |                |           | 70  | 3.38          | 4.1              | 4.1            |
| GEV/H024 | 760     | 0.17           | 6.0       | 45  | 5.93          | 22.8             | 17.8           |
|          |         |                |           | 50  | 5.91          | 17.3             | 15.7           |
|          |         |                |           | 55  | 5.89          | 13.7             | 13.3           |
|          |         |                |           | 60  | 5.88          | 10.7             | 10.5           |
|          |         |                |           | 65  | 5.86          | 8.1              | 8.0            |
|          |         |                |           | 70  | 5.85          | 5.4              | 5.4            |



## Performance Data

**Table 111. Waterside economizer performance GEV/H006–060 (continued)**

| MODEL    | Airside |                | Waterside |     |               | Cooling Capacity |                |
|----------|---------|----------------|-----------|-----|---------------|------------------|----------------|
|          | CFM     | APD (in. w.g.) | GPM       | EWT | WPD (ft. hd.) | Total Mbtuh      | Sensible Mbtuh |
| GEV/H030 | 950     | 0.25           | 7.5       | 45  | 9.17          | 27.4             | 21.4           |
|          |         |                |           | 50  | 9.15          | 20.5             | 18.9           |
|          |         |                |           | 55  | 9.12          | 16.2             | 15.7           |
|          |         |                |           | 60  | 9.10          | 12.8             | 12.5           |
|          |         |                |           | 65  | 9.08          | 9.6              | 9.5            |
|          |         |                |           | 70  | 9.06          | 6.5              | 6.5            |
| GEV/H036 | 1140    | 0.20           | 9.0       | 45  | 9.62          | 35.0             | 27.3           |
|          |         |                |           | 50  | 9.60          | 26.2             | 23.8           |
|          |         |                |           | 55  | 9.58          | 20.6             | 20.0           |
|          |         |                |           | 60  | 9.56          | 16.2             | 15.9           |
|          |         |                |           | 65  | 9.54          | 12.1             | 12.0           |
|          |         |                |           | 70  | 9.52          | 8.1              | 8.1            |
| GEV/H042 | 1330    | 0.26           | 10.5      | 45  | 13.00         | 39.5             | 30.8           |
|          |         |                |           | 50  | 12.98         | 29.5             | 26.8           |
|          |         |                |           | 55  | 12.95         | 23.2             | 22.5           |
|          |         |                |           | 60  | 12.93         | 18.3             | 17.9           |
|          |         |                |           | 65  | 12.90         | 13.8             | 13.7           |
|          |         |                |           | 70  | 12.88         | 9.2              | 9.2            |
| GEV/H048 | 1520    | 0.21           | 12.0      | 45  | 6.40          | 44.7             | 34.9           |
|          |         |                |           | 50  | 6.39          | 33.8             | 31.1           |
|          |         |                |           | 55  | 6.38          | 26.8             | 26.0           |
|          |         |                |           | 60  | 6.37          | 21.1             | 20.7           |
|          |         |                |           | 65  | 6.36          | 15.9             | 15.7           |
|          |         |                |           | 70  | 6.35          | 10.7             | 10.7           |
| GEV/H060 | 1900    | 0.30           | 15.0      | 45  | 9.93          | 53.6             | 41.8           |
|          |         |                |           | 50  | 9.92          | 40.1             | 36.9           |
|          |         |                |           | 55  | 9.91          | 31.7             | 30.7           |
|          |         |                |           | 60  | 9.89          | 25.2             | 24.7           |
|          |         |                |           | 65  | 9.88          | 19.1             | 18.9           |
|          |         |                |           | 70  | 9.86          | 12.9             | 12.9           |

**Notes:**

1. The waterside pressure drops shown only account for the waterside economizer coil.
2. The airside pressure drop shown only accounts for the waterside economizer coil with a wet coil.
3. Capacity is at rated airflow at 80°F/67°F entering air temperature.

**Table 112. Waterside economizer performance (6 to 25 tons)**

| Unit Model Number | scfm | GPM  | Total Capacity (Mbh) | Sensible Capacity (Mbh) | LVG. Air DB (°F) | LVG. Air WB (°F) | Standard APD (in. wg.) | LVG. Fluid Temp (°F) | Fluid PD (FT H2O) | Fluid PD Coil In (FT H2O) | Fluid PD Coil Out (FT H2O) |
|-------------------|------|------|----------------------|-------------------------|------------------|------------------|------------------------|----------------------|-------------------|---------------------------|----------------------------|
| GEHK072           | 2400 | 13.2 | 65.2                 | 52.3                    | 60.1             | 58.6             | 0.26                   | 54.8                 | —                 | 3.8                       | 1.1                        |
| GEHK072           | 2400 | 16.8 | 73.1                 | 55.3                    | 58.9             | 57.4             | 0.27                   | 53.7                 | —                 | 6.1                       | 1.7                        |

**Table 112. Waterside economizer performance (6 to 25 tons) (continued)**

| Unit Model Number | scfm  | GPM  | Total Capacity (Mbh) | Sensible Capacity (Mbh) | LVG. Air DB (°F) | LVG. Air WB (°F) | Standard APD (in. wg.) | LVG. Fluid Temp (°F) | Fluid PD (FT H2O) | Fluid PD Coil In (FT H2O) | Fluid PD Coil Out (FT H2O) |
|-------------------|-------|------|----------------------|-------------------------|------------------|------------------|------------------------|----------------------|-------------------|---------------------------|----------------------------|
| GEHK072           | 2400  | 18.6 | 76.2                 | 56.5                    | 58.5             | 57               | 0.27                   | 53.2                 | —                 | 7.5                       | 2.1                        |
| GEHK090           | 3000  | 16.5 | 83.4                 | 52.5                    | 60               | 58.3             | 0.31                   | 55.1                 | —                 | 6.1                       | 1.7                        |
| GEHK090           | 3000  | 21   | 92.2                 | 55.2                    | 59               | 57.3             | 0.32                   | 53.8                 | —                 | 9.8                       | 2.7                        |
| GEHK090           | 3000  | 23.3 | 95.6                 | 56.3                    | 58.6             | 56.9             | 0.32                   | 53.2                 | —                 | 12                        | 3.3                        |
| GEHK120           | 4000  | 22   | 119.8                | 54.5                    | 59.2             | 57.6             | 0.31                   | 55.9                 | —                 | 9.3                       | 1.2                        |
| GEHK120           | 4000  | 28   | 130.3                | 57                      | 58.3             | 56.7             | 0.32                   | 54.3                 | —                 | 15.1                      | 1.9                        |
| GEHK120           | 4000  | 31   | 134.4                | 58                      | 57.9             | 56.3             | 0.32                   | 53.6                 | —                 | 18.5                      | 2.3                        |
| GEHK150           | 5000  | 27.5 | 153.5                | 116.2                   | 58.7             | 57.3             | 0.28                   | 56.1                 | —                 | 10.7                      | 1.6                        |
| GEHK150           | 5000  | 35   | 167.5                | 121.8                   | 57.7             | 56.4             | 0.28                   | 54.5                 | —                 | 17.4                      | 2.6                        |
| GEHK150           | 5000  | 38.8 | 172.9                | 123.9                   | 57.3             | 56               | 0.29                   | 53.9                 | —                 | 21.3                      | 3.1                        |
| GEHK180           | 6000  | 33   | 176.9                | 135                     | 59.4             | 57.8             | 0.37                   | 55.7                 | —                 | 15.5                      | 2.3                        |
| GEHK180           | 6000  | 42   | 191.8                | 140.8                   | 58.5             | 56.9             | 0.38                   | 54.1                 | —                 | 25                        | 3.7                        |
| GEHK180           | 6000  | 46.5 | 197.8                | 143.2                   | 58.2             | 56.6             | 0.38                   | 53.5                 | —                 | 30.7                      | 4.5                        |
| GEVK072           | 2400  | 13.2 | 72.1                 | 55                      | 59.1             | 57.6             | 0.29                   | 55.9                 | —                 | 8.3                       | 1.1                        |
| GEVK072           | 2400  | 16.8 | 78.7                 | 57.6                    | 58.1             | 56.6             | 0.3                    | 54.3                 | —                 | 13.4                      | 1.7                        |
| GEVK072           | 2400  | 18.6 | 81.3                 | 58.6                    | 57.7             | 56.2             | 0.3                    | 53.7                 | —                 | 16.4                      | 2.1                        |
| GEVK090           | 3000  | 16.5 | 88.8                 | 67.9                    | 59.3             | 57.7             | 0.32                   | 55.7                 | —                 | 10                        | 1.7                        |
| GEVK090           | 3000  | 21   | 96.7                 | 71                      | 58.4             | 56.8             | 0.33                   | 54.2                 | —                 | 16.2                      | 2.7                        |
| GEVK090           | 3000  | 23.3 | 99.8                 | 72.2                    | 58               | 56.4             | 0.34                   | 53.6                 | —                 | 19.9                      | 3.3                        |
| GEVK120           | 4000  | 22   | 117.4                | 89.9                    | 59.4             | 57.8             | 0.34                   | 55.6                 | —                 | 10.1                      | 1.4                        |
| GEVK120           | 4000  | 28   | 127.7                | 94                      | 58.5             | 56.9             | 0.35                   | 54.1                 | —                 | 16.3                      | 2.2                        |
| GEVK120           | 4000  | 31   | 131.8                | 95.6                    | 58.2             | 56.6             | 0.36                   | 53.5                 | —                 | 20                        | 2.7                        |
| GEVK150           | 5000  | 27.5 | 160.4                | 120.6                   | 58               | 56.9             | 0.18                   | 56.6                 | —                 | 6.9                       | 0.9                        |
| GEVK150           | 5000  | 35   | 177.4                | 127.3                   | 56.7             | 55.7             | 0.18                   | 55.1                 | —                 | 11.2                      | 1.5                        |
| GEVK150           | 5000  | 38.8 | 184                  | 130                     | 56.2             | 55.2             | 0.19                   | 54.5                 | —                 | 13.8                      | 1.8                        |
| GEVK180           | 6000  | 33   | 187.3                | 141.4                   | 58.5             | 57.2             | 0.23                   | 56.3                 | —                 | 9.8                       | 1.3                        |
| GEVK180           | 6000  | 42   | 205.4                | 148.5                   | 57.4             | 56.1             | 0.24                   | 54.8                 | —                 | 15.9                      | 2.2                        |
| GEVK180           | 6000  | 46.5 | 212.3                | 151.3                   | 56.9             | 55.7             | 0.25                   | 54.1                 | —                 | 19.5                      | 2.7                        |
| GEVK240           | 8000  | 44   | 241.7                | 183.4                   | 59               | 57.5             | 0.3                    | 56                   | —                 | 8.6                       | 0.7                        |
| GEVK240           | 8000  | 56   | 263                  | 191.8                   | 58.1             | 56.6             | 0.32                   | 54.4                 | —                 | 13.9                      | 1.1                        |
| GEVK240           | 8000  | 62   | 271.3                | 195.1                   | 57.7             | 56.2             | 0.32                   | 53.7                 | —                 | 17                        | 1.4                        |
| GEVK300           | 10000 | 55   | 280.8                | 219.5                   | 60.1             | 58.2             | 0.52                   | 55.2                 | —                 | 9.8                       | 1.1                        |
| GEVK300           | 10000 | 70   | 299                  | 228.4                   | 59.3             | 57.5             | 0.52                   | 53.5                 | —                 | 15.8                      | 1.8                        |
| GEVK300           | 10000 | 77.5 | 306.8                | 232.1                   | 58.9             | 57.3             | 0.53                   | 52.9                 | —                 | 19.4                      | 2.2                        |

**Notes:**

1. The waterside pressure drops shown only account for the waterside economizer coil.
2. The airside pressure drop shown only accounts for the waterside economizer coil with a wet coil.
3. Capacity is at rated airflow at 80°F/67°F entering air temperature and 45°F entering water temperature.



## Performance Data

**Table 113. Antifreeze correction factors**

| Methanol (concentration by volume)         |       |       |       |       |       |       |
|--------------------------------------------|-------|-------|-------|-------|-------|-------|
| Item                                       | 0%    | 10%   | 20%   | 30%   | 40%   | 50%   |
| Cooling Capacity                           | 1.000 | 0.998 | 0.997 | 0.995 | 0.993 | 0.992 |
| Heating Capacity                           | 1.000 | 0.995 | 0.990 | 0.985 | 0.979 | 0.974 |
| Pressure Drop                              | 1.000 | 1.023 | 1.057 | 1.091 | 1.122 | 1.160 |
| Ethylene Glycol (concentration by volume)  |       |       |       |       |       |       |
| Item                                       | 0%    | 10%   | 20%   | 30%   | 40%   | 50%   |
| Cooling Capacity                           | 1.000 | 0.996 | 0.991 | 0.987 | 0.983 | 0.979 |
| Heating Capacity                           | 1.000 | 0.993 | 0.985 | 0.977 | 0.969 | 0.961 |
| Pressure Drop                              | 1.000 | 1.024 | 1.068 | 1.124 | 1.188 | 1.263 |
| Propylene Glycol (concentration by volume) |       |       |       |       |       |       |
| Item                                       | 0%    | 10%   | 20%   | 30%   | 40%   | 50%   |
| Cooling Capacity                           | 1.000 | 0.993 | 0.987 | 0.980 | 0.974 | 0.968 |
| Heating Capacity                           | 1.000 | 0.986 | 0.973 | 0.960 | 0.948 | 0.935 |
| Pressure Drop                              | 1.000 | 1.040 | 1.098 | 1.174 | 1.273 | 1.405 |
| Brine (NaCL) (concentration by volume)     |       |       |       |       |       |       |
| Item                                       | 0%    | 10%   | 20%   | 30%   | 40%   | 50%   |
| Cooling Capacity                           | 1.000 | 0.994 | 0.987 | 0.979 | 0.971 | 0.963 |
| Heating Capacity                           | 1.000 | 0.993 | 0.987 | 0.982 | 0.978 | 0.976 |
| Pressure Drop                              | 1.000 | 1.154 | 1.325 | 1.497 | 1.669 | 1.841 |

## Examples

### Example 1 (Ethylene Glycol):

The antifreeze solution is 20 percent by volume of Ethylene Glycol. Determine the corrected cooling capacity and waterside pressure drop for a GEH018 when the EWT is 86°F and the GPM is 4.5.

From the catalog data, the cooling capacity at these conditions with 100 percent water is 18.9 Mbtuh, and the waterside pressure drop is 11.8 feet of head. At 20 percent Ethylene Glycol, the correction factor for cool capacity is 0.991 and the pressure drop is 1.068.

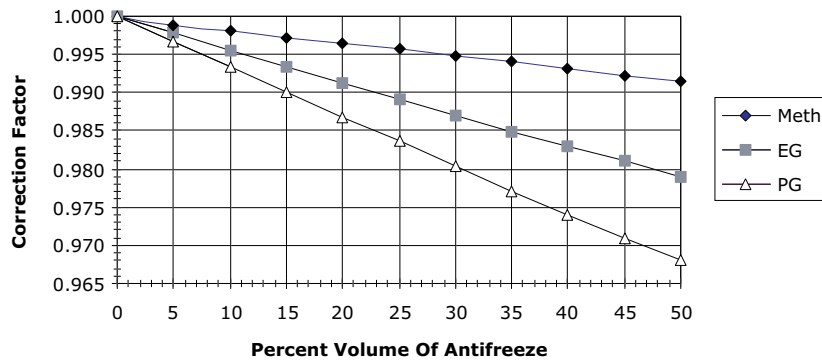
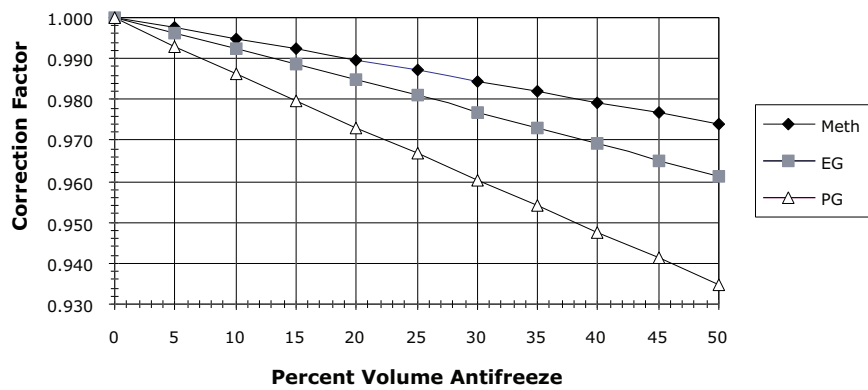
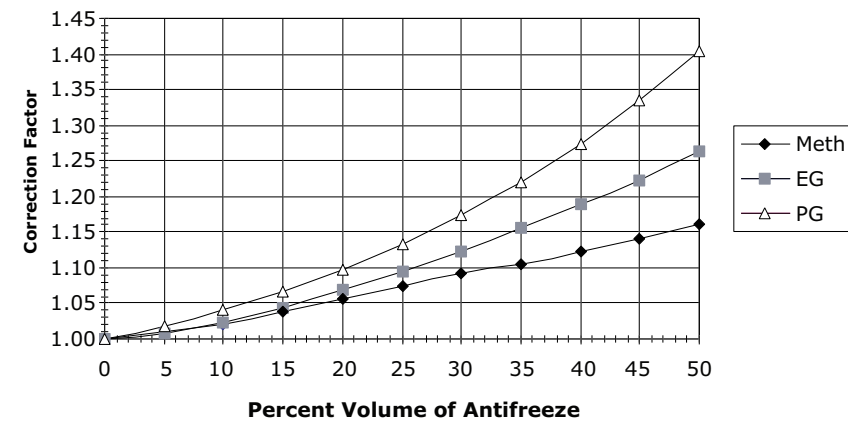
The corrected cooling capacity (Mbtuh) =  $18.9 \times 0.991 = 18.7$ . The corrected water side pressure drop (Ft. head) =  $11.8 \times 1.068 = 12.6$ .

### Example 2 (Propylene Glycol):

The antifreeze solution is 30 percent by volume of Propylene Glycol. Determine the corrected heating capacity and waterside pressure drop for a GEH042 when the EWT is 45°F and the GPM is 9.5.

From the catalog data, the heating capacity at these conditions with 100 percent water is 40.4 Mbtuh, and the waterside pressure drop is 8.6 feet of head. At 30 percent Propylene Glycol, the correction factor for heat capacity is 0.960 and the pressure drop is 1.174.

The corrected heating capacity (Mbtuh) =  $40.4 \times 0.960 = 38.8$ . The corrected water side pressure drop (Ft. head) =  $8.6 \times 1.174 = 10.1$ .

**Figure 13. Cooling capacity correction factor**

**Figure 14. Heating capacity correction factor**

**Figure 15. Water pressure drop correction factor**


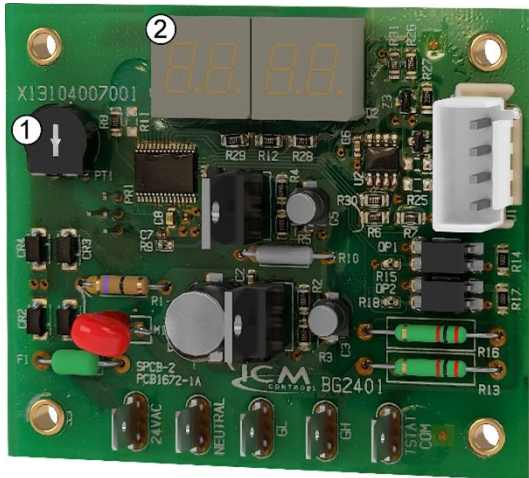
# Unit Fan Performance

## ECM Control Board

### Units with Deluxe 24V

For GEV/H006-060, the ECM is programmed for constant torque and delivers airflow similar to a PSC motor while operating at a higher efficiency.

**Figure 16. ECM control board**



1. Potentiometer will be used to adjust the PWM output
2. Seven segment display

Using a screwdriver, the potentiometer will be used to adjust the PWM output from 20% to 100% PWM. Increasing the PWM will increase the motor speed. When setting the airflow for air balancing, the high-speed terminal (GH) must have 24Vac signal. This will ensure that the PWM output will be adjusted for the full load airflow.

The display will show the commanded motor speed percentage. If running on low speed (GL), the low-speed value will be displayed. If running in GH the high-speed value will be displayed. If both GH and GL input signals are present, the PWM output value will be the GH value.

**Note:** ECM control board is only on units with Deluxe 24V. Tracer® TU is used to adjust fan speed on units with Symbio™ 400-B controls.

**Table 114. Fan performance GEV/H006**

| External Static Pressure |       |     |       |     |       |     |       |     |       |     |       |     |
|--------------------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|                          | 0.00  |     | 0.05  |     | 0.10  |     | 0.15  |     | 0.20  |     | 0.25  |     |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM |
| 127                      | 0.014 | 401 | 0.015 | 468 | 0.017 | 533 | 0.019 | 594 | 0.021 | 653 | 0.024 | 710 |
| 133                      | 0.014 | 403 | 0.015 | 471 | 0.017 | 535 | 0.020 | 596 | 0.022 | 655 | 0.024 | 711 |
| 143                      | 0.014 | 409 | 0.016 | 475 | 0.018 | 539 | 0.020 | 600 | 0.023 | 658 | 0.025 | 714 |
| 152                      | 0.014 | 414 | 0.016 | 480 | 0.018 | 544 | 0.021 | 604 | 0.023 | 662 | 0.026 | 717 |
| 162                      | 0.014 | 421 | 0.016 | 487 | 0.019 | 550 | 0.021 | 609 | 0.024 | 667 | 0.027 | 721 |
| 171                      | 0.014 | 428 | 0.017 | 493 | 0.019 | 556 | 0.022 | 615 | 0.025 | 672 | 0.028 | 726 |
| 181                      | 0.015 | 437 | 0.017 | 501 | 0.020 | 563 | 0.023 | 622 | 0.026 | 678 | 0.030 | 732 |
| 190                      | 0.015 | 445 | 0.018 | 509 | 0.021 | 570 | 0.024 | 629 | 0.028 | 684 | 0.031 | 738 |
| 200                      | 0.016 | 455 | 0.019 | 519 | 0.022 | 579 | 0.026 | 637 | 0.029 | 692 | 0.033 | 745 |
| 209                      | 0.016 | 465 | 0.020 | 528 | 0.023 | 588 | 0.027 | 645 | 0.031 | 700 | 0.034 | 752 |
| 228                      | 0.018 | 487 | 0.022 | 549 | 0.026 | 608 | 0.030 | 664 | 0.034 | 717 | 0.038 | 769 |



**Table 114. Fan performance GEV/H006 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 0.30  |      | 0.35  |      | 0.40  |      | 0.45  |      | 0.50  |      | 0.55  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 127                      | 0.027 | 764  | 0.029 | 816  | 0.032 | 866  | 0.036 | 914  | 0.039 | 960  | 0.043 | 1005 |
| 133                      | 0.027 | 765  | 0.030 | 817  | 0.033 | 866  | 0.036 | 914  | 0.040 | 960  | 0.044 | 1004 |
| 143                      | 0.028 | 767  | 0.031 | 818  | 0.034 | 868  | 0.038 | 915  | 0.041 | 960  | 0.045 | 1004 |
| 152                      | 0.029 | 770  | 0.032 | 821  | 0.036 | 870  | 0.039 | 916  | 0.043 | 962  | 0.047 | 1005 |
| 162                      | 0.030 | 774  | 0.034 | 824  | 0.037 | 872  | 0.041 | 919  | 0.045 | 964  | 0.049 | 1007 |
| 171                      | 0.032 | 778  | 0.035 | 828  | 0.039 | 876  | 0.042 | 922  | 0.046 | 966  | 0.050 | 1009 |
| 181                      | 0.033 | 783  | 0.037 | 833  | 0.041 | 880  | 0.044 | 926  | 0.048 | 969  | 0.052 | 1012 |
| 190                      | 0.035 | 789  | 0.038 | 838  | 0.042 | 885  | 0.046 | 930  | 0.050 | 973  | 0.055 | 1015 |
| 200                      | 0.037 | 796  | 0.040 | 844  | 0.044 | 890  | 0.048 | 935  | 0.053 | 978  | 0.057 | 1019 |
| 209                      | 0.038 | 802  | 0.042 | 850  | 0.046 | 896  | 0.051 | 940  | 0.055 | 982  | 0.059 | 1023 |
| 228                      | 0.043 | 818  | 0.047 | 865  | 0.051 | 910  | 0.056 | 953  | 0.060 | 994  | 0.065 | 1034 |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 0.60  |      | 0.65  |      | 0.70  |      | 0.75  |      | 0.80  |      | 0.85  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 127                      | 0.047 | 1048 | 0.051 | 1089 | 0.055 | 1130 | 0.060 | 1170 | 0.065 | 1208 | 0.070 | 1246 |
| 133                      | 0.048 | 1047 | 0.052 | 1089 | 0.056 | 1129 | 0.061 | 1168 | 0.066 | 1207 | 0.071 | 1244 |
| 143                      | 0.049 | 1047 | 0.054 | 1088 | 0.058 | 1128 | 0.063 | 1167 | 0.067 | 1205 | 0.072 | 1242 |
| 152                      | 0.051 | 1047 | 0.055 | 1088 | 0.060 | 1127 | 0.064 | 1166 | 0.069 | 1204 | 0.074 | 1241 |
| 162                      | 0.053 | 1048 | 0.057 | 1089 | 0.062 | 1128 | 0.066 | 1166 | 0.071 | 1203 | 0.076 | 1240 |
| 171                      | 0.055 | 1050 | 0.059 | 1090 | 0.063 | 1129 | 0.068 | 1166 | 0.073 | 1203 | 0.078 | 1240 |
| 181                      | 0.057 | 1052 | 0.061 | 1092 | 0.066 | 1130 | 0.070 | 1168 | 0.075 | 1204 | 0.080 | 1240 |
| 190                      | 0.059 | 1055 | 0.063 | 1094 | 0.068 | 1132 | 0.073 | 1169 | 0.077 | 1205 | 0.082 | 1241 |
| 200                      | 0.061 | 1059 | 0.066 | 1098 | 0.070 | 1135 | 0.075 | 1172 | 0.080 | 1207 | 0.085 | 1242 |
| 209                      | 0.064 | 1063 | 0.068 | 1101 | 0.073 | 1138 | 0.078 | 1174 | 0.083 | 1210 | 0.088 | 1244 |
| 228                      | 0.069 | 1073 | 0.074 | 1110 | 0.079 | 1146 | 0.084 | 1181 | 0.088 | 1216 | 0.093 | 1250 |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 0.90  |      | 0.95  |      | 1.00  |      | 1.05  |      |       |      |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |       |      |       |      |
| 127                      | 0.075 | 1283 | 0.081 | 1320 | 0.086 | 1357 | 0.092 | 1393 |       |      |       |      |
| 133                      | 0.076 | 1281 | 0.081 | 1318 | 0.087 | 1354 | 0.093 | 1391 |       |      |       |      |
| 143                      | 0.078 | 1279 | 0.083 | 1315 | 0.089 | 1351 | 0.094 | 1387 |       |      |       |      |
| 152                      | 0.079 | 1277 | 0.085 | 1313 | 0.090 | 1349 | 0.096 | 1384 |       |      |       |      |
| 162                      | 0.081 | 1276 | 0.086 | 1311 | 0.092 | 1347 | 0.098 | 1382 |       |      |       |      |
| 171                      | 0.083 | 1275 | 0.088 | 1310 | 0.094 | 1345 | —     | —    |       |      |       |      |
| 181                      | 0.085 | 1275 | 0.091 | 1310 | 0.096 | 1345 | —     | —    |       |      |       |      |
| 190                      | 0.088 | 1276 | 0.093 | 1310 | 0.098 | 1345 | —     | —    |       |      |       |      |
| 200                      | 0.090 | 1277 | 0.095 | 1311 | —     | —    | —     | —    |       |      |       |      |
| 209                      | 0.093 | 1278 | 0.098 | 1312 | —     | —    | —     | —    |       |      |       |      |
| 228                      | —     | —    | —     | —    | —     | —    | —     | —    |       |      |       |      |



## Unit Fan Performance

Table 115. Fan performance GEV/H009

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 0.00  |      | 0.05  |      | 0.10  |      | 0.15  |      | 0.20  |      | 0.25  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 191                      | 0.015 | 446  | 0.018 | 510  | 0.021 | 571  | 0.024 | 629  | 0.028 | 685  | 0.031 | 738  |
| 200                      | 0.016 | 455  | 0.019 | 519  | 0.022 | 579  | 0.026 | 637  | 0.029 | 692  | 0.033 | 745  |
| 214                      | 0.017 | 471  | 0.020 | 533  | 0.024 | 593  | 0.028 | 650  | 0.032 | 704  | 0.035 | 756  |
| 228                      | 0.018 | 487  | 0.022 | 549  | 0.026 | 608  | 0.030 | 664  | 0.034 | 717  | 0.038 | 769  |
| 242                      | 0.020 | 505  | 0.024 | 566  | 0.028 | 624  | 0.033 | 679  | 0.037 | 732  | 0.041 | 782  |
| 257                      | 0.022 | 525  | 0.027 | 585  | 0.031 | 642  | 0.036 | 697  | 0.041 | 749  | 0.045 | 798  |
| 271                      | 0.024 | 545  | 0.029 | 604  | 0.034 | 660  | 0.039 | 714  | 0.044 | 765  | 0.049 | 814  |
| 285                      | 0.027 | 566  | 0.032 | 624  | 0.037 | 680  | 0.043 | 732  | 0.048 | 783  | 0.053 | 831  |
| 299                      | 0.029 | 588  | 0.035 | 645  | 0.041 | 700  | 0.046 | 752  | 0.052 | 801  | 0.058 | 848  |
| 314                      | 0.033 | 613  | 0.039 | 669  | 0.045 | 722  | 0.051 | 773  | 0.057 | 821  | 0.063 | 867  |
| 342                      | 0.040 | 660  | 0.047 | 714  | 0.053 | 766  | 0.060 | 815  | 0.067 | 861  | 0.073 | 906  |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 0.30  |      | 0.35  |      | 0.40  |      | 0.45  |      | 0.50  |      | 0.55  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 191                      | 0.035 | 789  | 0.039 | 838  | 0.043 | 885  | 0.046 | 930  | 0.051 | 973  | 0.055 | 1015 |
| 200                      | 0.037 | 796  | 0.040 | 844  | 0.044 | 890  | 0.048 | 935  | 0.053 | 978  | 0.057 | 1019 |
| 214                      | 0.039 | 806  | 0.043 | 854  | 0.048 | 899  | 0.052 | 943  | 0.056 | 985  | 0.061 | 1026 |
| 228                      | 0.043 | 818  | 0.047 | 865  | 0.051 | 910  | 0.056 | 953  | 0.060 | 994  | 0.065 | 1034 |
| 242                      | 0.046 | 831  | 0.050 | 877  | 0.055 | 921  | 0.060 | 963  | 0.064 | 1004 | 0.069 | 1043 |
| 257                      | 0.050 | 845  | 0.055 | 891  | 0.059 | 934  | 0.064 | 976  | 0.069 | 1016 | 0.074 | 1054 |
| 271                      | 0.054 | 860  | 0.059 | 905  | 0.064 | 947  | 0.069 | 988  | 0.074 | 1027 | 0.079 | 1065 |
| 285                      | 0.058 | 876  | 0.064 | 920  | 0.069 | 962  | 0.074 | 1002 | 0.079 | 1040 | 0.084 | 1077 |
| 299                      | 0.063 | 893  | 0.069 | 936  | 0.074 | 977  | 0.079 | 1016 | 0.085 | 1053 | 0.090 | 1089 |
| 314                      | 0.068 | 911  | 0.074 | 953  | 0.080 | 993  | 0.085 | 1032 | 0.091 | 1068 | 0.097 | 1104 |
| 342                      | 0.079 | 948  | 0.086 | 988  | 0.092 | 1026 | 0.098 | 1063 | 0.104 | 1098 | 0.110 | 1132 |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 0.60  |      | 0.65  |      | 0.70  |      | 0.75  |      | 0.80  |      | 0.85  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 191                      | 0.059 | 1055 | 0.064 | 1095 | 0.068 | 1132 | 0.073 | 1169 | 0.078 | 1206 | 0.083 | 1241 |
| 200                      | 0.061 | 1059 | 0.066 | 1098 | 0.070 | 1135 | 0.075 | 1172 | 0.080 | 1207 | 0.085 | 1242 |
| 214                      | 0.065 | 1065 | 0.070 | 1103 | 0.074 | 1140 | 0.079 | 1176 | 0.084 | 1211 | 0.089 | 1246 |
| 228                      | 0.069 | 1073 | 0.074 | 1110 | 0.079 | 1146 | 0.084 | 1181 | 0.088 | 1216 | 0.093 | 1250 |
| 242                      | 0.074 | 1081 | 0.078 | 1118 | 0.083 | 1153 | 0.088 | 1188 | 0.093 | 1222 | 0.098 | 1255 |
| 257                      | 0.079 | 1091 | 0.084 | 1127 | 0.089 | 1162 | 0.094 | 1196 | 0.099 | 1229 | 0.104 | 1261 |
| 271                      | 0.084 | 1101 | 0.089 | 1137 | 0.094 | 1171 | 0.099 | 1204 | 0.104 | 1236 | 0.109 | 1268 |
| 285                      | 0.089 | 1112 | 0.095 | 1147 | 0.100 | 1180 | 0.105 | 1213 | 0.110 | 1245 | 0.115 | 1276 |
| 299                      | 0.095 | 1124 | 0.101 | 1158 | 0.106 | 1191 | 0.111 | 1222 | 0.116 | 1254 | 0.121 | 1284 |
| 314                      | 0.102 | 1138 | 0.107 | 1170 | 0.113 | 1202 | 0.118 | 1233 | 0.123 | 1264 | 0.128 | 1293 |
| 342                      | 0.116 | 1164 | 0.121 | 1195 | 0.127 | 1226 | 0.132 | 1255 | 0.138 | 1284 | 0.143 | 1312 |

**Table 115. Fan performance GEV/H009 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|
|                          | 0.90  |      | 0.95  |      | 1.00  |      | 1.05  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 191                      | 0.088 | 1276 | 0.093 | 1310 | 0.098 | 1345 | 0.104 | 1379 |
| 200                      | 0.090 | 1277 | 0.095 | 1311 | 0.101 | 1345 | 0.106 | 1379 |
| 214                      | 0.094 | 1279 | 0.099 | 1313 | 0.105 | 1346 | 0.110 | 1380 |
| 228                      | 0.099 | 1283 | 0.104 | 1316 | 0.109 | 1349 | 0.114 | 1382 |
| 242                      | 0.103 | 1288 | 0.108 | 1320 | 0.114 | 1352 | 0.119 | 1384 |
| 257                      | 0.109 | 1293 | 0.114 | 1325 | 0.119 | 1357 | 0.124 | 1388 |
| 271                      | 0.114 | 1300 | 0.119 | 1331 | 0.124 | 1362 | 0.130 | 1393 |
| 285                      | 0.120 | 1307 | 0.125 | 1337 | 0.130 | 1367 | 0.135 | 1398 |
| 299                      | 0.126 | 1314 | 0.131 | 1344 | 0.137 | 1374 | —     | —    |
| 314                      | 0.134 | 1323 | 0.139 | 1352 | 0.144 | 1381 | —     | —    |
| 342                      | 0.148 | 1340 | 0.153 | 1368 | —     | —    | —     | —    |

**Table 116. Fan performance GEV/H012**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 0.00  |      | 0.05  |      | 0.10  |      | 0.15  |      | 0.20  |      | 0.25  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 255                      | 0.022 | 522  | 0.026 | 582  | 0.031 | 640  | 0.035 | 694  | 0.040 | 746  | 0.045 | 796  |
| 266                      | 0.023 | 538  | 0.028 | 597  | 0.033 | 654  | 0.038 | 708  | 0.043 | 759  | 0.048 | 808  |
| 285                      | 0.027 | 566  | 0.032 | 624  | 0.037 | 680  | 0.043 | 732  | 0.048 | 783  | 0.053 | 831  |
| 304                      | 0.030 | 596  | 0.036 | 653  | 0.042 | 707  | 0.048 | 759  | 0.054 | 808  | 0.059 | 854  |
| 323                      | 0.035 | 628  | 0.041 | 683  | 0.048 | 736  | 0.054 | 786  | 0.060 | 834  | 0.066 | 880  |
| 342                      | 0.040 | 660  | 0.047 | 714  | 0.053 | 766  | 0.060 | 815  | 0.067 | 861  | 0.073 | 906  |
| 361                      | 0.045 | 694  | 0.053 | 747  | 0.060 | 797  | 0.067 | 845  | 0.074 | 890  | 0.081 | 933  |
| 380                      | 0.051 | 728  | 0.059 | 780  | 0.067 | 829  | 0.075 | 875  | 0.082 | 919  | 0.090 | 961  |
| 399                      | 0.058 | 763  | 0.067 | 813  | 0.075 | 861  | 0.083 | 906  | 0.091 | 948  | 0.099 | 989  |
| 418                      | 0.065 | 799  | 0.074 | 847  | 0.083 | 893  | 0.092 | 937  | 0.100 | 978  | 0.108 | 1017 |
| 456                      | 0.082 | 869  | 0.092 | 915  | 0.102 | 958  | 0.111 | 999  | 0.121 | 1037 | 0.130 | 1073 |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 0.30  |      | 0.35  |      | 0.40  |      | 0.45  |      | 0.50  |      | 0.55  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 255                      | 0.049 | 843  | 0.054 | 889  | 0.059 | 932  | 0.064 | 974  | 0.068 | 1014 | 0.073 | 1052 |
| 266                      | 0.053 | 855  | 0.057 | 900  | 0.062 | 943  | 0.067 | 984  | 0.072 | 1023 | 0.077 | 1061 |
| 285                      | 0.058 | 876  | 0.064 | 920  | 0.069 | 962  | 0.074 | 1002 | 0.079 | 1040 | 0.084 | 1077 |
| 304                      | 0.065 | 899  | 0.070 | 941  | 0.076 | 982  | 0.081 | 1021 | 0.087 | 1058 | 0.092 | 1094 |
| 323                      | 0.072 | 923  | 0.078 | 964  | 0.084 | 1004 | 0.089 | 1041 | 0.095 | 1078 | 0.101 | 1112 |
| 342                      | 0.079 | 948  | 0.086 | 988  | 0.092 | 1026 | 0.098 | 1063 | 0.104 | 1098 | 0.110 | 1132 |
| 361                      | 0.088 | 974  | 0.094 | 1013 | 0.101 | 1050 | 0.107 | 1085 | 0.113 | 1119 | 0.120 | 1151 |
| 380                      | 0.097 | 1000 | 0.104 | 1038 | 0.110 | 1074 | 0.117 | 1108 | 0.124 | 1140 | 0.130 | 1172 |
| 399                      | 0.106 | 1027 | 0.114 | 1063 | 0.121 | 1098 | 0.128 | 1131 | 0.135 | 1162 | 0.141 | 1192 |



## Unit Fan Performance

**Table 116. Fan performance GEV/H012 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 0.30  |      | 0.35  |      | 0.40  |      | 0.45  |      | 0.50  |      | 0.55  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 418                      | 0.116 | 1054 | 0.124 | 1089 | 0.132 | 1122 | 0.139 | 1154 | 0.146 | 1184 | 0.153 | 1213 |
| 456                      | 0.139 | 1108 | 0.147 | 1140 | 0.156 | 1170 | 0.164 | 1199 | 0.171 | 1227 | 0.179 | 1253 |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 0.60  |      | 0.65  |      | 0.70  |      | 0.75  |      | 0.80  |      | 0.85  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 255                      | 0.078 | 1090 | 0.083 | 1126 | 0.088 | 1161 | 0.093 | 1195 | 0.098 | 1228 | 0.103 | 1260 |
| 266                      | 0.082 | 1098 | 0.087 | 1133 | 0.092 | 1167 | 0.097 | 1201 | 0.102 | 1234 | 0.107 | 1266 |
| 285                      | 0.089 | 1112 | 0.095 | 1147 | 0.100 | 1180 | 0.105 | 1213 | 0.110 | 1245 | 0.115 | 1276 |
| 304                      | 0.097 | 1129 | 0.103 | 1162 | 0.108 | 1194 | 0.113 | 1226 | 0.118 | 1257 | 0.124 | 1287 |
| 323                      | 0.106 | 1146 | 0.112 | 1178 | 0.117 | 1210 | 0.122 | 1240 | 0.128 | 1270 | 0.133 | 1299 |
| 342                      | 0.116 | 1164 | 0.121 | 1195 | 0.127 | 1226 | 0.132 | 1255 | 0.138 | 1284 | 0.143 | 1312 |
| 361                      | 0.126 | 1183 | 0.131 | 1213 | 0.137 | 1242 | 0.143 | 1270 | 0.148 | 1298 | 0.154 | 1325 |
| 380                      | 0.136 | 1202 | 0.142 | 1231 | 0.148 | 1259 | 0.154 | 1286 | 0.160 | 1313 | 0.165 | 1339 |
| 399                      | 0.148 | 1221 | 0.154 | 1249 | 0.160 | 1276 | 0.166 | 1302 | 0.172 | 1328 | 0.177 | 1353 |
| 418                      | 0.160 | 1241 | 0.166 | 1267 | 0.173 | 1293 | 0.179 | 1318 | 0.185 | 1342 | 0.190 | 1366 |
| 456                      | 0.186 | 1278 | 0.193 | 1303 | 0.200 | 1326 | 0.206 | 1348 | 0.213 | 1370 | 0.219 | 1392 |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 0.90  |      | 0.95  |      | 1.00  |      | 1.05  |      |       |      |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |       |      |       |      |
| 255                      | 0.108 | 1293 | 0.113 | 1324 | 0.118 | 1356 | 0.123 | 1388 |       |      |       |      |
| 266                      | 0.112 | 1297 | 0.117 | 1329 | 0.122 | 1360 | 0.128 | 1391 |       |      |       |      |
| 285                      | 0.120 | 1307 | 0.125 | 1337 | 0.130 | 1367 | 0.135 | 1398 |       |      |       |      |
| 304                      | 0.129 | 1317 | 0.134 | 1346 | 0.139 | 1376 | —     | —    |       |      |       |      |
| 323                      | 0.138 | 1328 | 0.143 | 1357 | 0.148 | 1385 | —     | —    |       |      |       |      |
| 342                      | 0.148 | 1340 | 0.153 | 1368 | 0.158 | 1395 | —     | —    |       |      |       |      |
| 361                      | 0.159 | 1352 | 0.164 | 1379 | —     | —    | —     | —    |       |      |       |      |
| 380                      | 0.170 | 1365 | 0.176 | 1391 | —     | —    | —     | —    |       |      |       |      |
| 399                      | 0.183 | 1377 | —     | —    | —     | —    | —     | —    |       |      |       |      |
| 418                      | 0.196 | 1390 | —     | —    | —     | —    | —     | —    |       |      |       |      |
| 456                      | —     | —    | —     | —    | —     | —    | —     | —    |       |      |       |      |

**Table 117. Fan performance GEV/H015**

| External Static Pressure |       |     |       |     |       |     |       |     |       |     |       |     |       |     |
|--------------------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|                          | 0.00  |     | 0.05  |     | 0.10  |     | 0.15  |     | 0.20  |     | 0.25  |     | 0.30  |     |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM |
| 318                      | 0.016 | 421 | 0.020 | 478 | 0.023 | 533 | 0.027 | 586 | 0.032 | 636 | 0.036 | 685 | 0.041 | 732 |
| 333                      | 0.018 | 429 | 0.021 | 486 | 0.025 | 540 | 0.029 | 592 | 0.033 | 643 | 0.038 | 691 | 0.043 | 737 |
| 356                      | 0.020 | 443 | 0.023 | 498 | 0.027 | 552 | 0.031 | 603 | 0.036 | 653 | 0.041 | 700 | 0.046 | 746 |
| 380                      | 0.022 | 457 | 0.026 | 512 | 0.030 | 564 | 0.034 | 615 | 0.039 | 664 | 0.044 | 710 | 0.049 | 755 |

**Table 117. Fan performance GEV/H015 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 0.00  |      | 0.05  |      | 0.10  |      | 0.15  |      | 0.20  |      | 0.25  |      | 0.30  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 404                      | 0.025 | 472  | 0.029 | 526  | 0.033 | 577  | 0.037 | 627  | 0.042 | 675  | 0.048 | 721  | 0.053 | 765  |
| 428                      | 0.028 | 487  | 0.032 | 540  | 0.036 | 591  | 0.041 | 640  | 0.046 | 687  | 0.051 | 732  | 0.057 | 775  |
| 451                      | 0.032 | 502  | 0.036 | 554  | 0.040 | 604  | 0.045 | 652  | 0.050 | 698  | 0.055 | 743  | 0.061 | 786  |
| 475                      | 0.036 | 518  | 0.040 | 569  | 0.044 | 618  | 0.049 | 665  | 0.054 | 711  | 0.060 | 754  | 0.066 | 797  |
| 499                      | 0.040 | 535  | 0.044 | 585  | 0.049 | 633  | 0.054 | 679  | 0.059 | 723  | 0.065 | 766  | 0.071 | 808  |
| 523                      | 0.045 | 551  | 0.049 | 600  | 0.054 | 647  | 0.059 | 693  | 0.064 | 737  | 0.070 | 779  | 0.077 | 819  |
| 570                      | 0.056 | 585  | 0.060 | 632  | 0.065 | 677  | 0.070 | 721  | 0.076 | 763  | 0.082 | 804  | 0.089 | 843  |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 0.35  |      | 0.40  |      | 0.45  |      | 0.50  |      | 0.55  |      | 0.60  |      | 0.65  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 318                      | 0.046 | 777  | 0.052 | 820  | 0.057 | 861  | 0.063 | 901  | 0.069 | 939  | 0.075 | 975  | 0.081 | 1010 |
| 333                      | 0.048 | 782  | 0.054 | 824  | 0.060 | 865  | 0.066 | 905  | 0.072 | 943  | 0.078 | 979  | 0.084 | 1014 |
| 356                      | 0.052 | 790  | 0.057 | 832  | 0.063 | 872  | 0.069 | 911  | 0.076 | 949  | 0.082 | 984  | 0.089 | 1019 |
| 380                      | 0.055 | 799  | 0.061 | 840  | 0.067 | 880  | 0.074 | 918  | 0.080 | 955  | 0.087 | 991  | 0.094 | 1025 |
| 404                      | 0.059 | 808  | 0.065 | 849  | 0.072 | 888  | 0.078 | 926  | 0.085 | 962  | 0.092 | 997  | 0.099 | 1031 |
| 428                      | 0.063 | 817  | 0.070 | 858  | 0.076 | 896  | 0.083 | 934  | 0.090 | 969  | 0.097 | 1004 | 0.105 | 1037 |
| 451                      | 0.068 | 827  | 0.074 | 866  | 0.081 | 905  | 0.088 | 941  | 0.095 | 977  | 0.103 | 1011 | 0.110 | 1044 |
| 475                      | 0.073 | 837  | 0.079 | 876  | 0.086 | 914  | 0.094 | 950  | 0.101 | 985  | 0.109 | 1019 | 0.116 | 1051 |
| 499                      | 0.078 | 848  | 0.085 | 886  | 0.092 | 923  | 0.099 | 959  | 0.107 | 993  | 0.115 | 1026 | 0.123 | 1059 |
| 523                      | 0.083 | 859  | 0.091 | 896  | 0.098 | 933  | 0.105 | 968  | 0.113 | 1002 | 0.121 | 1035 | 0.130 | 1066 |
| 570                      | 0.096 | 881  | 0.103 | 917  | 0.111 | 953  | 0.119 | 987  | 0.127 | 1020 | 0.135 | 1052 | 0.144 | 1083 |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 0.70  |      | 0.75  |      | 0.80  |      | 0.85  |      | 0.90  |      | 0.95  |      | 1.00  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 318                      | 0.087 | 1044 | 0.093 | 1076 | 0.100 | 1107 | 0.106 | 1137 | 0.112 | 1165 | 0.118 | 1193 | 0.123 | 1219 |
| 333                      | 0.090 | 1047 | 0.097 | 1079 | 0.103 | 1110 | 0.109 | 1139 | 0.116 | 1168 | 0.122 | 1195 | 0.128 | 1221 |
| 356                      | 0.095 | 1052 | 0.102 | 1084 | 0.109 | 1114 | 0.115 | 1144 | 0.122 | 1172 | 0.128 | 1199 | 0.135 | 1225 |
| 380                      | 0.101 | 1057 | 0.108 | 1089 | 0.114 | 1119 | 0.121 | 1148 | 0.128 | 1176 | 0.135 | 1203 | 0.142 | 1230 |
| 404                      | 0.106 | 1063 | 0.113 | 1094 | 0.121 | 1124 | 0.128 | 1153 | 0.135 | 1181 | 0.142 | 1208 | 0.149 | 1234 |
| 428                      | 0.112 | 1069 | 0.120 | 1100 | 0.127 | 1130 | 0.135 | 1159 | 0.142 | 1186 | 0.150 | 1213 | 0.157 | 1239 |
| 451                      | 0.118 | 1076 | 0.126 | 1106 | 0.134 | 1136 | 0.141 | 1164 | 0.149 | 1192 | 0.157 | 1219 | 0.165 | 1245 |
| 475                      | 0.124 | 1082 | 0.132 | 1113 | 0.141 | 1142 | 0.149 | 1170 | 0.157 | 1198 | 0.165 | 1224 | 0.173 | 1250 |
| 499                      | 0.131 | 1090 | 0.139 | 1120 | 0.148 | 1149 | 0.156 | 1177 | 0.165 | 1204 | 0.173 | 1231 | 0.182 | 1256 |
| 523                      | 0.138 | 1097 | 0.147 | 1127 | 0.155 | 1156 | 0.164 | 1183 | 0.173 | 1211 | 0.182 | 1237 | 0.190 | 1263 |
| 570                      | 0.153 | 1113 | 0.162 | 1142 | 0.171 | 1170 | 0.180 | 1197 | 0.190 | 1224 | 0.199 | 1250 | 0.208 | 1276 |



## Unit Fan Performance

**Table 117. Fan performance GEV/H015 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 1.05  |      | 1.10  |      | 1.15  |      | 1.20  |      | 1.25  |      | 1.30  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 318                      | 0.129 | 1244 | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    |
| 333                      | 0.134 | 1247 | 0.139 | 1271 | 0.145 | 1295 | 0.150 | 1317 | 0.155 | 1339 | 0.160 | 1361 |
| 356                      | 0.141 | 1250 | 0.147 | 1275 | 0.153 | 1298 | 0.158 | 1321 | 0.164 | 1344 | —     | —    |
| 380                      | 0.149 | 1255 | 0.155 | 1279 | 0.161 | 1303 | 0.167 | 1326 | 0.173 | 1348 | —     | —    |
| 404                      | 0.156 | 1260 | 0.163 | 1284 | 0.170 | 1308 | 0.176 | 1331 | 0.183 | 1353 | —     | —    |
| 428                      | 0.165 | 1265 | 0.172 | 1289 | 0.179 | 1313 | 0.186 | 1336 | —     | —    | —     | —    |
| 451                      | 0.173 | 1270 | 0.180 | 1294 | 0.188 | 1318 | 0.195 | 1342 | —     | —    | —     | —    |
| 475                      | 0.181 | 1276 | 0.189 | 1300 | 0.197 | 1324 | —     | —    | —     | —    | —     | —    |
| 499                      | 0.190 | 1282 | 0.198 | 1306 | 0.206 | 1330 | —     | —    | —     | —    | —     | —    |
| 523                      | 0.199 | 1288 | 0.208 | 1313 | —     | —    | —     | —    | —     | —    | —     | —    |
| 570                      | 0.217 | 1301 | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    |

**Table 118. Fan performance GEV/H018**

| External Static Pressure |       |     |       |     |       |     |       |     |       |      |       |      |       |      |
|--------------------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|------|-------|------|-------|------|
|                          | 0.00  |     | 0.05  |     | 0.10  |     | 0.15  |     | 0.20  |      | 0.25  |      | 0.30  |      |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 382                      | 0.022 | 459 | 0.026 | 513 | 0.030 | 566 | 0.034 | 616 | 0.039 | 665  | 0.044 | 711  | 0.050 | 756  |
| 399                      | 0.024 | 469 | 0.028 | 523 | 0.032 | 575 | 0.037 | 625 | 0.042 | 673  | 0.047 | 719  | 0.052 | 763  |
| 428                      | 0.028 | 487 | 0.032 | 540 | 0.036 | 591 | 0.041 | 640 | 0.046 | 687  | 0.051 | 732  | 0.057 | 775  |
| 456                      | 0.033 | 506 | 0.036 | 557 | 0.041 | 607 | 0.046 | 655 | 0.051 | 701  | 0.056 | 745  | 0.062 | 788  |
| 485                      | 0.038 | 525 | 0.042 | 576 | 0.046 | 624 | 0.051 | 671 | 0.056 | 716  | 0.062 | 759  | 0.068 | 801  |
| 513                      | 0.043 | 544 | 0.047 | 594 | 0.052 | 641 | 0.057 | 687 | 0.062 | 731  | 0.068 | 774  | 0.074 | 815  |
| 542                      | 0.049 | 565 | 0.053 | 613 | 0.058 | 659 | 0.063 | 704 | 0.069 | 747  | 0.075 | 789  | 0.081 | 829  |
| 570                      | 0.056 | 585 | 0.060 | 632 | 0.065 | 677 | 0.070 | 721 | 0.076 | 763  | 0.082 | 804  | 0.089 | 843  |
| 599                      | 0.063 | 606 | 0.068 | 652 | 0.072 | 696 | 0.078 | 739 | 0.084 | 780  | 0.090 | 820  | 0.097 | 858  |
| 627                      | 0.071 | 627 | 0.076 | 672 | 0.080 | 715 | 0.086 | 757 | 0.092 | 797  | 0.098 | 836  | 0.105 | 873  |
| 684                      | 0.089 | 671 | 0.094 | 713 | 0.099 | 754 | 0.104 | 793 | 0.110 | 832  | 0.117 | 869  | 0.124 | 904  |
| External Static Pressure |       |     |       |     |       |     |       |     |       |      |       |      |       |      |
|                          | 0.35  |     | 0.40  |     | 0.45  |     | 0.50  |     | 0.55  |      | 0.60  |      | 0.65  |      |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 382                      | 0.055 | 799 | 0.061 | 841 | 0.068 | 881 | 0.074 | 919 | 0.081 | 956  | 0.087 | 991  | 0.094 | 1025 |
| 399                      | 0.058 | 806 | 0.064 | 847 | 0.071 | 886 | 0.077 | 924 | 0.084 | 961  | 0.091 | 996  | 0.098 | 1029 |
| 428                      | 0.063 | 817 | 0.070 | 858 | 0.076 | 896 | 0.083 | 934 | 0.090 | 969  | 0.097 | 1004 | 0.105 | 1037 |
| 456                      | 0.069 | 829 | 0.075 | 868 | 0.082 | 907 | 0.089 | 943 | 0.096 | 978  | 0.104 | 1013 | 0.112 | 1045 |
| 485                      | 0.075 | 841 | 0.081 | 880 | 0.089 | 918 | 0.096 | 954 | 0.103 | 988  | 0.111 | 1022 | 0.119 | 1054 |
| 513                      | 0.081 | 854 | 0.088 | 892 | 0.095 | 929 | 0.103 | 964 | 0.111 | 998  | 0.119 | 1031 | 0.127 | 1063 |
| 542                      | 0.088 | 867 | 0.095 | 905 | 0.103 | 941 | 0.111 | 975 | 0.119 | 1009 | 0.127 | 1041 | 0.135 | 1073 |
| 570                      | 0.096 | 881 | 0.103 | 917 | 0.111 | 953 | 0.119 | 987 | 0.127 | 1020 | 0.135 | 1052 | 0.144 | 1083 |
| 599                      | 0.104 | 895 | 0.111 | 931 | 0.119 | 965 | 0.127 | 999 | 0.136 | 1031 | 0.145 | 1063 | 0.154 | 1093 |

**Table 118. Fan performance GEV/H018 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 0.35  |      | 0.40  |      | 0.45  |      | 0.50  |      | 0.55  |      | 0.60  |      | 0.65  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 627                      | 0.112 | 909  | 0.120 | 944  | 0.128 | 978  | 0.136 | 1011 | 0.145 | 1043 | 0.154 | 1074 | 0.163 | 1104 |
| 684                      | 0.132 | 939  | 0.140 | 972  | 0.148 | 1005 | 0.157 | 1036 | 0.166 | 1067 | 0.175 | 1097 | 0.185 | 1126 |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 0.70  |      | 0.75  |      | 0.80  |      | 0.85  |      | 0.90  |      | 0.95  |      | 1.00  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 382                      | 0.101 | 1058 | 0.108 | 1089 | 0.115 | 1119 | 0.122 | 1149 | 0.129 | 1177 | 0.136 | 1204 | 0.143 | 1230 |
| 399                      | 0.105 | 1062 | 0.112 | 1093 | 0.119 | 1123 | 0.127 | 1152 | 0.134 | 1180 | 0.141 | 1207 | 0.148 | 1233 |
| 428                      | 0.112 | 1069 | 0.120 | 1100 | 0.127 | 1130 | 0.135 | 1159 | 0.142 | 1186 | 0.150 | 1213 | 0.157 | 1239 |
| 456                      | 0.119 | 1077 | 0.127 | 1107 | 0.135 | 1137 | 0.143 | 1165 | 0.151 | 1193 | 0.159 | 1220 | 0.167 | 1246 |
| 485                      | 0.127 | 1085 | 0.135 | 1116 | 0.143 | 1145 | 0.152 | 1173 | 0.160 | 1200 | 0.168 | 1227 | 0.177 | 1253 |
| 513                      | 0.135 | 1094 | 0.144 | 1124 | 0.152 | 1153 | 0.161 | 1181 | 0.169 | 1208 | 0.178 | 1234 | 0.187 | 1260 |
| 542                      | 0.144 | 1103 | 0.153 | 1133 | 0.162 | 1161 | 0.170 | 1189 | 0.179 | 1216 | 0.188 | 1242 | 0.197 | 1268 |
| 570                      | 0.153 | 1113 | 0.162 | 1142 | 0.171 | 1170 | 0.180 | 1197 | 0.190 | 1224 | 0.199 | 1250 | 0.208 | 1276 |
| 599                      | 0.163 | 1123 | 0.172 | 1151 | 0.181 | 1179 | 0.191 | 1207 | 0.200 | 1233 | 0.210 | 1259 | 0.220 | 1285 |
| 627                      | 0.173 | 1133 | 0.182 | 1161 | 0.192 | 1189 | 0.202 | 1216 | 0.212 | 1242 | 0.221 | 1268 | 0.231 | 1293 |
| 684                      | 0.194 | 1154 | 0.204 | 1182 | 0.215 | 1209 | 0.225 | 1235 | 0.235 | 1261 | 0.246 | 1287 | 0.257 | 1312 |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 1.05  |      | 1.10  |      | 1.15  |      | 1.20  |      | 1.25  |      | 1.30  |      | 1.35  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 382                      | 0.149 | 1255 | 0.156 | 1280 | 0.162 | 1303 | 0.168 | 1326 | 0.174 | 1349 | 0.180 | 1371 | 0.185 | 1392 |
| 399                      | 0.155 | 1259 | 0.162 | 1283 | 0.168 | 1307 | 0.175 | 1330 | 0.181 | 1352 | 0.187 | 1374 | —     | —    |
| 428                      | 0.165 | 1265 | 0.172 | 1289 | 0.179 | 1313 | 0.186 | 1336 | 0.192 | 1359 | 0.199 | 1381 | —     | —    |
| 456                      | 0.174 | 1271 | 0.182 | 1296 | 0.189 | 1319 | 0.197 | 1343 | 0.204 | 1366 | 0.211 | 1388 | —     | —    |
| 485                      | 0.185 | 1278 | 0.193 | 1303 | 0.201 | 1327 | 0.208 | 1350 | 0.216 | 1373 | —     | —    | —     | —    |
| 513                      | 0.195 | 1285 | 0.204 | 1310 | 0.212 | 1334 | 0.220 | 1358 | 0.228 | 1381 | —     | —    | —     | —    |
| 542                      | 0.206 | 1293 | 0.215 | 1318 | 0.224 | 1342 | 0.233 | 1366 | —     | —    | —     | —    | —     | —    |
| 570                      | 0.217 | 1301 | 0.227 | 1326 | 0.236 | 1350 | —     | —    | —     | —    | —     | —    | —     | —    |
| 599                      | 0.229 | 1310 | 0.239 | 1334 | 0.249 | 1359 | —     | —    | —     | —    | —     | —    | —     | —    |
| 627                      | 0.241 | 1318 | 0.251 | 1343 | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    |
| 684                      | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    |

**Table 119. Fan performance GEV/H024**

| External Static Pressure |       |     |       |     |       |     |       |     |       |     |       |     |       |     |
|--------------------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|                          | 0.00  |     | 0.05  |     | 0.10  |     | 0.15  |     | 0.20  |     | 0.25  |     | 0.30  |     |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM |
| 509                      | 0.048 | 460 | 0.051 | 499 | 0.054 | 537 | 0.058 | 574 | 0.061 | 610 | 0.066 | 646 | 0.070 | 681 |
| 532                      | 0.048 | 468 | 0.051 | 506 | 0.055 | 544 | 0.059 | 581 | 0.063 | 617 | 0.067 | 652 | 0.073 | 687 |
| 570                      | 0.049 | 482 | 0.053 | 520 | 0.057 | 556 | 0.061 | 593 | 0.066 | 628 | 0.071 | 663 | 0.077 | 698 |
| 608                      | 0.051 | 496 | 0.055 | 533 | 0.060 | 570 | 0.064 | 606 | 0.070 | 641 | 0.075 | 675 | 0.082 | 709 |



## Unit Fan Performance

Table 119. Fan performance GEV/H024 (continued)

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 0.00  |      | 0.05  |      | 0.10  |      | 0.15  |      | 0.20  |      | 0.25  |      | 0.30  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 646                      | 0.054 | 512  | 0.059 | 548  | 0.063 | 584  | 0.069 | 619  | 0.075 | 654  | 0.081 | 688  | 0.087 | 721  |
| 684                      | 0.058 | 528  | 0.063 | 563  | 0.068 | 599  | 0.074 | 633  | 0.081 | 667  | 0.087 | 701  | 0.094 | 734  |
| 722                      | 0.063 | 544  | 0.069 | 579  | 0.075 | 614  | 0.081 | 648  | 0.088 | 682  | 0.095 | 714  | 0.102 | 747  |
| 760                      | 0.070 | 562  | 0.076 | 596  | 0.082 | 630  | 0.089 | 664  | 0.096 | 697  | 0.103 | 729  | 0.111 | 761  |
| 798                      | 0.077 | 580  | 0.084 | 614  | 0.090 | 647  | 0.097 | 680  | 0.105 | 712  | 0.113 | 744  | 0.121 | 775  |
| 836                      | 0.086 | 598  | 0.093 | 632  | 0.100 | 664  | 0.107 | 697  | 0.115 | 728  | 0.124 | 759  | 0.132 | 790  |
| 912                      | 0.108 | 638  | 0.115 | 670  | 0.123 | 701  | 0.131 | 732  | 0.140 | 762  | 0.149 | 792  | 0.158 | 821  |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 0.35  |      | 0.40  |      | 0.45  |      | 0.50  |      | 0.55  |      | 0.60  |      | 0.65  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 509                      | 0.076 | 715  | 0.081 | 749  | 0.087 | 782  | 0.093 | 814  | 0.099 | 845  | 0.106 | 876  | 0.113 | 907  |
| 532                      | 0.078 | 721  | 0.084 | 754  | 0.090 | 787  | 0.096 | 819  | 0.103 | 850  | 0.110 | 881  | 0.118 | 911  |
| 570                      | 0.083 | 731  | 0.089 | 764  | 0.095 | 797  | 0.102 | 828  | 0.110 | 859  | 0.117 | 890  | 0.125 | 919  |
| 608                      | 0.088 | 742  | 0.095 | 775  | 0.102 | 807  | 0.109 | 838  | 0.117 | 869  | 0.125 | 899  | 0.134 | 928  |
| 646                      | 0.094 | 754  | 0.102 | 786  | 0.109 | 817  | 0.117 | 848  | 0.125 | 878  | 0.134 | 908  | 0.143 | 937  |
| 684                      | 0.102 | 766  | 0.109 | 797  | 0.117 | 828  | 0.126 | 859  | 0.134 | 889  | 0.143 | 918  | 0.153 | 947  |
| 722                      | 0.110 | 778  | 0.118 | 810  | 0.127 | 840  | 0.135 | 870  | 0.144 | 900  | 0.154 | 928  | 0.163 | 957  |
| 760                      | 0.119 | 792  | 0.128 | 822  | 0.137 | 852  | 0.146 | 882  | 0.155 | 911  | 0.165 | 939  | 0.175 | 967  |
| 798                      | 0.130 | 805  | 0.139 | 836  | 0.148 | 865  | 0.157 | 894  | 0.167 | 923  | 0.177 | 951  | 0.188 | 978  |
| 836                      | 0.141 | 820  | 0.150 | 849  | 0.160 | 878  | 0.170 | 907  | 0.180 | 935  | 0.190 | 962  | 0.201 | 989  |
| 912                      | 0.167 | 850  | 0.177 | 878  | 0.188 | 906  | 0.198 | 934  | 0.209 | 961  | 0.220 | 987  | 0.231 | 1013 |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 0.70  |      | 0.75  |      | 0.80  |      | 0.85  |      | 0.90  |      | 0.95  |      | 1.00  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 509                      | 0.121 | 936  | 0.128 | 965  | 0.136 | 993  | 0.144 | 1021 | 0.152 | 1048 | 0.161 | 1074 | 0.169 | 1100 |
| 532                      | 0.125 | 941  | 0.133 | 969  | 0.141 | 998  | 0.149 | 1025 | 0.158 | 1052 | 0.167 | 1078 | 0.175 | 1104 |
| 570                      | 0.133 | 948  | 0.142 | 977  | 0.150 | 1005 | 0.159 | 1032 | 0.168 | 1059 | 0.177 | 1085 | 0.186 | 1110 |
| 608                      | 0.142 | 957  | 0.151 | 985  | 0.160 | 1013 | 0.169 | 1040 | 0.179 | 1066 | 0.188 | 1092 | 0.198 | 1117 |
| 646                      | 0.152 | 966  | 0.161 | 993  | 0.170 | 1021 | 0.180 | 1048 | 0.190 | 1074 | 0.200 | 1099 | 0.210 | 1124 |
| 684                      | 0.162 | 975  | 0.172 | 1002 | 0.182 | 1029 | 0.192 | 1056 | 0.202 | 1082 | 0.212 | 1107 | 0.223 | 1132 |
| 722                      | 0.173 | 984  | 0.183 | 1012 | 0.193 | 1038 | 0.204 | 1065 | 0.215 | 1090 | 0.225 | 1115 | 0.236 | 1140 |
| 760                      | 0.185 | 995  | 0.196 | 1021 | 0.206 | 1048 | 0.217 | 1074 | 0.228 | 1099 | 0.239 | 1124 | 0.250 | 1148 |
| 798                      | 0.198 | 1005 | 0.209 | 1032 | 0.220 | 1058 | 0.231 | 1083 | 0.242 | 1108 | 0.254 | 1132 | 0.265 | 1157 |
| 836                      | 0.212 | 1016 | 0.223 | 1042 | 0.234 | 1068 | 0.246 | 1093 | 0.257 | 1117 | 0.269 | 1142 | 0.281 | 1165 |
| 912                      | 0.242 | 1039 | 0.254 | 1064 | 0.266 | 1089 | 0.278 | 1113 | 0.290 | 1137 | 0.302 | 1161 | 0.315 | 1184 |



**Table 119. Fan performance GEV/H024 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|
|                          | 1.05  |      | 1.10  |      | 1.15  |      | 1.20  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 509                      | 0.178 | 1125 | 0.187 | 1150 | 0.195 | 1174 | 0.205 | 1197 |
| 532                      | 0.184 | 1129 | 0.194 | 1153 | 0.203 | 1177 | 0.212 | 1200 |
| 570                      | 0.196 | 1135 | 0.205 | 1160 | 0.215 | 1183 | —     | —    |
| 608                      | 0.208 | 1142 | 0.218 | 1166 | 0.228 | 1190 | —     | —    |
| 646                      | 0.220 | 1149 | 0.231 | 1173 | 0.241 | 1196 | —     | —    |
| 684                      | 0.233 | 1156 | 0.244 | 1180 | —     | —    | —     | —    |
| 722                      | 0.247 | 1164 | 0.258 | 1188 | —     | —    | —     | —    |
| 760                      | 0.262 | 1172 | 0.273 | 1195 | —     | —    | —     | —    |
| 798                      | 0.277 | 1180 | —     | —    | —     | —    | —     | —    |
| 836                      | 0.293 | 1189 | —     | —    | —     | —    | —     | —    |
| 912                      | —     | —    | —     | —    | —     | —    | —     | —    |

**Table 120. Fan performance GEV/H030**

| External Static Pressure |       |     |       |     |       |     |       |     |       |     |       |      |       |      |
|--------------------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|------|-------|------|
|                          | 0.00  |     | 0.05  |     | 0.10  |     | 0.15  |     | 0.20  |     | 0.25  |      | 0.30  |      |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  |
| 637                      | 0.053 | 508 | 0.058 | 545 | 0.062 | 581 | 0.068 | 616 | 0.073 | 651 | 0.079 | 685  | 0.086 | 718  |
| 665                      | 0.056 | 519 | 0.061 | 556 | 0.066 | 591 | 0.071 | 626 | 0.077 | 660 | 0.084 | 694  | 0.091 | 727  |
| 713                      | 0.062 | 540 | 0.067 | 576 | 0.073 | 610 | 0.079 | 645 | 0.086 | 678 | 0.093 | 711  | 0.100 | 744  |
| 760                      | 0.070 | 562 | 0.076 | 596 | 0.082 | 630 | 0.089 | 664 | 0.096 | 697 | 0.103 | 729  | 0.111 | 761  |
| 808                      | 0.080 | 585 | 0.086 | 618 | 0.093 | 651 | 0.100 | 684 | 0.108 | 716 | 0.116 | 748  | 0.124 | 779  |
| 855                      | 0.091 | 608 | 0.098 | 641 | 0.105 | 673 | 0.113 | 705 | 0.121 | 736 | 0.129 | 767  | 0.138 | 797  |
| 903                      | 0.105 | 633 | 0.112 | 665 | 0.120 | 697 | 0.128 | 728 | 0.137 | 758 | 0.145 | 788  | 0.155 | 817  |
| 950                      | 0.121 | 659 | 0.128 | 690 | 0.136 | 720 | 0.145 | 750 | 0.154 | 780 | 0.163 | 809  | 0.173 | 838  |
| 998                      | 0.139 | 686 | 0.147 | 716 | 0.156 | 745 | 0.164 | 775 | 0.173 | 803 | 0.183 | 832  | 0.193 | 859  |
| 1045                     | 0.159 | 713 | 0.168 | 742 | 0.176 | 771 | 0.185 | 799 | 0.195 | 827 | 0.205 | 854  | 0.215 | 881  |
| 1140                     | 0.207 | 771 | 0.216 | 798 | 0.225 | 825 | 0.235 | 851 | 0.245 | 877 | 0.255 | 903  | 0.266 | 928  |
| External Static Pressure |       |     |       |     |       |     |       |     |       |     |       |      |       |      |
|                          | 0.35  |     | 0.40  |     | 0.45  |     | 0.50  |     | 0.55  |     | 0.60  |      | 0.65  |      |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  |
| 637                      | 0.093 | 751 | 0.100 | 783 | 0.107 | 815 | 0.115 | 846 | 0.123 | 876 | 0.132 | 906  | 0.140 | 935  |
| 665                      | 0.098 | 760 | 0.105 | 791 | 0.113 | 823 | 0.121 | 853 | 0.130 | 883 | 0.139 | 913  | 0.148 | 942  |
| 713                      | 0.108 | 775 | 0.116 | 807 | 0.124 | 837 | 0.133 | 867 | 0.142 | 897 | 0.151 | 926  | 0.161 | 954  |
| 760                      | 0.119 | 792 | 0.128 | 822 | 0.137 | 852 | 0.146 | 882 | 0.155 | 911 | 0.165 | 939  | 0.175 | 967  |
| 808                      | 0.133 | 809 | 0.142 | 839 | 0.151 | 869 | 0.161 | 897 | 0.170 | 926 | 0.181 | 954  | 0.191 | 981  |
| 855                      | 0.147 | 827 | 0.157 | 856 | 0.166 | 885 | 0.176 | 913 | 0.187 | 941 | 0.197 | 968  | 0.208 | 995  |
| 903                      | 0.164 | 846 | 0.174 | 875 | 0.184 | 903 | 0.194 | 931 | 0.205 | 958 | 0.216 | 984  | 0.227 | 1010 |
| 950                      | 0.182 | 866 | 0.193 | 894 | 0.203 | 921 | 0.214 | 948 | 0.225 | 974 | 0.236 | 1000 | 0.248 | 1026 |
| 998                      | 0.203 | 887 | 0.214 | 914 | 0.224 | 940 | 0.235 | 966 | 0.247 | 992 | 0.258 | 1017 | 0.270 | 1042 |



## Unit Fan Performance

**Table 120. Fan performance GEV/H030 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 0.35  |      | 0.40  |      | 0.45  |      | 0.50  |      | 0.55  |      | 0.60  |      | 0.65  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 1045                     | 0.225 | 908  | 0.236 | 934  | 0.247 | 960  | 0.258 | 985  | 0.270 | 1010 | 0.282 | 1035 | 0.294 | 1059 |
| 1140                     | 0.276 | 953  | 0.288 | 977  | 0.299 | 1001 | 0.311 | 1025 | 0.323 | 1048 | 0.335 | 1071 | 0.347 | 1094 |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 0.70  |      | 0.75  |      | 0.80  |      | 0.85  |      | 0.90  |      | 0.95  |      | 1.00  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 637                      | 0.149 | 963  | 0.158 | 991  | 0.168 | 1019 | 0.177 | 1046 | 0.187 | 1072 | 0.197 | 1098 | 0.207 | 1123 |
| 665                      | 0.157 | 970  | 0.166 | 998  | 0.176 | 1025 | 0.186 | 1052 | 0.196 | 1078 | 0.206 | 1103 | 0.216 | 1128 |
| 713                      | 0.170 | 982  | 0.180 | 1009 | 0.191 | 1036 | 0.201 | 1062 | 0.211 | 1088 | 0.222 | 1113 | 0.233 | 1138 |
| 760                      | 0.185 | 995  | 0.196 | 1021 | 0.206 | 1048 | 0.217 | 1074 | 0.228 | 1099 | 0.239 | 1124 | 0.250 | 1148 |
| 808                      | 0.202 | 1008 | 0.212 | 1034 | 0.224 | 1060 | 0.235 | 1086 | 0.246 | 1110 | 0.258 | 1135 | 0.269 | 1159 |
| 855                      | 0.219 | 1022 | 0.230 | 1047 | 0.242 | 1073 | 0.253 | 1098 | 0.265 | 1122 | 0.277 | 1146 | 0.289 | 1170 |
| 903                      | 0.239 | 1036 | 0.250 | 1061 | 0.262 | 1086 | 0.274 | 1111 | 0.286 | 1135 | 0.298 | 1158 | 0.310 | 1181 |
| 950                      | 0.259 | 1051 | 0.271 | 1076 | 0.283 | 1100 | 0.295 | 1124 | 0.308 | 1147 | 0.320 | 1170 | 0.333 | 1193 |
| 998                      | 0.282 | 1067 | 0.294 | 1091 | 0.306 | 1115 | 0.319 | 1138 | 0.332 | 1161 | 0.344 | 1183 | —     | —    |
| 1045                     | 0.306 | 1083 | 0.318 | 1106 | 0.331 | 1129 | 0.344 | 1152 | 0.356 | 1174 | 0.369 | 1196 | —     | —    |
| 1140                     | 0.360 | 1116 | 0.373 | 1138 | 0.386 | 1160 | 0.399 | 1182 | —     | —    | —     | —    | —     | —    |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 1.05  |      | 1.10  |      | 1.15  |      |       |      |       |      |       |      |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  |       |      |       |      |       |      |       |      |
| 637                      | 0.217 | 1147 | 0.228 | 1171 | 0.238 | 1195 |       |      |       |      |       |      |       |      |
| 665                      | 0.227 | 1153 | 0.237 | 1177 | 0.248 | 1200 |       |      |       |      |       |      |       |      |
| 713                      | 0.244 | 1162 | 0.255 | 1186 | —     | —    |       |      |       |      |       |      |       |      |
| 760                      | 0.262 | 1172 | 0.273 | 1195 | —     | —    |       |      |       |      |       |      |       |      |
| 808                      | 0.281 | 1182 | —     | —    | —     | —    |       |      |       |      |       |      |       |      |
| 855                      | 0.301 | 1193 | —     | —    | —     | —    |       |      |       |      |       |      |       |      |
| 903                      | —     | —    | —     | —    | —     | —    |       |      |       |      |       |      |       |      |
| 950                      | —     | —    | —     | —    | —     | —    |       |      |       |      |       |      |       |      |
| 998                      | —     | —    | —     | —    | —     | —    |       |      |       |      |       |      |       |      |
| 1045                     | —     | —    | —     | —    | —     | —    |       |      |       |      |       |      |       |      |
| 1140                     | —     | —    | —     | —    | —     | —    |       |      |       |      |       |      |       |      |

**Table 121. Fan performance GEV/H036**

| External Static Pressure |       |     |       |     |       |     |       |     |       |     |       |     |       |     |
|--------------------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|                          | 0.00  |     | 0.05  |     | 0.10  |     | 0.15  |     | 0.20  |     | 0.25  |     | 0.30  |     |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM |
| 764                      | 0.063 | 526 | 0.069 | 567 | 0.075 | 607 | 0.081 | 645 | 0.088 | 682 | 0.096 | 717 | 0.104 | 751 |
| 798                      | 0.066 | 543 | 0.072 | 583 | 0.079 | 622 | 0.086 | 660 | 0.094 | 696 | 0.102 | 731 | 0.111 | 765 |
| 855                      | 0.073 | 570 | 0.080 | 610 | 0.088 | 648 | 0.096 | 685 | 0.105 | 721 | 0.115 | 756 | 0.124 | 789 |
| 912                      | 0.082 | 598 | 0.091 | 637 | 0.100 | 675 | 0.109 | 711 | 0.119 | 746 | 0.130 | 780 | 0.140 | 813 |

**Table 121. Fan performance GEV/H036 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 0.00  |      | 0.05  |      | 0.10  |      | 0.15  |      | 0.20  |      | 0.25  |      | 0.30  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 969                      | 0.094 | 625  | 0.104 | 663  | 0.114 | 700  | 0.125 | 736  | 0.136 | 771  | 0.147 | 804  | 0.159 | 837  |
| 1026                     | 0.109 | 651  | 0.120 | 689  | 0.131 | 725  | 0.143 | 761  | 0.155 | 795  | 0.167 | 828  | 0.180 | 860  |
| 1083                     | 0.127 | 676  | 0.139 | 714  | 0.151 | 750  | 0.163 | 785  | 0.176 | 818  | 0.190 | 851  | 0.203 | 882  |
| 1140                     | 0.147 | 700  | 0.160 | 737  | 0.173 | 773  | 0.186 | 808  | 0.200 | 841  | 0.214 | 873  | 0.229 | 904  |
| 1197                     | 0.170 | 724  | 0.183 | 760  | 0.198 | 796  | 0.212 | 830  | 0.227 | 863  | 0.241 | 894  | 0.256 | 925  |
| 1254                     | 0.195 | 746  | 0.210 | 782  | 0.224 | 817  | 0.240 | 851  | 0.255 | 884  | 0.271 | 915  | 0.286 | 945  |
| 1368                     | 0.253 | 788  | 0.269 | 823  | 0.285 | 858  | 0.302 | 891  | 0.319 | 923  | 0.336 | 953  | 0.353 | 983  |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 0.35  |      | 0.40  |      | 0.45  |      | 0.50  |      | 0.55  |      | 0.60  |      | 0.65  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 764                      | 0.112 | 785  | 0.121 | 817  | 0.130 | 848  | 0.139 | 878  | 0.149 | 907  | 0.159 | 935  | 0.169 | 962  |
| 798                      | 0.120 | 798  | 0.129 | 830  | 0.139 | 861  | 0.149 | 890  | 0.159 | 919  | 0.169 | 947  | 0.180 | 974  |
| 855                      | 0.134 | 821  | 0.145 | 853  | 0.155 | 883  | 0.166 | 912  | 0.177 | 940  | 0.189 | 967  | 0.200 | 994  |
| 912                      | 0.151 | 845  | 0.163 | 875  | 0.174 | 905  | 0.186 | 934  | 0.198 | 961  | 0.210 | 988  | 0.223 | 1014 |
| 969                      | 0.171 | 868  | 0.183 | 898  | 0.196 | 927  | 0.208 | 955  | 0.221 | 983  | 0.234 | 1009 | 0.247 | 1034 |
| 1026                     | 0.193 | 891  | 0.206 | 920  | 0.219 | 949  | 0.233 | 977  | 0.246 | 1004 | 0.260 | 1029 | 0.274 | 1055 |
| 1083                     | 0.217 | 913  | 0.231 | 942  | 0.245 | 970  | 0.259 | 998  | 0.273 | 1024 | 0.288 | 1050 | 0.302 | 1074 |
| 1140                     | 0.243 | 934  | 0.258 | 963  | 0.272 | 991  | 0.287 | 1018 | 0.302 | 1044 | 0.317 | 1069 | 0.333 | 1093 |
| 1197                     | 0.272 | 955  | 0.287 | 983  | 0.302 | 1011 | 0.318 | 1037 | 0.334 | 1063 | 0.349 | 1088 | 0.365 | 1112 |
| 1254                     | 0.302 | 974  | 0.318 | 1003 | 0.334 | 1030 | 0.350 | 1056 | 0.367 | 1082 | 0.383 | 1106 | 0.399 | 1130 |
| 1368                     | 0.370 | 1012 | 0.387 | 1039 | 0.404 | 1066 | 0.421 | 1092 | 0.438 | 1117 | 0.455 | 1141 | 0.472 | 1164 |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 0.70  |      | 0.75  |      | 0.80  |      | 0.85  |      | 0.90  |      | 0.95  |      | 1.00  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 764                      | 0.179 | 989  | 0.190 | 1014 | 0.201 | 1039 | 0.212 | 1063 | 0.223 | 1086 | 0.234 | 1109 | 0.245 | 1131 |
| 798                      | 0.191 | 1000 | 0.202 | 1025 | 0.213 | 1050 | 0.225 | 1073 | 0.236 | 1096 | 0.248 | 1119 | 0.260 | 1141 |
| 855                      | 0.212 | 1019 | 0.224 | 1044 | 0.236 | 1068 | 0.248 | 1091 | 0.261 | 1114 | 0.273 | 1136 | 0.285 | 1158 |
| 912                      | 0.235 | 1039 | 0.248 | 1063 | 0.261 | 1087 | 0.274 | 1110 | 0.287 | 1132 | 0.299 | 1154 | 0.312 | 1175 |
| 969                      | 0.261 | 1059 | 0.274 | 1083 | 0.287 | 1106 | 0.301 | 1129 | 0.314 | 1151 | 0.328 | 1172 | 0.341 | 1193 |
| 1026                     | 0.288 | 1079 | 0.302 | 1102 | 0.316 | 1125 | 0.330 | 1147 | 0.344 | 1169 | 0.358 | 1190 | —     | —    |
| 1083                     | 0.317 | 1098 | 0.331 | 1121 | 0.346 | 1144 | 0.361 | 1166 | 0.375 | 1187 | —     | —    | —     | —    |
| 1140                     | 0.348 | 1117 | 0.363 | 1140 | 0.378 | 1162 | 0.393 | 1184 | —     | —    | —     | —    | —     | —    |
| 1197                     | 0.381 | 1135 | 0.396 | 1158 | 0.412 | 1180 | —     | —    | —     | —    | —     | —    | —     | —    |
| 1254                     | 0.415 | 1153 | 0.431 | 1175 | 0.447 | 1197 | —     | —    | —     | —    | —     | —    | —     | —    |
| 1368                     | 0.489 | 1186 | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    |



## Unit Fan Performance

**Table 121. Fan performance GEV/H036 (continued)**

| External Static Pressure |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|
|                          | 1.05  |      | 1.10  |      | 1.15  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 764                      | 0.256 | 1153 | 0.268 | 1174 | 0.279 | 1195 |
| 798                      | 0.271 | 1162 | 0.283 | 1183 | —     | —    |
| 855                      | 0.297 | 1179 | 0.310 | 1199 | —     | —    |
| 912                      | 0.325 | 1196 | —     | —    | —     | —    |
| 969                      | —     | —    | —     | —    | —     | —    |
| 1026                     | —     | —    | —     | —    | —     | —    |
| 1083                     | —     | —    | —     | —    | —     | —    |
| 1140                     | —     | —    | —     | —    | —     | —    |
| 1197                     | —     | —    | —     | —    | —     | —    |
| 1254                     | —     | —    | —     | —    | —     | —    |
| 1368                     | —     | —    | —     | —    | —     | —    |

**Table 122. Fan performance GEV/H042**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 0.00  |      | 0.05  |      | 0.10  |      | 0.15  |      | 0.20  |      | 0.25  |      | 0.30  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 891                      | 0.078 | 588  | 0.086 | 627  | 0.095 | 665  | 0.104 | 702  | 0.114 | 737  | 0.124 | 771  | 0.134 | 804  |
| 931                      | 0.086 | 607  | 0.095 | 646  | 0.104 | 683  | 0.114 | 719  | 0.125 | 755  | 0.135 | 788  | 0.146 | 821  |
| 998                      | 0.101 | 638  | 0.112 | 676  | 0.123 | 713  | 0.134 | 749  | 0.145 | 783  | 0.157 | 816  | 0.169 | 849  |
| 1064                     | 0.121 | 668  | 0.132 | 705  | 0.144 | 742  | 0.156 | 777  | 0.169 | 811  | 0.182 | 843  | 0.195 | 875  |
| 1131                     | 0.143 | 697  | 0.156 | 734  | 0.169 | 770  | 0.183 | 804  | 0.196 | 837  | 0.210 | 870  | 0.224 | 901  |
| 1197                     | 0.170 | 724  | 0.183 | 760  | 0.198 | 796  | 0.212 | 830  | 0.227 | 863  | 0.241 | 894  | 0.256 | 925  |
| 1264                     | 0.200 | 750  | 0.214 | 786  | 0.229 | 821  | 0.245 | 855  | 0.260 | 887  | 0.276 | 918  | 0.292 | 949  |
| 1330                     | 0.232 | 774  | 0.248 | 810  | 0.264 | 845  | 0.280 | 878  | 0.297 | 910  | 0.313 | 941  | 0.330 | 971  |
| 1397                     | 0.269 | 798  | 0.286 | 833  | 0.302 | 867  | 0.319 | 900  | 0.337 | 932  | 0.354 | 963  | 0.371 | 992  |
| 1463                     | 0.308 | 820  | 0.326 | 855  | 0.343 | 889  | 0.361 | 921  | 0.379 | 953  | 0.397 | 983  | 0.414 | 1012 |
| 1596                     | 0.397 | 861  | 0.416 | 895  | 0.435 | 928  | 0.453 | 960  | 0.472 | 991  | 0.491 | 1021 | 0.510 | 1050 |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 0.35  |      | 0.40  |      | 0.45  |      | 0.50  |      | 0.55  |      | 0.60  |      | 0.65  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 891                      | 0.145 | 836  | 0.156 | 867  | 0.167 | 897  | 0.179 | 926  | 0.190 | 953  | 0.202 | 980  | 0.214 | 1007 |
| 931                      | 0.158 | 853  | 0.169 | 883  | 0.181 | 912  | 0.193 | 941  | 0.206 | 968  | 0.218 | 995  | 0.231 | 1021 |
| 998                      | 0.182 | 880  | 0.194 | 909  | 0.207 | 938  | 0.220 | 966  | 0.234 | 993  | 0.247 | 1019 | 0.261 | 1045 |
| 1064                     | 0.208 | 905  | 0.222 | 935  | 0.236 | 963  | 0.250 | 991  | 0.264 | 1017 | 0.278 | 1043 | 0.293 | 1068 |
| 1131                     | 0.239 | 931  | 0.253 | 960  | 0.268 | 988  | 0.283 | 1015 | 0.298 | 1041 | 0.313 | 1066 | 0.328 | 1090 |
| 1197                     | 0.272 | 955  | 0.287 | 983  | 0.302 | 1011 | 0.318 | 1037 | 0.334 | 1063 | 0.349 | 1088 | 0.365 | 1112 |
| 1264                     | 0.308 | 978  | 0.324 | 1006 | 0.340 | 1033 | 0.356 | 1059 | 0.373 | 1085 | 0.389 | 1109 | 0.405 | 1133 |
| 1330                     | 0.346 | 1000 | 0.363 | 1027 | 0.380 | 1054 | 0.397 | 1080 | 0.414 | 1105 | 0.430 | 1129 | 0.447 | 1153 |
| 1397                     | 0.388 | 1021 | 0.406 | 1048 | 0.423 | 1075 | 0.440 | 1100 | 0.458 | 1125 | 0.475 | 1149 | 0.492 | 1172 |

**Table 122. Fan performance GEV/H042 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 0.35  |      | 0.40  |      | 0.45  |      | 0.50  |      | 0.55  |      | 0.60  |      | 0.65  |      |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |       |      |
| 1463                     | 0.432 | 1040 | 0.450 | 1068 | 0.468 | 1094 | 0.486 | 1119 | 0.504 | 1144 | 0.521 | 1167 | 0.539 | 1190 |       |      |
| 1596                     | 0.529 | 1077 | 0.548 | 1104 | 0.566 | 1130 | 0.585 | 1154 | 0.603 | 1178 | —     | —    | —     | —    |       |      |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 0.70  |      | 0.75  |      | 0.80  |      | 0.85  |      | 0.90  |      | 0.95  |      | 1.00  |      | 1.05  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 891                      | 0.227 | 1032 | 0.239 | 1056 | 0.252 | 1080 | 0.264 | 1103 | 0.277 | 1126 | 0.289 | 1147 | 0.302 | 1169 | 0.315 | 1189 |
| 931                      | 0.244 | 1046 | 0.256 | 1070 | 0.269 | 1093 | 0.283 | 1116 | 0.296 | 1138 | 0.309 | 1160 | 0.322 | 1181 | —     | —    |
| 998                      | 0.274 | 1069 | 0.288 | 1093 | 0.302 | 1116 | 0.315 | 1138 | 0.329 | 1160 | 0.343 | 1181 | —     | —    | —     | —    |
| 1064                     | 0.307 | 1092 | 0.321 | 1115 | 0.336 | 1138 | 0.350 | 1160 | 0.365 | 1181 | —     | —    | —     | —    | —     | —    |
| 1131                     | 0.343 | 1114 | 0.358 | 1137 | 0.373 | 1159 | 0.388 | 1181 | —     | —    | —     | —    | —     | —    | —     | —    |
| 1197                     | 0.381 | 1135 | 0.396 | 1158 | 0.412 | 1180 | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    |
| 1264                     | 0.421 | 1156 | 0.437 | 1178 | 0.453 | 1200 | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    |
| 1330                     | 0.464 | 1175 | 0.480 | 1197 | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    |
| 1397                     | 0.509 | 1194 | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    |
| 1463                     | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    |
| 1596                     | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    |

**Table 123. Fan performance GEV/H048**

| External Static Pressure |       |     |       |     |       |     |       |     |       |     |       |     |       |     |
|--------------------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|                          | 0.00  |     | 0.05  |     | 0.10  |     | 0.15  |     | 0.20  |     | 0.25  |     | 0.30  |     |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM |
| 1018                     | 0.040 | 378 | 0.056 | 418 | 0.073 | 457 | 0.089 | 494 | 0.106 | 530 | 0.122 | 564 | 0.138 | 598 |
| 1064                     | 0.044 | 387 | 0.061 | 426 | 0.078 | 464 | 0.095 | 501 | 0.112 | 537 | 0.129 | 571 | 0.146 | 604 |
| 1140                     | 0.053 | 401 | 0.071 | 440 | 0.089 | 478 | 0.107 | 514 | 0.124 | 549 | 0.142 | 583 | 0.160 | 616 |
| 1216                     | 0.065 | 417 | 0.084 | 455 | 0.102 | 492 | 0.121 | 527 | 0.139 | 562 | 0.158 | 595 | 0.177 | 628 |
| 1292                     | 0.080 | 433 | 0.099 | 471 | 0.118 | 507 | 0.138 | 542 | 0.157 | 576 | 0.176 | 608 | 0.196 | 640 |
| 1368                     | 0.097 | 450 | 0.117 | 487 | 0.137 | 523 | 0.157 | 557 | 0.178 | 590 | 0.198 | 622 | 0.218 | 653 |
| 1444                     | 0.119 | 469 | 0.139 | 505 | 0.160 | 539 | 0.181 | 573 | 0.201 | 605 | 0.222 | 637 | 0.243 | 667 |
| 1520                     | 0.143 | 488 | 0.165 | 523 | 0.186 | 557 | 0.207 | 590 | 0.229 | 622 | 0.250 | 653 | 0.272 | 682 |
| 1596                     | 0.172 | 508 | 0.194 | 542 | 0.216 | 576 | 0.238 | 608 | 0.260 | 639 | 0.282 | 669 | 0.305 | 698 |
| 1672                     | 0.205 | 530 | 0.227 | 563 | 0.250 | 595 | 0.272 | 627 | 0.295 | 657 | 0.318 | 686 | 0.341 | 715 |
| 1824                     | 0.284 | 576 | 0.307 | 607 | 0.331 | 638 | 0.355 | 668 | 0.379 | 696 | 0.403 | 724 | 0.427 | 751 |
| External Static Pressure |       |     |       |     |       |     |       |     |       |     |       |     |       |     |
|                          | 0.35  |     | 0.40  |     | 0.45  |     | 0.50  |     | 0.55  |     | 0.60  |     | 0.65  |     |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM |
| 1018                     | 0.155 | 630 | 0.171 | 662 | 0.187 | 692 | 0.204 | 721 | 0.220 | 750 | 0.237 | 777 | 0.253 | 803 |
| 1064                     | 0.163 | 637 | 0.180 | 668 | 0.197 | 698 | 0.214 | 727 | 0.231 | 755 | 0.248 | 782 | 0.265 | 808 |
| 1140                     | 0.178 | 647 | 0.196 | 678 | 0.214 | 708 | 0.232 | 736 | 0.250 | 764 | 0.268 | 791 | 0.286 | 817 |
| 1216                     | 0.195 | 659 | 0.214 | 689 | 0.233 | 718 | 0.252 | 746 | 0.271 | 774 | 0.290 | 800 | 0.309 | 826 |



## Unit Fan Performance

Table 123. Fan performance GEV/H048 (continued)

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 0.35  |      | 0.40  |      | 0.45  |      | 0.50  |      | 0.55  |      | 0.60  |      | 0.65  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 1292                     | 0.215 | 671  | 0.235 | 700  | 0.255 | 729  | 0.275 | 757  | 0.294 | 784  | 0.314 | 810  | 0.334 | 835  |
| 1368                     | 0.238 | 684  | 0.259 | 713  | 0.279 | 741  | 0.300 | 768  | 0.321 | 795  | 0.342 | 820  | 0.363 | 845  |
| 1444                     | 0.265 | 697  | 0.286 | 726  | 0.307 | 753  | 0.328 | 780  | 0.350 | 806  | 0.372 | 831  | 0.394 | 855  |
| 1520                     | 0.294 | 711  | 0.316 | 739  | 0.338 | 766  | 0.360 | 792  | 0.383 | 818  | 0.405 | 843  | 0.428 | 866  |
| 1596                     | 0.327 | 726  | 0.350 | 754  | 0.373 | 780  | 0.396 | 806  | 0.419 | 831  | 0.442 | 855  | 0.465 | 878  |
| 1672                     | 0.364 | 742  | 0.388 | 769  | 0.411 | 795  | 0.435 | 820  | 0.459 | 844  | 0.483 | 868  | 0.507 | 891  |
| 1824                     | 0.451 | 777  | 0.476 | 802  | 0.501 | 827  | 0.525 | 851  | 0.551 | 874  | 0.576 | 896  | 0.601 | 918  |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 0.70  |      | 0.75  |      | 0.80  |      | 0.85  |      | 0.90  |      | 0.95  |      | 1.00  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 1018                     | 0.270 | 829  | 0.287 | 854  | 0.303 | 877  | 0.320 | 901  | 0.337 | 923  | 0.354 | 945  | 0.371 | 966  |
| 1064                     | 0.282 | 834  | 0.300 | 858  | 0.317 | 882  | 0.334 | 905  | 0.352 | 927  | 0.370 | 949  | 0.387 | 970  |
| 1140                     | 0.304 | 842  | 0.323 | 866  | 0.341 | 890  | 0.360 | 913  | 0.378 | 935  | 0.397 | 956  | 0.416 | 977  |
| 1216                     | 0.328 | 851  | 0.348 | 875  | 0.367 | 898  | 0.387 | 920  | 0.406 | 942  | 0.426 | 964  | 0.446 | 984  |
| 1292                     | 0.355 | 860  | 0.375 | 883  | 0.395 | 906  | 0.416 | 929  | 0.437 | 950  | 0.457 | 971  | 0.478 | 992  |
| 1368                     | 0.384 | 869  | 0.405 | 892  | 0.426 | 915  | 0.448 | 937  | 0.469 | 959  | 0.491 | 979  | 0.513 | 1000 |
| 1444                     | 0.416 | 879  | 0.438 | 902  | 0.460 | 924  | 0.482 | 946  | 0.505 | 967  | 0.528 | 988  | 0.551 | 1008 |
| 1520                     | 0.451 | 890  | 0.473 | 912  | 0.497 | 934  | 0.520 | 956  | 0.543 | 976  | 0.567 | 997  | 0.591 | 1016 |
| 1596                     | 0.489 | 901  | 0.513 | 923  | 0.537 | 945  | 0.561 | 966  | 0.585 | 986  | 0.610 | 1006 | 0.634 | 1025 |
| 1672                     | 0.531 | 913  | 0.556 | 935  | 0.580 | 956  | 0.605 | 976  | 0.630 | 996  | 0.656 | 1016 | 0.681 | 1035 |
| 1824                     | 0.627 | 939  | 0.653 | 960  | 0.680 | 980  | 0.706 | 999  | 0.733 | 1018 | 0.760 | 1037 | 0.787 | 1055 |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 1.05  |      | 1.10  |      | 1.15  |      | 1.20  |      | 1.25  |      | 1.30  |      | 1.35  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 1018                     | 0.388 | 986  | 0.405 | 1006 | 0.423 | 1025 | 0.440 | 1044 | 0.458 | 1062 | 0.475 | 1080 | 0.493 | 1098 |
| 1064                     | 0.405 | 990  | 0.423 | 1010 | 0.441 | 1030 | 0.459 | 1048 | 0.478 | 1067 | 0.496 | 1085 | 0.515 | 1102 |
| 1140                     | 0.435 | 997  | 0.454 | 1017 | 0.473 | 1036 | 0.492 | 1055 | 0.512 | 1073 | 0.531 | 1091 | 0.551 | 1109 |
| 1216                     | 0.466 | 1005 | 0.486 | 1024 | 0.506 | 1043 | 0.527 | 1062 | 0.548 | 1080 | 0.568 | 1098 | 0.589 | 1116 |
| 1292                     | 0.499 | 1012 | 0.521 | 1031 | 0.542 | 1050 | 0.564 | 1069 | 0.585 | 1087 | 0.607 | 1105 | 0.629 | 1123 |
| 1368                     | 0.535 | 1020 | 0.557 | 1039 | 0.580 | 1058 | 0.603 | 1076 | 0.625 | 1095 | 0.648 | 1112 | 0.672 | 1130 |
| 1444                     | 0.574 | 1027 | 0.597 | 1047 | 0.620 | 1065 | 0.644 | 1084 | 0.668 | 1102 | 0.692 | 1120 | 0.716 | 1137 |
| 1520                     | 0.615 | 1036 | 0.639 | 1055 | 0.664 | 1073 | 0.688 | 1091 | 0.713 | 1109 | 0.738 | 1127 | 0.764 | 1144 |
| 1596                     | 0.659 | 1044 | 0.685 | 1063 | 0.710 | 1081 | 0.736 | 1099 | 0.761 | 1117 | 0.788 | 1135 | 0.814 | 1152 |
| 1672                     | 0.707 | 1054 | 0.733 | 1072 | 0.760 | 1090 | 0.786 | 1108 | 0.813 | 1125 | 0.840 | 1143 | 0.867 | 1160 |
| 1824                     | 0.814 | 1073 | 0.842 | 1091 | 0.870 | 1109 | 0.898 | 1126 | 0.927 | 1143 | 0.956 | 1160 | 0.985 | 1177 |

**Table 123. Fan performance GEV/H048 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 1.40  |      | 1.45  |      | 1.50  |      | 1.55  |      | 1.60  |      | 1.65  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 1018                     | 0.511 | 1115 | 0.529 | 1132 | 0.547 | 1148 | 0.566 | 1164 | 0.584 | 1180 | 0.603 | 1196 |
| 1064                     | 0.533 | 1119 | 0.552 | 1136 | 0.571 | 1153 | 0.590 | 1169 | 0.610 | 1185 | —     | —    |
| 1140                     | 0.571 | 1126 | 0.591 | 1143 | 0.611 | 1160 | 0.632 | 1176 | 0.653 | 1193 | —     | —    |
| 1216                     | 0.611 | 1133 | 0.632 | 1150 | 0.653 | 1167 | 0.675 | 1184 | 0.697 | 1200 | —     | —    |
| 1292                     | 0.652 | 1140 | 0.674 | 1157 | 0.697 | 1174 | 0.720 | 1191 | —     | —    | —     | —    |
| 1368                     | 0.695 | 1147 | 0.719 | 1164 | 0.743 | 1181 | 0.767 | 1198 | —     | —    | —     | —    |
| 1444                     | 0.741 | 1154 | 0.766 | 1172 | 0.791 | 1189 | —     | —    | —     | —    | —     | —    |
| 1520                     | 0.789 | 1162 | 0.815 | 1179 | 0.841 | 1196 | —     | —    | —     | —    | —     | —    |
| 1596                     | 0.841 | 1169 | 0.867 | 1186 | —     | —    | —     | —    | —     | —    | —     | —    |
| 1672                     | 0.895 | 1177 | 0.923 | 1194 | —     | —    | —     | —    | —     | —    | —     | —    |
| 1824                     | 1.014 | 1193 | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    |

**Table 124. Fan performance GEV/H060**

| External Static Pressure |       |     |       |     |       |     |       |     |       |     |       |     |       |     |
|--------------------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|                          | 0.00  |     | 0.05  |     | 0.10  |     | 0.15  |     | 0.20  |     | 0.25  |     | 0.30  |     |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM |
| 1273                     | 0.076 | 429 | 0.095 | 467 | 0.114 | 503 | 0.133 | 538 | 0.152 | 572 | 0.172 | 605 | 0.191 | 637 |
| 1330                     | 0.088 | 442 | 0.108 | 479 | 0.127 | 515 | 0.147 | 549 | 0.167 | 583 | 0.187 | 615 | 0.207 | 647 |
| 1425                     | 0.113 | 464 | 0.133 | 500 | 0.154 | 535 | 0.175 | 569 | 0.195 | 602 | 0.216 | 633 | 0.237 | 664 |
| 1520                     | 0.143 | 488 | 0.165 | 523 | 0.186 | 557 | 0.207 | 590 | 0.229 | 622 | 0.250 | 653 | 0.272 | 682 |
| 1615                     | 0.180 | 513 | 0.202 | 547 | 0.224 | 580 | 0.246 | 612 | 0.268 | 643 | 0.291 | 673 | 0.313 | 702 |
| 1710                     | 0.223 | 541 | 0.246 | 574 | 0.268 | 606 | 0.291 | 637 | 0.314 | 666 | 0.337 | 695 | 0.361 | 723 |
| 1805                     | 0.273 | 570 | 0.296 | 602 | 0.320 | 633 | 0.343 | 662 | 0.367 | 691 | 0.391 | 719 | 0.415 | 746 |
| 1900                     | 0.331 | 601 | 0.355 | 632 | 0.379 | 661 | 0.403 | 690 | 0.427 | 718 | 0.452 | 745 | 0.477 | 771 |
| 1995                     | 0.397 | 634 | 0.421 | 663 | 0.446 | 692 | 0.471 | 720 | 0.496 | 746 | 0.521 | 772 | 0.546 | 797 |
| 2090                     | 0.472 | 669 | 0.497 | 697 | 0.522 | 725 | 0.547 | 751 | 0.572 | 777 | 0.598 | 801 | 0.624 | 825 |
| 2280                     | 0.649 | 747 | 0.675 | 772 | 0.701 | 797 | 0.727 | 821 | 0.753 | 844 | 0.780 | 866 | 0.806 | 887 |
| External Static Pressure |       |     |       |     |       |     |       |     |       |     |       |     |       |     |
|                          | 0.35  |     | 0.40  |     | 0.45  |     | 0.50  |     | 0.55  |     | 0.60  |     | 0.65  |     |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM |
| 1273                     | 0.210 | 668 | 0.230 | 698 | 0.249 | 726 | 0.269 | 754 | 0.288 | 781 | 0.308 | 807 | 0.328 | 833 |
| 1330                     | 0.227 | 677 | 0.247 | 706 | 0.267 | 735 | 0.287 | 762 | 0.307 | 789 | 0.328 | 815 | 0.348 | 840 |
| 1425                     | 0.258 | 694 | 0.279 | 722 | 0.300 | 750 | 0.321 | 777 | 0.342 | 803 | 0.364 | 828 | 0.386 | 853 |
| 1520                     | 0.294 | 711 | 0.316 | 739 | 0.338 | 766 | 0.360 | 792 | 0.383 | 818 | 0.405 | 843 | 0.428 | 866 |
| 1615                     | 0.336 | 730 | 0.359 | 757 | 0.382 | 784 | 0.405 | 809 | 0.428 | 834 | 0.452 | 858 | 0.475 | 881 |
| 1710                     | 0.384 | 751 | 0.408 | 777 | 0.432 | 802 | 0.456 | 827 | 0.480 | 851 | 0.504 | 874 | 0.529 | 897 |
| 1805                     | 0.439 | 773 | 0.464 | 798 | 0.488 | 823 | 0.513 | 847 | 0.538 | 870 | 0.563 | 892 | 0.589 | 914 |
| 1900                     | 0.502 | 796 | 0.527 | 821 | 0.552 | 844 | 0.578 | 867 | 0.603 | 890 | 0.629 | 911 | 0.656 | 933 |
| 1995                     | 0.572 | 821 | 0.597 | 845 | 0.623 | 868 | 0.650 | 890 | 0.676 | 911 | 0.703 | 932 | 0.730 | 952 |



## Unit Fan Performance

Table 124. Fan performance GEV/H060 (continued)

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 0.35  |      | 0.40  |      | 0.45  |      | 0.50  |      | 0.55  |      | 0.60  |      | 0.65  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 2090                     | 0.650 | 848  | 0.676 | 871  | 0.703 | 893  | 0.730 | 914  | 0.757 | 934  | 0.784 | 954  | 0.812 | 974  |
| 2280                     | 0.834 | 908  | 0.861 | 929  | 0.889 | 948  | 0.917 | 967  | —     | —    | —     | —    | —     | —    |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 0.70  |      | 0.75  |      | 0.80  |      | 0.85  |      | 0.90  |      | 0.95  |      | 1.00  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 1273                     | 0.348 | 857  | 0.368 | 881  | 0.388 | 904  | 0.408 | 927  | 0.429 | 948  | 0.449 | 969  | 0.470 | 990  |
| 1330                     | 0.369 | 864  | 0.390 | 888  | 0.410 | 911  | 0.431 | 933  | 0.453 | 954  | 0.474 | 975  | 0.495 | 996  |
| 1425                     | 0.407 | 877  | 0.429 | 900  | 0.451 | 922  | 0.473 | 944  | 0.496 | 965  | 0.518 | 986  | 0.541 | 1006 |
| 1520                     | 0.451 | 890  | 0.473 | 912  | 0.497 | 934  | 0.520 | 956  | 0.543 | 976  | 0.567 | 997  | 0.591 | 1016 |
| 1615                     | 0.499 | 904  | 0.523 | 926  | 0.547 | 947  | 0.572 | 968  | 0.596 | 988  | 0.621 | 1008 | 0.646 | 1028 |
| 1710                     | 0.554 | 919  | 0.578 | 940  | 0.604 | 961  | 0.629 | 982  | 0.655 | 1001 | 0.680 | 1021 | 0.706 | 1040 |
| 1805                     | 0.614 | 935  | 0.640 | 956  | 0.666 | 976  | 0.692 | 996  | 0.719 | 1015 | 0.746 | 1034 | 0.773 | 1053 |
| 1900                     | 0.682 | 953  | 0.709 | 973  | 0.736 | 993  | 0.763 | 1012 | 0.790 | 1030 | 0.818 | 1049 | 0.846 | 1067 |
| 1995                     | 0.757 | 972  | 0.784 | 991  | 0.812 | 1010 | 0.840 | 1029 | 0.868 | 1047 | 0.897 | 1064 | 0.926 | 1082 |
| 2090                     | 0.840 | 993  | 0.868 | 1011 | 0.897 | 1029 | 0.925 | 1047 | 0.954 | 1064 | 0.984 | 1081 | 1.013 | 1098 |
| 2280                     | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 1.05  |      | 1.10  |      | 1.15  |      | 1.20  |      | 1.25  |      | 1.30  |      | 1.35  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 1273                     | 0.491 | 1010 | 0.512 | 1030 | 0.533 | 1049 | 0.554 | 1067 | 0.576 | 1086 | 0.597 | 1104 | 0.619 | 1121 |
| 1330                     | 0.517 | 1016 | 0.539 | 1035 | 0.561 | 1054 | 0.583 | 1073 | 0.605 | 1091 | 0.628 | 1109 | 0.650 | 1126 |
| 1425                     | 0.564 | 1025 | 0.587 | 1045 | 0.610 | 1063 | 0.633 | 1082 | 0.657 | 1100 | 0.681 | 1118 | 0.705 | 1135 |
| 1520                     | 0.615 | 1036 | 0.639 | 1055 | 0.664 | 1073 | 0.688 | 1091 | 0.713 | 1109 | 0.738 | 1127 | 0.764 | 1144 |
| 1615                     | 0.671 | 1047 | 0.696 | 1065 | 0.722 | 1084 | 0.748 | 1102 | 0.774 | 1119 | 0.800 | 1137 | 0.827 | 1154 |
| 1710                     | 0.733 | 1058 | 0.759 | 1077 | 0.786 | 1095 | 0.813 | 1112 | 0.840 | 1130 | 0.868 | 1147 | 0.895 | 1164 |
| 1805                     | 0.800 | 1071 | 0.828 | 1089 | 0.855 | 1106 | 0.883 | 1124 | 0.912 | 1141 | 0.940 | 1158 | 0.969 | 1174 |
| 1900                     | 0.874 | 1084 | 0.903 | 1102 | 0.931 | 1119 | 0.960 | 1136 | 0.990 | 1152 | 1.020 | 1169 | 1.050 | 1185 |
| 1995                     | 0.955 | 1099 | 0.984 | 1116 | 1.014 | 1132 | 1.044 | 1149 | 1.075 | 1165 | —     | —    | —     | —    |
| 2090                     | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    |
| 2280                     | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    |
| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|                          | 1.40  |      | 1.45  |      | 1.50  |      | 1.55  |      |       |      |       |      |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |       |      |       |      |       |      |
| 1273                     | 0.641 | 1139 | 0.663 | 1156 | 0.686 | 1172 | 0.709 | 1189 |       |      |       |      |       |      |
| 1330                     | 0.673 | 1144 | 0.696 | 1161 | 0.720 | 1178 | 0.743 | 1195 |       |      |       |      |       |      |
| 1425                     | 0.729 | 1153 | 0.754 | 1170 | 0.778 | 1187 | —     | —    |       |      |       |      |       |      |
| 1520                     | 0.789 | 1162 | 0.815 | 1179 | 0.841 | 1196 | —     | —    |       |      |       |      |       |      |
| 1615                     | 0.854 | 1171 | 0.881 | 1188 | —     | —    | —     | —    |       |      |       |      |       |      |
| 1710                     | 0.923 | 1181 | 0.952 | 1198 | —     | —    | —     | —    |       |      |       |      |       |      |



Table 124. Fan performance GEV/H060 (continued)

| CFM  | External Static Pressure |      |      |     |      |     |      |     |
|------|--------------------------|------|------|-----|------|-----|------|-----|
|      | 1.40                     |      | 1.45 |     | 1.50 |     | 1.55 |     |
|      | kW                       | RPM  | kW   | RPM | kW   | RPM | kW   | RPM |
| 1805 | 0.999                    | 1191 | —    | —   | —    | —   | —    | —   |
| 1900 | —                        | —    | —    | —   | —    | —   | —    | —   |
| 1995 | —                        | —    | —    | —   | —    | —   | —    | —   |
| 2090 | —                        | —    | —    | —   | —    | —   | —    | —   |
| 2280 | —                        | —    | —    | —   | —    | —   | —    | —   |

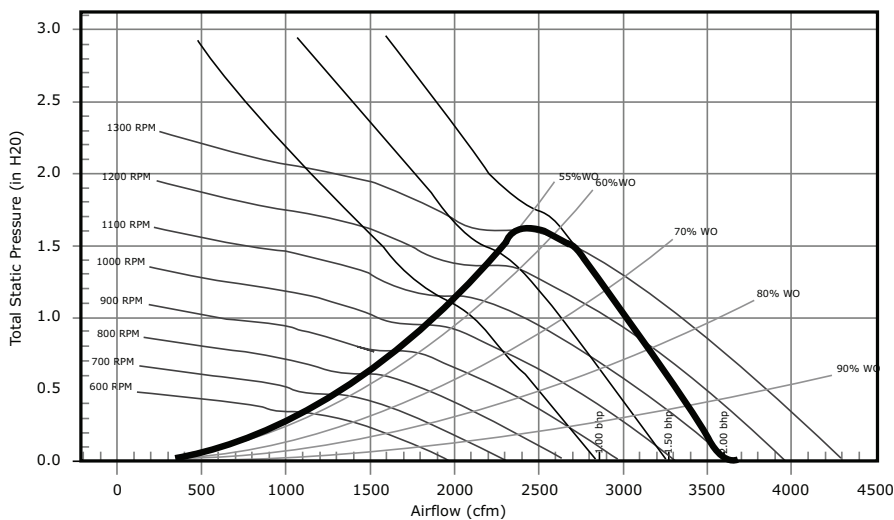
Figure 17. Fan performance curve 6 tons GEH072<sup>3</sup>


Table 125. Fan performance 6 tons GEH072 (includes wet coil, no filter)

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5     |         | 0.6     |         | 0.7     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 1920                  | 632(a)                                                                                                | 0.35(a) | 682(a)  | 0.40(a) | 729(a)  | 0.46(a) | 774(a)  | 0.51(a) | 818(a)  | 0.57(a) | 860(a)  | 0.62(a) | 901(a)  | 0.68(a) |
| 2160                  | 699(a)                                                                                                | 0.49(a) | 745(a)  | 0.55(a) | 787(a)  | 0.60(a) | 829(a)  | 0.66(a) | 869(a)  | 0.72(a) | 907(a)  | 0.79(a) | 945(b)  | 0.85(b) |
| 2400                  | 767(a)                                                                                                | 0.66(a) | 808(a)  | 0.72(a) | 848(a)  | 0.78(a) | 886(a)  | 0.85(a) | 923(a)  | 0.91(a) | 959(b)  | 0.98(b) | 994(c)  | 1.05(c) |
| 2640                  | 836(a)                                                                                                | 0.86(a) | 874(a)  | 0.93(a) | 911(a)  | 1.00(a) | 946(c)  | 1.07(c) | 980(c)  | 1.14(c) | 1014(c) | 1.21(c) | 1047(c) | 1.28(c) |
| 2880                  | 905(c)                                                                                                | 1.10(c) | 940(c)  | 1.17(c) | 974(c)  | 1.25(c) | 1008(c) | 1.33(c) | 1039(c) | 1.40(c) | 1071(c) | 1.48(c) | 1102(d) | 1.56(d) |
| Std Airflow<br>CFM    | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                       | 0.8                                                                                                   |         | 0.9     |         | 1.0     |         | 1.1     |         | 1.2     |         | 1.3     |         |         |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |         |         |
| 1920                  | 941(b)                                                                                                | 0.74(b) | 979(b)  | 0.80(b) | 1027(b) | 0.89(b) | 1077(b) | 0.98(b) | 1120(c) | 1.06(c) | 1159(c) | 1.14(c) |         |         |
| 2160                  | 982(b)                                                                                                | 0.91(b) | 1018(b) | 0.98(b) | 1053(c) | 1.05(c) | 1087(c) | 1.12(c) | 1122(c) | 1.19(c) | 1171(c) | 1.30(c) |         |         |
| 2400                  | 1029(c)                                                                                               | 1.12(c) | 1062(c) | 1.19(c) | 1095(c) | 1.26(c) | 1128(c) | 1.33(c) | 1159(c) | 1.41(c) | 1191(c) | 1.49(c) |         |         |
| 2640                  | 1078(c)                                                                                               | 1.36(c) | 1111(c) | 1.44(c) | 1142(d) | 1.51(d) | 1171(d) | 1.59(d) | 1202(d) | 1.67(d) | 1231(d) | 1.75(d) |         |         |
| 2880                  | 1132(d)                                                                                               | 1.64(d) | 1161(d) | 1.72(d) | 1191(d) | 1.80(d) | 1220(d) | 1.89(d) | 1248(d) | 1.97(d) | —       | —       |         |         |

<sup>3</sup>. Includes wet coil, no filter



## Unit Fan Performance

Table 125. Fan performance 6 tons GEH072 (includes wet coil, no filter) (continued)

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------------|-------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                       | 0.1                                                                                                   |     | 0.2 |     | 0.3 |     | 0.4 |     | 0.5 |     | 0.6 |     | 0.7 |     |
|                       | RPM                                                                                                   | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (a)                      | A                  | 1               |
| (b)                      | B                  | 2               |
| (c)                      | C                  | 3               |
| (d)                      | D                  | 4               |

Figure 18. Fan performance curve (top supply) 6 tons GEV072<sup>4</sup>

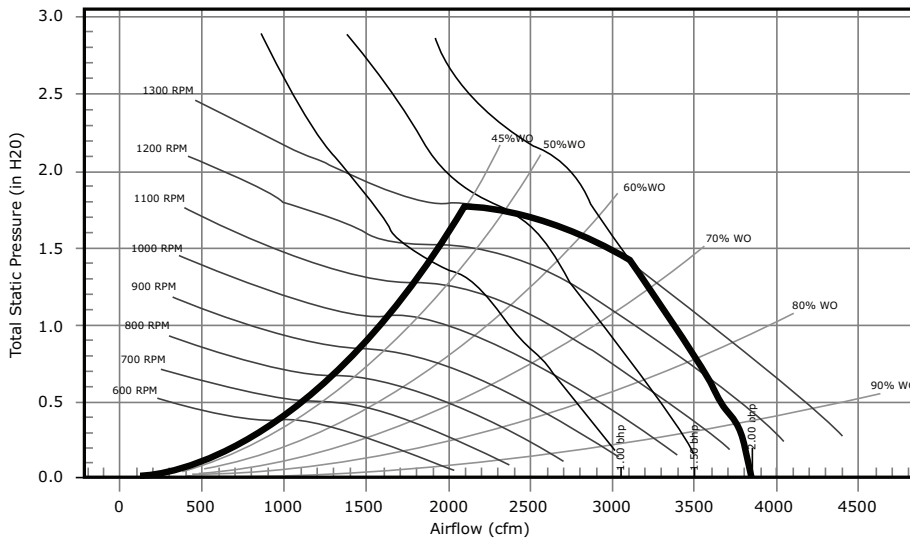


Table 126. Fan performance (top supply) 6 tons GEV072 (includes wet coil, no filter)

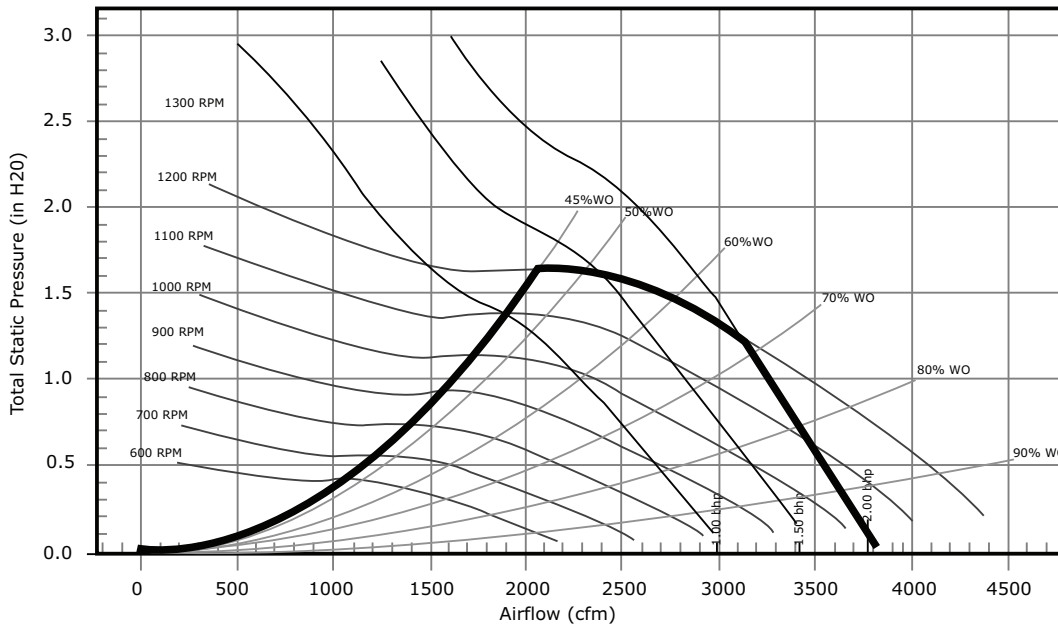
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5     |         | 0.6     |         | 0.7     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 1920                  | 595(a)                                                                                                | 0.27(a) | 649(a)  | 0.32(a) | 698(a)  | 0.36(a) | 744(a)  | 0.40(a) | 788(a)  | 0.45(a) | 830(a)  | 0.50(a) | 871(a)  | 0.55(a) |
| 2160                  | 655(a)                                                                                                | 0.37(a) | 705(a)  | 0.42(a) | 751(a)  | 0.47(a) | 794(a)  | 0.52(a) | 835(a)  | 0.57(a) | 874(a)  | 0.63(a) | 912(b)  | 0.68(b) |
| 2400                  | 717(a)                                                                                                | 0.50(a) | 763(a)  | 0.56(a) | 806(a)  | 0.61(a) | 846(a)  | 0.67(a) | 884(a)  | 0.72(a) | 921(b)  | 0.78(b) | 957(b)  | 0.83(b) |
| 2640                  | 780(a)                                                                                                | 0.65(a) | 822(a)  | 0.71(a) | 862(a)  | 0.78(a) | 900(b)  | 0.84(b) | 937(b)  | 0.90(b) | 971(b)  | 0.96(b) | 1005(c) | 1.02(c) |
| 2880                  | 844(a)                                                                                                | 0.84(a) | 882(a)  | 0.90(a) | 920(b)  | 0.97(b) | 956(c)  | 1.04(c) | 990(c)  | 1.10(c) | 1023(c) | 1.17(c) | 1055(c) | 1.23(c) |
| Std Airflow<br>CFM    | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                       | 0.8                                                                                                   |         | 0.9     |         | 1.0     |         | 1.1     |         | 1.2     |         | 1.3     |         |         |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |         |         |
| 1920                  | 912(b)                                                                                                | 0.60(b) | 953(b)  | 0.65(b) | 993(b)  | 0.70(b) | 1034(b) | 0.76(b) | 1072(b) | 0.84(b) | 1111(b) | 0.92(b) |         |         |
| 2160                  | 949(b)                                                                                                | 0.74(b) | 985(b)  | 0.79(b) | 1021(b) | 0.85(b) | 1058(b) | 0.90(b) | 1094(b) | 0.95(b) | 1129(c) | 1.02(c) |         |         |
| 2400                  | 991(b)                                                                                                | 0.89(b) | 1024(b) | 0.96(b) | 1057(c) | 1.02(c) | 1091(c) | 1.08(c) | 1123(c) | 1.14(c) | 1157(c) | 1.20(c) |         |         |

<sup>4</sup> Includes wet coil, no filter

**Table 126. Fan performance (top supply) 6 tons GEV072 (includes wet coil, no filter) (continued)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |     |     |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|-----|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5     |         | 0.6     |         | 0.7 |     |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM | BHP |
| 2640                  | 1038(c)                                                                                               | 1.08(c) | 1069(c) | 1.15(c) | 1100(c) | 1.21(c) | 1130(c) | 1.28(c) | 1161(c) | 1.35(c) | 1191(c) | 1.42(c) |     |     |
| 2880                  | 1086(c)                                                                                               | 1.30(c) | 1116(c) | 1.36(c) | 1145(c) | 1.43(c) | 1175(d) | 1.51(d) | 1203(d) | 1.58(d) | 1231(d) | 1.66(d) |     |     |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (a)                      | A                  | 1               |
| (b)                      | B                  | 2               |
| (c)                      | C                  | 3               |
| (d)                      | D                  | 4               |

**Figure 19. Fan performance curve (front/back supply) 6 tons GEV072<sup>5</sup>**

**Table 127. Fan performance (front/back supply) 6 tons GEV072 (includes wet coil, no filter)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |        |         |        |         |        |         |        |         |        |         |        |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|
|                       | 0.1                                                                                                   |         | 0.2    |         | 0.3    |         | 0.4    |         | 0.5    |         | 0.6    |         | 0.7    |         |
|                       | RPM                                                                                                   | BHP     | RPM    | BHP     | RPM    | BHP     | RPM    | BHP     | RPM    | BHP     | RPM    | BHP     | RPM    | BHP     |
| 1920                  | 559(a)                                                                                                | 0.30(a) | 611(a) | 0.34(a) | 660(a) | 0.39(a) | 706(a) | 0.44(a) | 749(a) | 0.48(a) | 790(a) | 0.53(a) | 831(a) | 0.59(a) |
| 2160                  | 616(a)                                                                                                | 0.41(a) | 663(a) | 0.46(a) | 708(a) | 0.51(a) | 751(a) | 0.56(a) | 792(a) | 0.62(a) | 830(a) | 0.67(a) | 867(a) | 0.73(a) |
| 2400                  | 674(a)                                                                                                | 0.55(a) | 717(a) | 0.60(a) | 759(a) | 0.66(a) | 799(a) | 0.72(a) | 837(a) | 0.78(a) | 873(a) | 0.84(a) | 909(b) | 0.90(b) |
| 2640                  | 733(a)                                                                                                | 0.71(a) | 773(a) | 0.78(a) | 811(a) | 0.84(a) | 849(a) | 0.90(a) | 884(a) | 0.97(a) | 919(c) | 1.03(c) | 953(c) | 1.10(c) |
| 2880                  | 793(a)                                                                                                | 0.91(a) | 830(a) | 0.98(a) | 865(c) | 1.05(c) | 900(c) | 1.12(c) | 934(c) | 1.19(c) | 966(c) | 1.26(c) | 998(c) | 1.33(c) |

<sup>5</sup> Includes wet coil, no filter



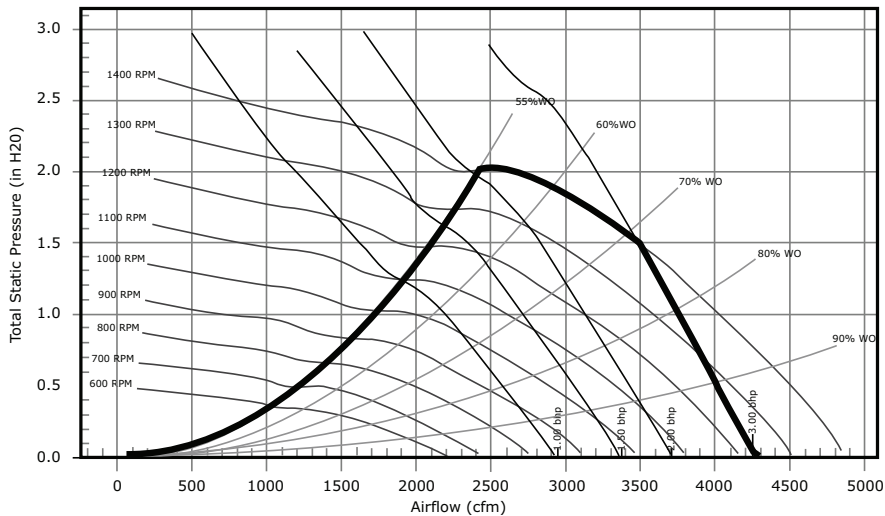
## Unit Fan Performance

**Table 127. Fan performance (front/back supply) 6 tons GEV072 (includes wet coil, no filter) (continued)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |     |     |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|-----|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5     |         | 0.6     |         | 0.7 |     |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM | BHP |
| Std Airflow<br>CFM    | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |     |     |
|                       | 0.8                                                                                                   |         | 0.9     |         | 1.0     |         | 1.1     |         | 1.2     |         | 1.3     |         |     |     |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |     |     |
| 1920                  | 869(a)                                                                                                | 0.64(a) | 907(b)  | 0.70(b) | 947(b)  | 0.76(b) | 988(b)  | 0.83(b) | 1030(b) | 0.90(b) | 1068(b) | 0.97(b) |     |     |
| 2160                  | 904(b)                                                                                                | 0.78(b) | 939(b)  | 0.84(b) | 974(b)  | 0.91(b) | 1008(b) | 0.97(b) | 1042(c) | 1.04(c) | 1079(c) | 1.11(c) |     |     |
| 2400                  | 943(b)                                                                                                | 0.96(b) | 975(c)  | 1.02(c) | 1007(c) | 1.08(c) | 1040(c) | 1.15(c) | 1071(c) | 1.22(c) | 1102(c) | 1.29(c) |     |     |
| 2640                  | 985(c)                                                                                                | 1.16(c) | 1016(c) | 1.23(c) | 1046(c) | 1.29(c) | 1076(c) | 1.36(c) | 1106(c) | 1.43(c) | 1135(d) | 1.51(d) |     |     |
| 2880                  | 1029(c)                                                                                               | 1.40(c) | 1060(c) | 1.47(c) | 1088(d) | 1.54(d) | 1116(d) | 1.61(d) | 1144(d) | 1.69(d) | 1172(d) | 1.77(d) |     |     |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (a)                      | A                  | 1               |
| (b)                      | B                  | 2               |
| (c)                      | C                  | 3               |
| (d)                      | D                  | 4               |

**Figure 20. Fan performance curve 7.5 tons GEH090<sup>6</sup>**



**Table 128. Fan performance 7.5 tons GEH090 (includes wet coil, no filter)**

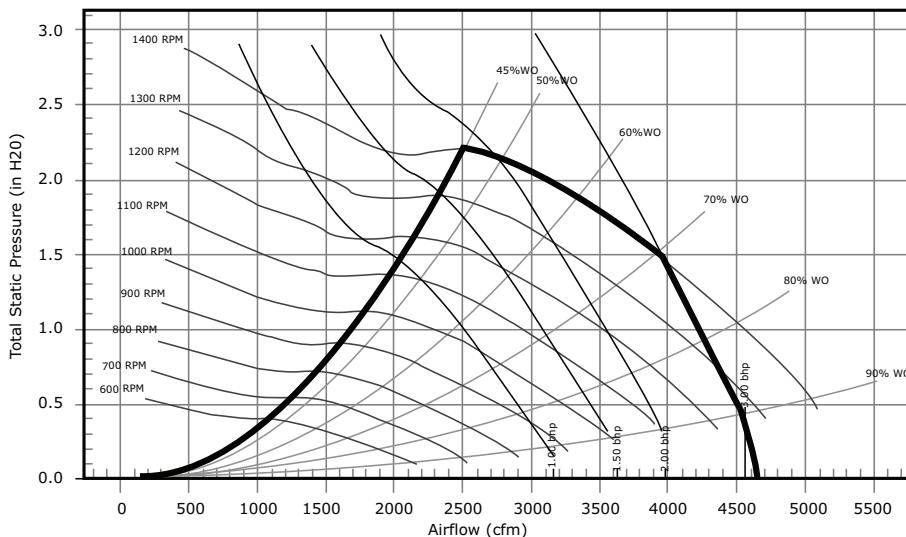
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |        |         |        |         |        |         |         |         |         |         |         |         |         |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|--------|---------|--------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                       | 0.1                                                                                                   |         | 0.2    |         | 0.3    |         | 0.4    |         | 0.5     |         | 0.6     |         | 0.7     |         | 0.8     |         |
|                       | RPM                                                                                                   | BHP     | RPM    | BHP     | RPM    | BHP     | RPM    | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 2400                  | 727(a)                                                                                                | 0.59(a) | 769(a) | 0.65(a) | 810(a) | 0.72(a) | 849(a) | 0.78(a) | 886(a)  | 0.84(a) | 923(a)  | 0.90(a) | 958(a)  | 0.96(a) | 993(c)  | 1.03(c) |
| 2700                  | 809(a)                                                                                                | 0.82(a) | 845(a) | 0.89(a) | 883(a) | 0.96(a) | 919(b) | 1.03(b) | 953(b)  | 1.10(b) | 986(c)  | 1.17(c) | 1018(c) | 1.24(c) | 1051(c) | 1.31(c) |
| 3000                  | 891(b)                                                                                                | 1.11(b) | 924(b) | 1.19(b) | 957(b) | 1.26(b) | 991(c) | 1.34(c) | 1023(c) | 1.42(c) | 1053(c) | 1.50(c) | 1083(d) | 1.57(d) | 1113(d) | 1.65(d) |

<sup>6</sup> Includes wet coil, no filter

**Table 128. Fan performance 7.5 tons GEH090 (includes wet coil, no filter) (continued)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5     |         | 0.6     |         | 0.7     |         | 0.8     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 3300                  | 975(b)                                                                                                | 1.47(b) | 1003(d) | 1.54(d) | 1033(d) | 1.63(d) | 1064(d) | 1.71(d) | 1095(d) | 1.80(d) | 1124(d) | 1.89(d) | 1152(d) | 1.97(d) | 1179(e) | 2.06(e) |
| 3600                  | 1059(d)                                                                                               | 1.89(d) | 1084(d) | 1.97(d) | 1111(e) | 2.06(e) | 1140(e) | 2.15(e) | 1168(e) | 2.25(e) | 1196(e) | 2.35(e) | 1222(e) | 2.44(e) | 1248(e) | 2.53(e) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                       | 0.9                                                                                                   |         | 1.0     |         | 1.1     |         | 1.2     |         | 1.3     |         | 1.4     |         | 1.5     |         |         |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |         |         |
| 2400                  | 1026(c)                                                                                               | 1.09(c) | 1059(c) | 1.16(c) | 1091(c) | 1.23(c) | 1123(c) | 1.30(c) | 1154(c) | 1.37(c) | 1185(c) | 1.45(c) | 1217(d) | 1.53(d) |         |         |
| 2700                  | 1082(c)                                                                                               | 1.38(c) | 1113(c) | 1.45(c) | 1143(d) | 1.53(d) | 1172(d) | 1.60(d) | 1202(d) | 1.68(d) | 1230(d) | 1.76(d) | 1257(d) | 1.83(d) |         |         |
| 3000                  | 1143(d)                                                                                               | 1.73(d) | 1171(d) | 1.81(d) | 1199(d) | 1.89(d) | 1228(d) | 1.97(d) | 1255(e) | 2.05(e) | 1281(e) | 2.13(e) | 1308(e) | 2.21(e) |         |         |
| 3300                  | 1206(e)                                                                                               | 2.14(e) | 1233(e) | 2.22(e) | 1259(e) | 2.31(e) | 1286(e) | 2.40(e) | 1312(e) | 2.49(e) | 1337(e) | 2.57(e) | 1362(e) | 2.66(e) |         |         |
| 3600                  | 1273(e)                                                                                               | 2.62(e) | 1298(e) | 2.71(e) | 1323(e) | 2.81(e) | 1348(e) | 2.90(e) | 1372(e) | 2.99(e) | —       | —       | —       | —       |         |         |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (a)                      | A                  | 1               |
| (b)                      | B                  | 2               |
| (c)                      | C                  | 3               |
| (d)                      | D                  | 4               |
| (e)                      | E                  | 5               |

**Figure 21. Fan performance curve (top supply) 7.5 tons GEV090<sup>7</sup>**

<sup>7</sup> Includes wet coil, no filter

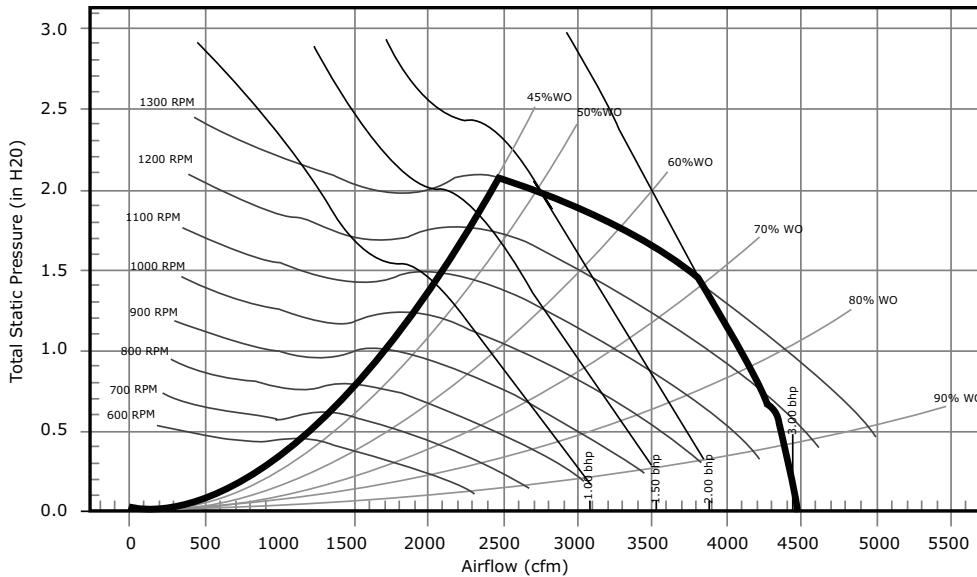


## Unit Fan Performance

**Table 129. Fan performance (top supply) 7.5 tons GEV090 (includes wet coil, no filter)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5     |         | 0.6     |         | 0.7     |         | 0.8     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 2400                  | 655(a)                                                                                                | 0.44(a) | 703(a)  | 0.49(a) | 748(a)  | 0.54(a) | 790(a)  | 0.59(a) | 830(a)  | 0.64(a) | 868(b)  | 0.70(b) | 905(b)  | 0.75(b) | 941(b)  | 0.81(b) |
| 2700                  | 725(a)                                                                                                | 0.61(a) | 768(a)  | 0.66(a) | 809(a)  | 0.72(a) | 849(b)  | 0.78(b) | 886(b)  | 0.84(b) | 922(b)  | 0.90(b) | 957(b)  | 0.96(b) | 990(c)  | 1.02(c) |
| 3000                  | 797(a)                                                                                                | 0.82(a) | 836(a)  | 0.88(a) | 873(b)  | 0.94(b) | 910(c)  | 1.01(c) | 945(c)  | 1.07(c) | 979(c)  | 1.14(c) | 1012(c) | 1.20(c) | 1043(d) | 1.27(d) |
| 3300                  | 869(c)                                                                                                | 1.07(c) | 904(c)  | 1.14(c) | 939(c)  | 1.21(c) | 973(c)  | 1.28(c) | 1006(c) | 1.35(c) | 1039(c) | 1.43(c) | 1069(d) | 1.50(d) | 1099(e) | 1.57(e) |
| 3600                  | 942(c)                                                                                                | 1.38(c) | 974(c)  | 1.45(c) | 1007(e) | 1.53(e) | 1038(e) | 1.61(e) | 1069(e) | 1.68(e) | 1099(e) | 1.76(e) | 1129(e) | 1.84(e) | 1157(e) | 1.92(e) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                       | 0.9                                                                                                   |         | 1.0     |         | 1.1     |         | 1.2     |         | 1.3     |         | 1.4     |         | 1.5     |         |         |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |         |         |
| 2400                  | 977(b)                                                                                                | 0.86(b) | 1012(b) | 0.92(b) | 1045(b) | 0.98(b) | 1078(d) | 1.04(d) | 1111(d) | 1.11(d) | 1144(d) | 1.17(d) | 1177(d) | 1.24(d) |         |         |
| 2700                  | 1023(c)                                                                                               | 1.08(c) | 1055(d) | 1.14(d) | 1087(d) | 1.21(d) | 1118(d) | 1.27(d) | 1147(d) | 1.34(d) | 1178(d) | 1.41(d) | 1207(d) | 1.47(d) |         |         |
| 3000                  | 1074(d)                                                                                               | 1.33(d) | 1104(d) | 1.40(d) | 1133(d) | 1.47(d) | 1162(e) | 1.54(e) | 1191(e) | 1.61(e) | 1219(e) | 1.68(e) | 1246(e) | 1.76(e) |         |         |
| 3300                  | 1128(e)                                                                                               | 1.64(e) | 1157(e) | 1.71(e) | 1184(e) | 1.79(e) | 1211(e) | 1.86(e) | 1238(e) | 1.94(e) | 1265(f) | 2.01(f) | 1291(f) | 2.09(f) |         |         |
| 3600                  | 1185(e)                                                                                               | 1.99(e) | 1212(f) | 2.07(f) | 1239(f) | 2.15(f) | 1264(f) | 2.23(f) | 1290(f) | 2.31(f) | 1315(f) | 2.39(f) | 1340(f) | 2.48(f) |         |         |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (a)                      | A                  | 1               |
| (b)                      | B                  | 2               |
| (c)                      | C                  | 3               |
| (d)                      | D                  | 4               |
| (e)                      | E                  | 5               |
| (f)                      | F                  | 6               |

**Figure 22. Fan performance curve (front/back supply) 7.5 tons GEV090<sup>8</sup>**

**Table 130. Fan performance (front/back supply) 7.5 tons GEV090 (includes wet coil, no filter)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5     |         | 0.6     |         | 0.7     |         | 0.8     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 2400                  | 620(a)                                                                                                | 0.47(a) | 666(a)  | 0.53(a) | 709(a)  | 0.58(a) | 750(a)  | 0.64(a) | 790(a)  | 0.70(a) | 828(a)  | 0.76(a) | 864(a)  | 0.82(a) | 900(a)  | 0.88(a) |
| 2700                  | 687(a)                                                                                                | 0.66(a) | 728(a)  | 0.72(a) | 767(a)  | 0.78(a) | 805(a)  | 0.84(a) | 842(a)  | 0.91(a) | 877(a)  | 0.97(a) | 912(c)  | 1.04(c) | 945(c)  | 1.11(c) |
| 3000                  | 754(a)                                                                                                | 0.88(a) | 792(a)  | 0.95(a) | 828(b)  | 1.02(b) | 863(b)  | 1.09(b) | 897(b)  | 1.16(b) | 930(c)  | 1.23(c) | 962(c)  | 1.31(c) | 993(c)  | 1.38(c) |
| 3300                  | 822(b)                                                                                                | 1.16(b) | 857(b)  | 1.24(b) | 890(b)  | 1.31(b) | 922(c)  | 1.39(c) | 954(c)  | 1.46(c) | 984(d)  | 1.54(d) | 1015(d) | 1.62(d) | 1044(d) | 1.70(d) |
| 3600                  | 891(b)                                                                                                | 1.49(b) | 922(d)  | 1.57(d) | 954(d)  | 1.66(d) | 984(d)  | 1.74(d) | 1013(d) | 1.82(d) | 1042(d) | 1.90(d) | 1070(d) | 1.98(d) | 1098(e) | 2.07(e) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                       | 0.9                                                                                                   |         | 1.0     |         | 1.1     |         | 1.2     |         | 1.3     |         | 1.4     |         | 1.5     |         |         |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |         |         |
| 2400                  | 934(a)                                                                                                | 0.95(a) | 966(c)  | 1.01(c) | 999(c)  | 1.07(c) | 1031(c) | 1.13(c) | 1063(c) | 1.19(c) | 1093(c) | 1.25(c) | 1124(c) | 1.31(c) |         |         |
| 2700                  | 977(c)                                                                                                | 1.18(c) | 1008(c) | 1.25(c) | 1039(c) | 1.32(c) | 1068(c) | 1.39(c) | 1098(c) | 1.46(c) | 1126(d) | 1.53(d) | 1154(d) | 1.59(d) |         |         |
| 3000                  | 1024(c)                                                                                               | 1.46(c) | 1053(d) | 1.53(d) | 1083(d) | 1.61(d) | 1111(d) | 1.69(d) | 1138(d) | 1.77(d) | 1166(d) | 1.84(d) | 1192(d) | 1.92(d) |         |         |
| 3300                  | 1074(d)                                                                                               | 1.78(d) | 1102(d) | 1.86(d) | 1129(d) | 1.95(d) | 1156(e) | 2.03(e) | 1182(e) | 2.12(e) | 1208(e) | 2.20(e) | 1233(e) | 2.28(e) |         |         |
| 3600                  | 1125(e)                                                                                               | 2.16(e) | 1152(e) | 2.25(e) | 1178(e) | 2.34(e) | 1204(e) | 2.43(e) | 1230(e) | 2.52(e) | 1255(e) | 2.61(e) | 1279(e) | 2.70(e) |         |         |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (a)                      | A                  | 1               |
| (b)                      | B                  | 2               |
| (c)                      | C                  | 3               |
| (d)                      | D                  | 4               |
| (e)                      | E                  | 5               |

<sup>8</sup>. Includes wet coil, no filter



## Unit Fan Performance

Figure 23. Fan performance curve 10 tons GEH120<sup>9</sup>

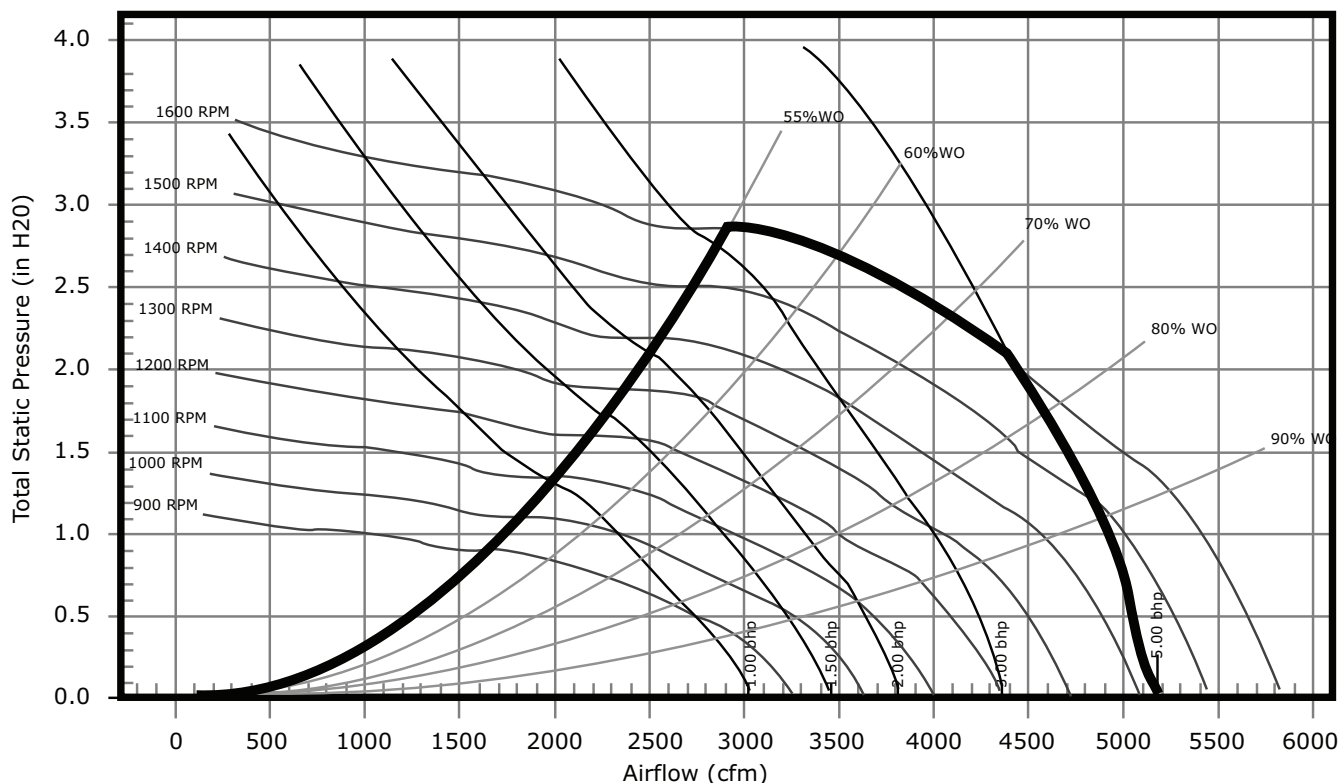


Table 131. Fan performance 10 tons GEH120 (includes wet coil, no filter)

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5     |         | 0.6     |         | 0.7     |         | 0.8     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 3200                  | 897(a)                                                                                                | 1.23(a) | 916(a)  | 1.27(a) | 935(a)  | 1.31(a) | 958(a)  | 1.36(a) | 987(a)  | 1.43(a) | 1018(b) | 1.51(b) | 1051(b) | 1.60(b) | 1081(b) | 1.68(b) |
| 3600                  | 1005(b)                                                                                               | 1.74(b) | 1022(b) | 1.78(b) | 1038(b) | 1.83(b) | 1055(b) | 1.87(b) | 1076(b) | 1.94(b) | 1102(c) | 2.01(c) | 1129(c) | 2.10(c) | 1158(c) | 2.20(c) |
| 4000                  | 1114(c)                                                                                               | 2.37(c) | 1128(c) | 2.42(c) | 1143(c) | 2.47(c) | 1158(c) | 2.52(c) | 1173(c) | 2.57(c) | 1192(c) | 2.64(c) | 1214(c) | 2.72(c) | 1238(c) | 2.82(c) |
| 4400                  | 1222(e)                                                                                               | 3.15(e) | 1235(e) | 3.20(e) | 1249(e) | 3.26(e) | 1262(e) | 3.31(e) | 1276(e) | 3.37(e) | 1290(e) | 3.42(e) | 1306(e) | 3.49(e) | 1326(e) | 3.58(e) |
| 4800                  | 1331(e)                                                                                               | 4.08(e) | 1343(f) | 4.14(f) | 1355(f) | 4.19(f) | 1367(f) | 4.25(f) | 1380(f) | 4.31(f) | 1392(f) | 4.37(f) | 1405(f) | 4.43(f) | 1419(f) | 4.50(f) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                       | 0.9                                                                                                   |         | 1.0     |         | 1.1     |         | 1.2     |         | 1.3     |         | 1.4     |         | 1.5     |         | 1.6     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 3200                  | 1109(b)                                                                                               | 1.76(b) | 1138(b) | 1.84(b) | 1164(b) | 1.92(b) | 1192(c) | 2.01(c) | 1219(c) | 2.09(c) | 1246(c) | 2.17(c) | 1272(c) | 2.25(c) | 1298(c) | 2.34(c) |
| 3600                  | 1186(c)                                                                                               | 2.29(c) | 1213(c) | 2.39(c) | 1239(c) | 2.48(c) | 1264(c) | 2.57(c) | 1288(c) | 2.65(c) | 1312(c) | 2.74(c) | 1336(f) | 2.83(f) | 1361(f) | 2.93(f) |
| 4000                  | 1264(c)                                                                                               | 2.92(c) | 1289(e) | 3.02(e) | 1315(f) | 3.13(f) | 1340(f) | 3.24(f) | 1363(f) | 3.34(f) | 1385(f) | 3.43(f) | 1408(f) | 3.54(f) | 1429(f) | 3.63(f) |
| 4400                  | 1347(e)                                                                                               | 3.68(e) | 1369(f) | 3.78(f) | 1392(f) | 3.90(f) | 1416(f) | 4.02(f) | 1440(f) | 4.13(f) | 1463(f) | 4.25(f) | 1484(f) | 4.36(f) | 1505(f) | 4.47(f) |
| 4800                  | 1437(e)                                                                                               | 4.60(e) | 1455(f) | 4.70(f) | 1475(f) | 4.81(f) | 1496(f) | 4.93(f) | —       | —       | —       | —       | —       | —       | —       | —       |

<sup>9</sup> Includes wet coil, no filter

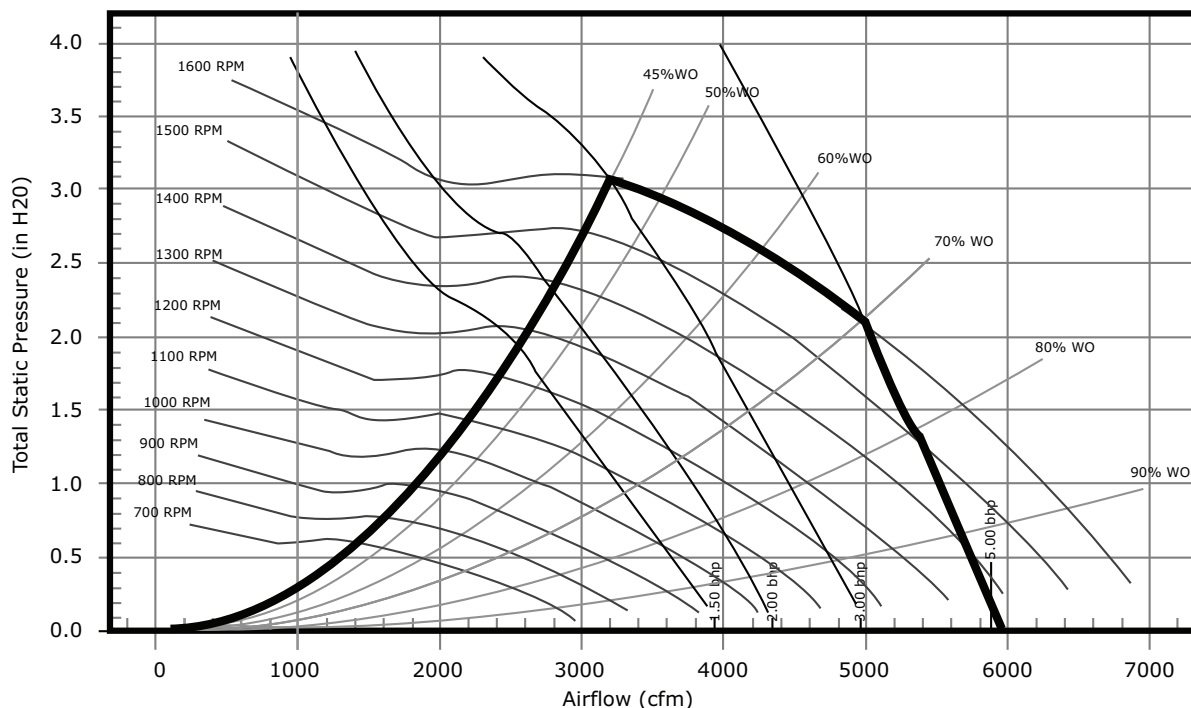


**Table 131. Fan performance 10 tons GEH120 (includes wet coil, no filter) (continued)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |     |     |     |     |     |     |     |     |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5 |     | 0.6 |     | 0.7 |     | 0.8 |     |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |     |     |     |     |     |     |     |     |
|                       | 1.7                                                                                                   |         | 1.8     |         | 1.9     |         | 2.0     |         |     |     |     |     |     |     |     |     |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |     |     |     |     |     |     |     |     |
| 3200                  | 1323(d)                                                                                               | 2.42(d) | 1349(d) | 2.51(d) | 1374(d) | 2.60(d) | 1398(d) | 2.68(d) |     |     |     |     |     |     |     |     |
| 3600                  | 1384(f)                                                                                               | 3.02(f) | 1408(f) | 3.12(f) | 1431(f) | 3.21(f) | 1454(f) | 3.30(f) |     |     |     |     |     |     |     |     |
| 4000                  | 1452(f)                                                                                               | 3.74(f) | 1474(f) | 3.84(f) | 1496(f) | 3.94(f) | 1517(f) | 4.04(f) |     |     |     |     |     |     |     |     |
| 4400                  | 1526(f)                                                                                               | 4.58(f) | 1546(f) | 4.69(f) | 1565(f) | 4.80(f) | 1586(f) | 4.91(f) |     |     |     |     |     |     |     |     |
| 4800                  | —                                                                                                     | —       | —       | —       | —       | —       | —       | —       |     |     |     |     |     |     |     |     |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (a)                      | A                  | 1               |
| (b)                      | B                  | 2               |
| (c)                      | C                  | 3               |
| (d)                      | D                  | 4               |
| (e)                      | E                  | 5               |
| (f)                      | F                  | 6               |

**Figure 24. Fan performance curve (top supply) 10 tons GEV120<sup>10</sup>**



<sup>10</sup> Includes wet coil, no filter



## Unit Fan Performance

**Table 132. Fan performance (top supply) 10 tons GEV120 (includes wet coil, no filter)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5     |         | 0.6     |         | 0.7     |         | 0.8     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 3200                  | 759(a)                                                                                                | 0.83(a) | 797(a)  | 0.89(a) | 833(a)  | 0.95(a) | 868(a)  | 1.01(a) | 903(a)  | 1.08(a) | 937(a)  | 1.16(a) | 970(a)  | 1.22(a) | 1003(a) | 1.29(a) |
| 3600                  | 845(a)                                                                                                | 1.16(a) | 878(a)  | 1.23(a) | 912(a)  | 1.30(a) | 944(a)  | 1.36(a) | 975(a)  | 1.44(a) | 1006(b) | 1.51(b) | 1036(c) | 1.59(c) | 1066(c) | 1.68(c) |
| 4000                  | 932(b)                                                                                                | 1.58(b) | 962(b)  | 1.66(b) | 992(b)  | 1.73(b) | 1021(b) | 1.80(b) | 1050(b) | 1.87(b) | 1079(b) | 1.95(b) | 1106(d) | 2.04(d) | 1134(d) | 2.13(d) |
| 4400                  | 1019(d)                                                                                               | 2.08(d) | 1046(d) | 2.17(d) | 1074(d) | 2.25(d) | 1101(d) | 2.33(d) | 1128(d) | 2.41(d) | 1154(d) | 2.49(d) | 1180(d) | 2.58(d) | 1205(d) | 2.67(d) |
| 4800                  | 1108(d)                                                                                               | 2.69(d) | 1132(d) | 2.78(d) | 1157(d) | 2.87(d) | 1182(d) | 2.96(d) | 1207(f) | 3.05(f) | 1232(f) | 3.14(f) | 1256(f) | 3.22(f) | 1279(f) | 3.31(f) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                       | 0.9                                                                                                   |         | 1.0     |         | 1.1     |         | 1.2     |         | 1.3     |         | 1.4     |         | 1.5     |         | 1.6     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 3200                  | 1035(a)                                                                                               | 1.35(a) | 1065(a) | 1.42(a) | 1095(a) | 1.49(a) | 1124(c) | 1.56(c) | 1153(c) | 1.63(c) | 1181(c) | 1.70(c) | 1208(c) | 1.77(c) | 1234(c) | 1.84(c) |
| 3600                  | 1096(c)                                                                                               | 1.75(c) | 1125(c) | 1.82(c) | 1154(c) | 1.89(c) | 1181(c) | 1.97(c) | 1207(d) | 2.04(d) | 1234(d) | 2.13(d) | 1260(d) | 2.21(d) | 1285(d) | 2.29(d) |
| 4000                  | 1161(d)                                                                                               | 2.22(d) | 1188(d) | 2.32(d) | 1215(d) | 2.40(d) | 1241(d) | 2.47(d) | 1266(d) | 2.55(d) | 1293(d) | 2.63(d) | 1316(d) | 2.71(d) | 1341(e) | 2.81(e) |
| 4400                  | 1230(d)                                                                                               | 2.76(d) | 1255(d) | 2.87(d) | 1280(d) | 2.97(d) | 1304(f) | 3.07(f) | 1329(f) | 3.16(f) | 1353(g) | 3.25(g) | 1376(g) | 3.33(g) | 1399(g) | 3.41(g) |
| 4800                  | 1303(f)                                                                                               | 3.41(f) | 1326(f) | 3.51(f) | 1349(f) | 3.62(f) | 1371(g) | 3.73(g) | 1394(g) | 3.85(g) | 1417(g) | 3.96(g) | 1439(g) | 4.06(g) | 1461(g) | 4.16(g) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                       | 1.7                                                                                                   |         | 1.8     |         | 1.9     |         | 2.0     |         |         |         |         |         |         |         |         |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |         |         |         |         |         |         |         |         |
| 3200                  | 1261(c)                                                                                               | 1.91(c) | 1286(c) | 1.98(c) | 1313(d) | 2.06(d) | 1336(e) | 2.13(e) |         |         |         |         |         |         |         |         |
| 3600                  | 1310(d)                                                                                               | 2.37(d) | 1335(d) | 2.45(d) | 1359(e) | 2.52(e) | 1382(e) | 2.60(e) |         |         |         |         |         |         |         |         |
| 4000                  | 1365(e)                                                                                               | 2.90(e) | 1387(e) | 2.99(e) | 1411(g) | 3.08(g) | 1434(g) | 3.16(g) |         |         |         |         |         |         |         |         |
| 4400                  | 1422(g)                                                                                               | 3.50(g) | 1445(g) | 3.60(g) | 1467(g) | 3.69(g) | 1488(g) | 3.79(g) |         |         |         |         |         |         |         |         |
| 4800                  | 1483(g)                                                                                               | 4.25(g) | 1505(g) | 4.34(g) | 1525(g) | 4.43(g) | 1547(g) | 4.52(g) |         |         |         |         |         |         |         |         |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (a)                      | A                  | 1               |
| (b)                      | B                  | 2               |
| (c)                      | C                  | 3               |
| (d)                      | D                  | 4               |
| (e)                      | E                  | 5               |
| (f)                      | F                  | 6               |
| (g)                      | G                  | 7               |

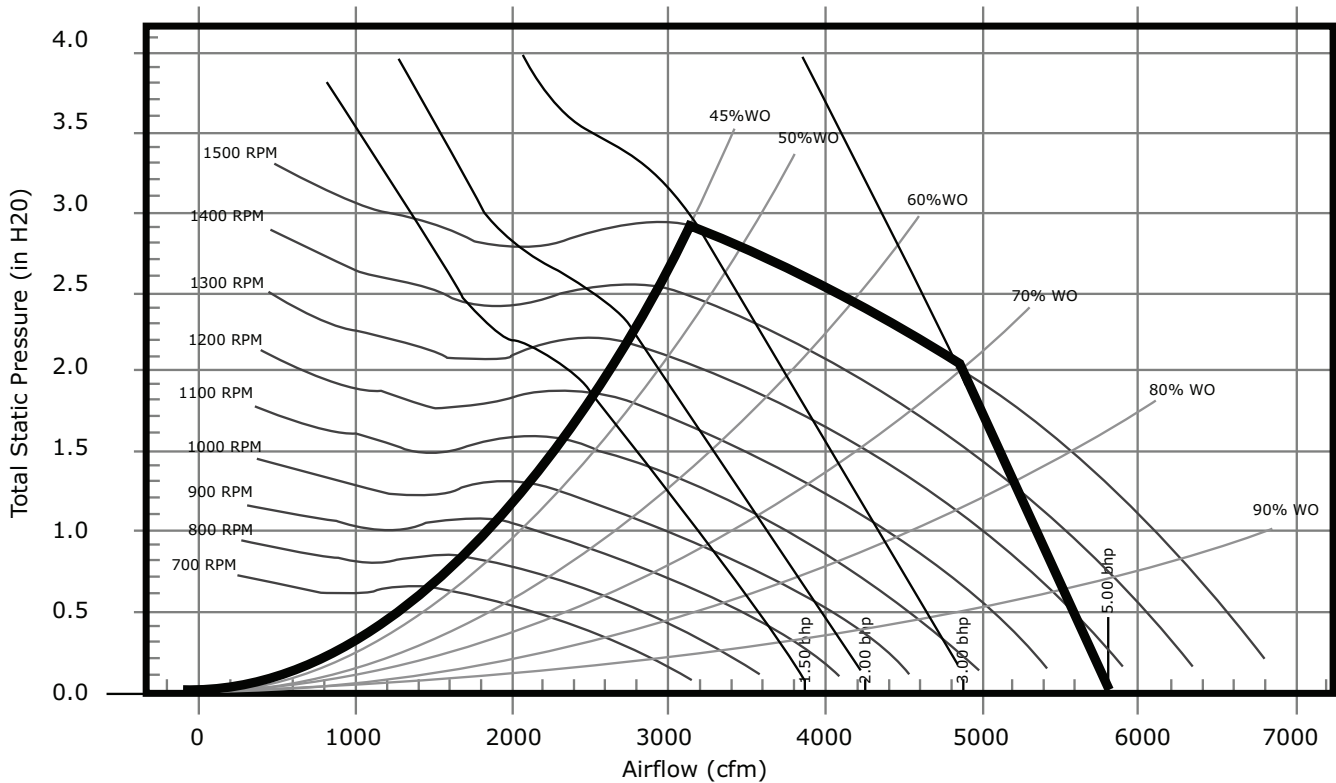
Figure 25. Fan performance curve (front/back supply) 10 tons GEV120<sup>11</sup>


Table 133. Fan performance (front/back supply) 10 tons GEV120 (includes wet coil, no filter)

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5     |         | 0.6     |         | 0.7     |         | 0.8     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 3200                  | 727(a)                                                                                                | 0.90(a) | 761(a)  | 0.96(a) | 794(a)  | 1.03(a) | 829(a)  | 1.10(a) | 863(a)  | 1.17(a) | 896(a)  | 1.24(a) | 929(a)  | 1.31(a) | 962(a)  | 1.38(a) |
| 3600                  | 809(a)                                                                                                | 1.26(a) | 840(a)  | 1.33(a) | 870(a)  | 1.41(a) | 900(a)  | 1.48(a) | 931(b)  | 1.56(b) | 961(b)  | 1.64(b) | 991(b)  | 1.71(b) | 1021(c) | 1.79(c) |
| 4000                  | 893(b)                                                                                                | 1.71(b) | 920(b)  | 1.79(b) | 947(b)  | 1.87(b) | 974(b)  | 1.96(b) | 1001(d) | 2.04(d) | 1029(d) | 2.12(d) | 1057(d) | 2.21(d) | 1084(d) | 2.30(d) |
| 4400                  | 977(d)                                                                                                | 2.25(d) | 1002(d) | 2.34(d) | 1027(d) | 2.44(d) | 1051(d) | 2.53(d) | 1076(d) | 2.62(d) | 1100(d) | 2.71(d) | 1126(d) | 2.80(d) | 1151(d) | 2.90(d) |
| 4800                  | 1061(d)                                                                                               | 2.91(d) | 1084(f) | 3.01(f) | 1107(f) | 3.11(f) | 1130(f) | 3.21(f) | 1152(f) | 3.30(f) | 1175(f) | 3.40(f) | 1198(f) | 3.51(f) | 1220(f) | 3.61(f) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                       | 0.9                                                                                                   |         | 1.0     |         | 1.1     |         | 1.2     |         | 1.3     |         | 1.4     |         | 1.5     |         | 1.6     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 3200                  | 993(a)                                                                                                | 1.45(a) | 1023(c) | 1.52(c) | 1053(c) | 1.60(c) | 1081(c) | 1.67(c) | 1109(c) | 1.74(c) | 1136(c) | 1.81(c) | 1162(c) | 1.88(c) | 1189(c) | 1.96(c) |
| 3600                  | 1049(c)                                                                                               | 1.87(c) | 1078(c) | 1.95(c) | 1106(d) | 2.03(d) | 1133(d) | 2.11(d) | 1160(d) | 2.20(d) | 1187(d) | 2.28(d) | 1212(d) | 2.36(d) | 1237(d) | 2.44(d) |
| 4000                  | 1111(d)                                                                                               | 2.38(d) | 1138(d) | 2.47(d) | 1163(d) | 2.56(d) | 1190(d) | 2.65(d) | 1214(d) | 2.74(d) | 1239(d) | 2.83(d) | 1264(e) | 2.92(e) | 1288(e) | 3.01(e) |
| 4400                  | 1176(d)                                                                                               | 2.99(d) | 1201(f) | 3.09(f) | 1225(f) | 3.18(f) | 1248(f) | 3.28(f) | 1273(g) | 3.38(g) | 1296(g) | 3.47(g) | 1319(g) | 3.57(g) | 1343(g) | 3.67(g) |
| 4800                  | 1243(f)                                                                                               | 3.71(f) | 1266(g) | 3.81(g) | 1289(g) | 3.91(g) | 1311(g) | 4.02(g) | 1334(g) | 4.12(g) | 1356(g) | 4.23(g) | 1378(g) | 4.33(g) | 1399(g) | 4.44(g) |

<sup>11</sup> Includes wet coil, no filter



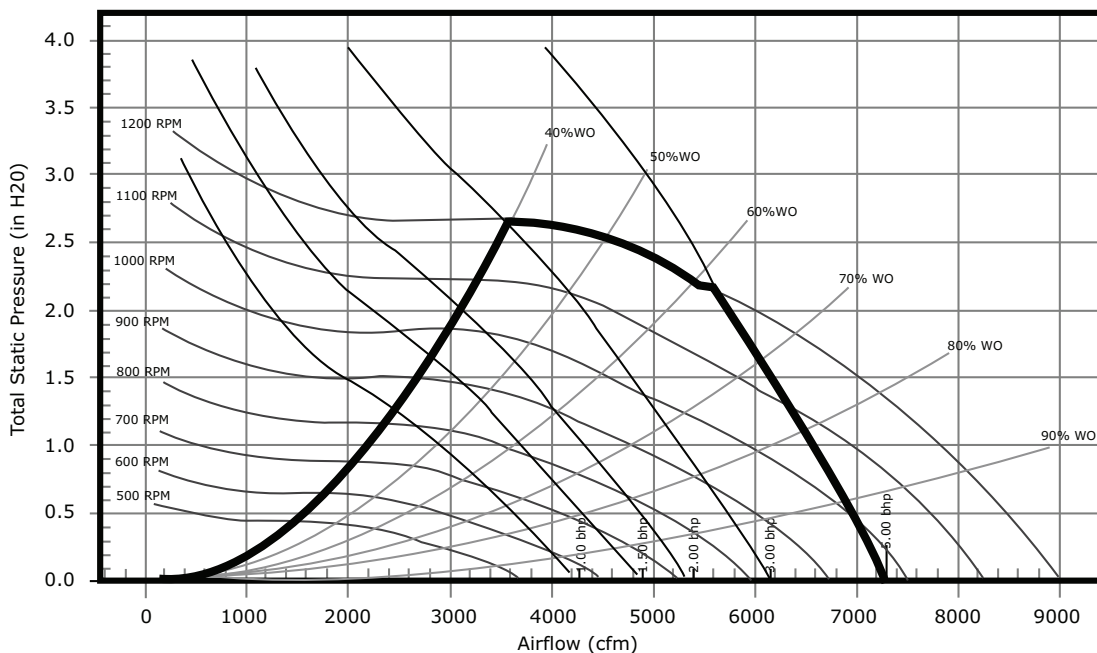
## Unit Fan Performance

**Table 133. Fan performance (front/back supply) 10 tons GEV120 (includes wet coil, no filter) (continued)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |     |     |     |     |     |     |     |     |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5 |     | 0.6 |     | 0.7 |     | 0.8 |     |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |     |     |     |     |     |     |     |     |
|                       | 1.7                                                                                                   |         | 1.8     |         | 1.9     |         | 2.0     |         |     |     |     |     |     |     |     |     |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |     |     |     |     |     |     |     |     |
| 3200                  | 1214(d)                                                                                               | 2.03(d) | 1239(d) | 2.11(d) | 1264(e) | 2.18(e) | 1289(e) | 2.27(e) |     |     |     |     |     |     |     |     |
| 3600                  | 1260(e)                                                                                               | 2.52(e) | 1284(e) | 2.60(e) | 1308(e) | 2.68(e) | 1332(e) | 2.77(e) |     |     |     |     |     |     |     |     |
| 4000                  | 1311(g)                                                                                               | 3.10(g) | 1335(g) | 3.19(g) | 1357(g) | 3.28(g) | 1378(g) | 3.37(g) |     |     |     |     |     |     |     |     |
| 4400                  | 1365(g)                                                                                               | 3.77(g) | 1387(g) | 3.87(g) | 1409(g) | 3.97(g) | 1430(g) | 4.07(g) |     |     |     |     |     |     |     |     |
| 4800                  | 1422(g)                                                                                               | 4.55(g) | 1443(g) | 4.66(g) | 1463(g) | 4.76(g) | 1483(g) | 4.87(g) |     |     |     |     |     |     |     |     |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (a)                      | A                  | 1               |
| (b)                      | B                  | 2               |
| (c)                      | C                  | 3               |
| (d)                      | D                  | 4               |
| (e)                      | E                  | 5               |
| (f)                      | F                  | 6               |
| (g)                      | G                  | 7               |

**Figure 26. Fan performance curve 12.5 tons GEH150<sup>12</sup>**



<sup>12</sup> Includes wet coil, no filter

**Table 134. Fan performance 12.5 tons GEH150 (includes wet coil, no filter)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5     |         | 0.6     |         | 0.7     |         | 0.8     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 4000                  | 559(a)                                                                                                | 0.89(a) | 590(a)  | 0.96(a) | 622(a)  | 1.05(a) | 654(a)  | 1.14(a) | 685(a)  | 1.23(a) | 717(a)  | 1.32(a) | 749(a)  | 1.42(a) | 779(b)  | 1.52(b) |
| 4500                  | 622(a)                                                                                                | 1.24(a) | 648(a)  | 1.33(a) | 677(a)  | 1.42(a) | 706(b)  | 1.52(b) | 734(b)  | 1.62(b) | 761(b)  | 1.72(b) | 790(b)  | 1.82(b) | 819(b)  | 1.93(b) |
| 5000                  | 686(b)                                                                                                | 1.69(b) | 709(b)  | 1.77(b) | 734(b)  | 1.87(b) | 760(b)  | 1.98(b) | 786(c)  | 2.09(c) | 811(c)  | 2.20(c) | 836(c)  | 2.31(c) | 861(c)  | 2.42(c) |
| 5500                  | 750(c)                                                                                                | 2.23(c) | 771(c)  | 2.32(c) | 793(c)  | 2.42(c) | 816(c)  | 2.53(c) | 840(c)  | 2.65(c) | 863(c)  | 2.77(c) | 886(c)  | 2.89(c) | 909(e)  | 3.02(e) |
| 6000                  | 815(c)                                                                                                | 2.88(c) | 833(c)  | 2.97(c) | 853(e)  | 3.08(e) | 874(e)  | 3.20(e) | 895(e)  | 3.32(e) | 917(e)  | 3.45(e) | 939(e)  | 3.58(e) | 960(e)  | 3.71(e) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                       | 0.9                                                                                                   |         | 1.0     |         | 1.1     |         | 1.2     |         | 1.3     |         | 1.4     |         | 1.5     |         | 1.6     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 4000                  | 807(b)                                                                                                | 1.61(b) | 833(b)  | 1.71(b) | 857(b)  | 1.80(b) | 881(b)  | 1.89(b) | 905(b)  | 1.98(b) | 928(d)  | 2.07(d) | 951(d)  | 2.16(d) | 974(d)  | 2.26(d) |
| 4500                  | 846(c)                                                                                                | 2.04(c) | 872(c)  | 2.15(c) | 898(c)  | 2.26(c) | 921(d)  | 2.36(d) | 944(d)  | 2.46(d) | 965(d)  | 2.56(d) | 987(d)  | 2.66(d) | 1009(d) | 2.77(d) |
| 5000                  | 887(c)                                                                                                | 2.54(c) | 912(d)  | 2.66(d) | 937(d)  | 2.78(d) | 962(d)  | 2.91(d) | 985(e)  | 3.03(e) | 1007(e) | 3.14(e) | 1027(f) | 3.26(f) | 1047(f) | 3.37(f) |
| 5500                  | 932(e)                                                                                                | 3.14(e) | 954(e)  | 3.26(e) | 978(e)  | 3.40(e) | 1002(e) | 3.53(e) | 1024(f) | 3.66(f) | 1047(f) | 3.80(f) | 1068(f) | 3.93(f) | 1090(f) | 4.07(f) |
| 6000                  | 981(e)                                                                                                | 3.85(e) | 1002(e) | 3.98(e) | 1022(f) | 4.11(f) | 1044(f) | 4.26(f) | 1065(f) | 4.40(f) | 1086(f) | 4.54(f) | 1108(f) | 4.69(f) | 1128(f) | 4.83(f) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                       | 1.7                                                                                                   |         | 1.8     |         | 1.9     |         | 2.0     |         |         |         |         |         |         |         |         |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |         |         |         |         |         |         |         |         |
| 4000                  | 996(d)                                                                                                | 2.36(d) | 1018(d) | 2.46(d) | 1040(d) | 2.57(d) | 1061(d) | 2.67(d) |         |         |         |         |         |         |         |         |
| 4500                  | 1030(d)                                                                                               | 2.88(d) | 1049(d) | 2.97(d) | 1069(f) | 3.08(f) | 1090(f) | 3.19(f) |         |         |         |         |         |         |         |         |
| 5000                  | 1067(f)                                                                                               | 3.48(f) | 1087(f) | 3.60(f) | 1106(f) | 3.71(f) | 1125(f) | 3.83(f) |         |         |         |         |         |         |         |         |
| 5500                  | 1109(f)                                                                                               | 4.19(f) | 1127(f) | 4.32(f) | 1146(f) | 4.44(f) | 1164(f) | 4.57(f) |         |         |         |         |         |         |         |         |
| 6000                  | 1148(f)                                                                                               | 4.98(f) | —       | —       | —       | —       | —       | —       |         |         |         |         |         |         |         |         |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (a)                      | A                  | 1               |
| (b)                      | B                  | 2               |
| (c)                      | C                  | 3               |
| (d)                      | D                  | 4               |
| (e)                      | E                  | 5               |
| (f)                      | F                  | 6               |



## Unit Fan Performance

Figure 27. Fan performance curve (top supply) 12.5 tons GEV150<sup>13</sup>

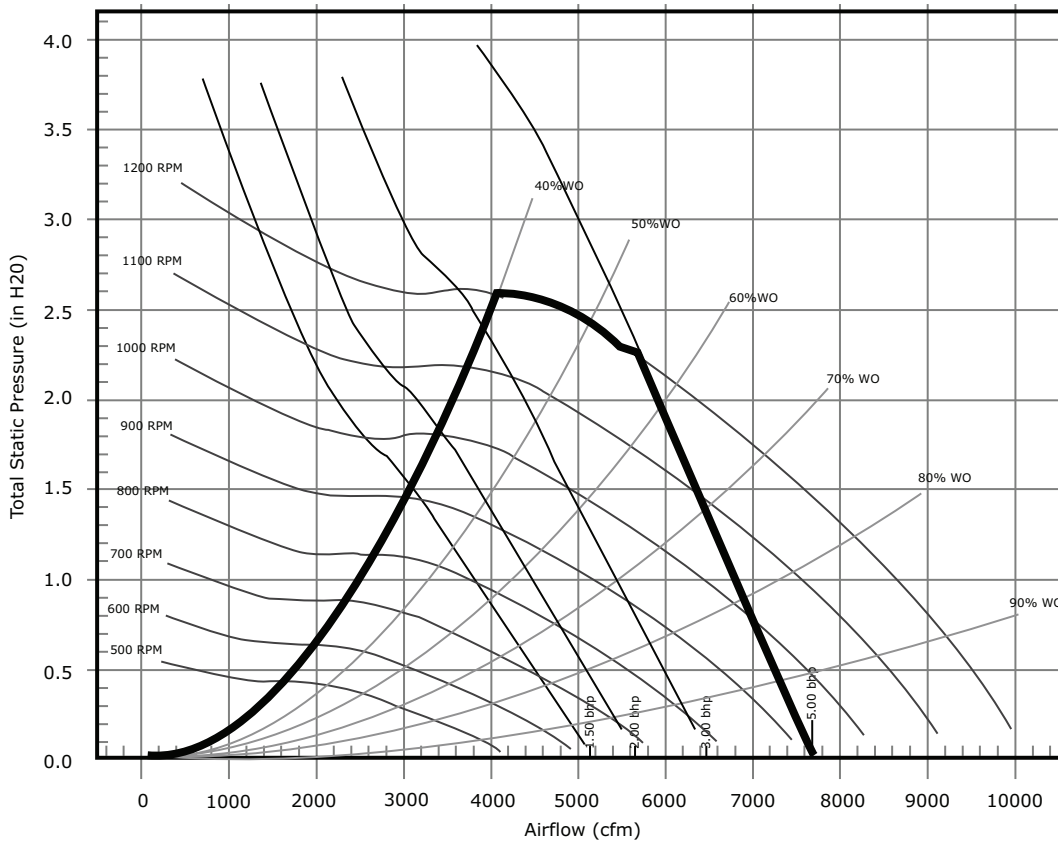


Table 135. Fan performance (top supply) 12.5 tons GEV150 (includes wet coil, no filter)

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |        |         |        |         |        |         |         |         |         |         |         |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|--------|---------|--------|---------|--------|---------|---------|---------|---------|---------|---------|---------|
|                       | 0.1                                                                                                   |         | 0.2    |         | 0.3    |         | 0.4    |         | 0.5     |         | 0.6     |         | 0.7     |         |
|                       | RPM                                                                                                   | BHP     | RPM    | BHP     | RPM    | BHP     | RPM    | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 4000                  | —                                                                                                     | —       | —      | —       | —      | —       | 626(a) | 1.07(a) | 660(a)  | 1.16(a) | 692(a)  | 1.25(a) | 724(a)  | 1.34(a) |
| 4500                  | —                                                                                                     | —       | 607(a) | 1.22(a) | 639(a) | 1.31(a) | 671(a) | 1.41(a) | 702(a)  | 1.52(a) | 733(a)  | 1.62(a) | 762(a)  | 1.72(a) |
| 5000                  | 630(a)                                                                                                | 1.50(a) | 661(a) | 1.62(a) | 690(a) | 1.72(a) | 718(a) | 1.83(a) | 747(a)  | 1.94(a) | 776(a)  | 2.06(a) | 803(b)  | 2.17(b) |
| 5500                  | 686(a)                                                                                                | 1.96(a) | 716(a) | 2.10(a) | 742(b) | 2.22(b) | 768(b) | 2.33(b) | 794(b)  | 2.45(b) | 820(b)  | 2.58(b) | 847(b)  | 2.71(b) |
| 6000                  | 743(b)                                                                                                | 2.52(b) | 771(b) | 2.68(b) | 796(b) | 2.81(b) | 820(b) | 2.94(b) | 844(b)  | 3.06(b) | 868(b)  | 3.19(b) | 892(d)  | 3.33(d) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |        |         |        |         |        |         |         |         |         |         |         |         |
|                       | 0.8                                                                                                   |         | 0.9    |         | 1.0    |         | 1.1    |         | 1.2     |         | 1.3     |         | 1.4     |         |
|                       | RPM                                                                                                   | BHP     | RPM    | BHP     | RPM    | BHP     | RPM    | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 4000                  | 754(a)                                                                                                | 1.43(a) | 783(a) | 1.52(a) | 810(a) | 1.62(a) | 837(a) | 1.72(a) | 864(a)  | 1.81(a) | 890(a)  | 1.90(a) | 915(c)  | 1.99(c) |
| 4500                  | 791(a)                                                                                                | 1.82(a) | 818(a) | 1.92(a) | 845(a) | 2.02(a) | 871(b) | 2.12(b) | 896(b)  | 2.23(b) | 920(b)  | 2.34(b) | 943(c)  | 2.45(c) |
| 5000                  | 830(b)                                                                                                | 2.29(b) | 856(b) | 2.40(b) | 882(b) | 2.51(b) | 906(b) | 2.62(b) | 931(b)  | 2.73(b) | 954(c)  | 2.84(c) | 977(c)  | 2.96(c) |
| 5500                  | 872(b)                                                                                                | 2.83(b) | 897(b) | 2.96(b) | 921(b) | 3.08(b) | 944(d) | 3.21(d) | 967(d)  | 3.33(d) | 990(d)  | 3.45(d) | 1013(d) | 3.57(d) |
| 6000                  | 916(d)                                                                                                | 3.47(d) | 939(d) | 3.61(d) | 962(d) | 3.75(d) | 985(d) | 3.88(d) | 1007(d) | 4.02(d) | 1028(d) | 4.15(d) | 1050(d) | 4.29(d) |

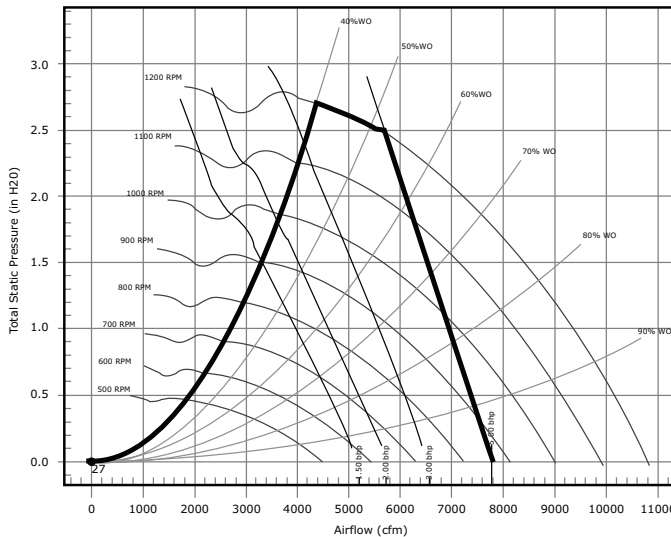
<sup>13</sup> Includes wet coil, no filter

**Table 135. Fan performance (top supply) 12.5 tons GEV150 (includes wet coil, no filter) (continued)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |     |     |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|-----|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5     |         | 0.6     |         | 0.7 |     |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM | BHP |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |     |     |
|                       | 1.5                                                                                                   |         | 1.6     |         | 1.7     |         | 1.8     |         | 1.9     |         | 2.0     |         |     |     |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |     |     |
| 4000                  | 939(c)                                                                                                | 2.09(c) | 963(c)  | 2.19(c) | 987(c)  | 2.29(c) | 1010(c) | 2.39(c) | 1034(c) | 2.50(c) | 1059(c) | 2.61(c) |     |     |
| 4500                  | 967(c)                                                                                                | 2.56(c) | 991(c)  | 2.19(c) | 1013(c) | 2.76(c) | 1035(c) | 2.87(c) | 1057(c) | 2.98(c) | 1077(c) | 3.09(c) |     |     |
| 5000                  | 999(c)                                                                                                | 3.08(c) | 1021(c) | 3.21(c) | 1043(d) | 3.33(d) | 1065(d) | 3.45(d) | 1085(d) | 3.56(d) | 1106(d) | 3.68(d) |     |     |
| 5500                  | 1034(d)                                                                                               | 3.69(d) | 1056(d) | 3.82(d) | 1076(d) | 3.95(d) | 1097(d) | 4.09(d) | 1117(d) | 4.22(d) | 1136(d) | 4.35(d) |     |     |
| 6000                  | 1070(d)                                                                                               | 4.42(d) | 1091(d) | 4.55(d) | 1111(d) | 4.68(d) | 1131(d) | 4.81(d) | —       | —       | —       | —       |     |     |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (a)                      | A                  | 1               |
| (b)                      | B                  | 2               |
| (c)                      | C                  | 3               |
| (d)                      | D                  | 4               |

**Figure 28. Fan performance curve (front/back supply) 12.5 tons GEV150<sup>14</sup>**



**Table 136. Fan performance (front/back supply) 12.5 tons GEV150 (includes wet coil, no filter)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |     |        |         |        |         |        |         |        |         |        |         |        |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|-----|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|
|                       | 0.1                                                                                                   |     | 0.2    |         | 0.3    |         | 0.4    |         | 0.5    |         | 0.6    |         | 0.7    |         |
|                       | RPM                                                                                                   | BHP | RPM    | BHP     | RPM    | BHP     | RPM    | BHP     | RPM    | BHP     | RPM    | BHP     | RPM    | BHP     |
| 4000                  | —                                                                                                     | —   | —      | —       | —      | —       | —      | —       | 626(a) | 1.11(a) | 658(a) | 1.20(a) | 689(a) | 1.28(a) |
| 4500                  | —                                                                                                     | —   | —      | —       | 606(a) | 1.28(a) | 636(a) | 1.37(a) | 666(a) | 1.46(a) | 695(a) | 1.55(a) | 723(a) | 1.64(a) |
| 5000                  | —                                                                                                     | —   | 626(a) | 1.58(a) | 654(a) | 1.68(a) | 681(a) | 1.78(a) | 708(a) | 1.88(a) | 735(a) | 1.98(a) | 761(b) | 2.08(b) |

<sup>14</sup> Includes wet coil, no filter



## Unit Fan Performance

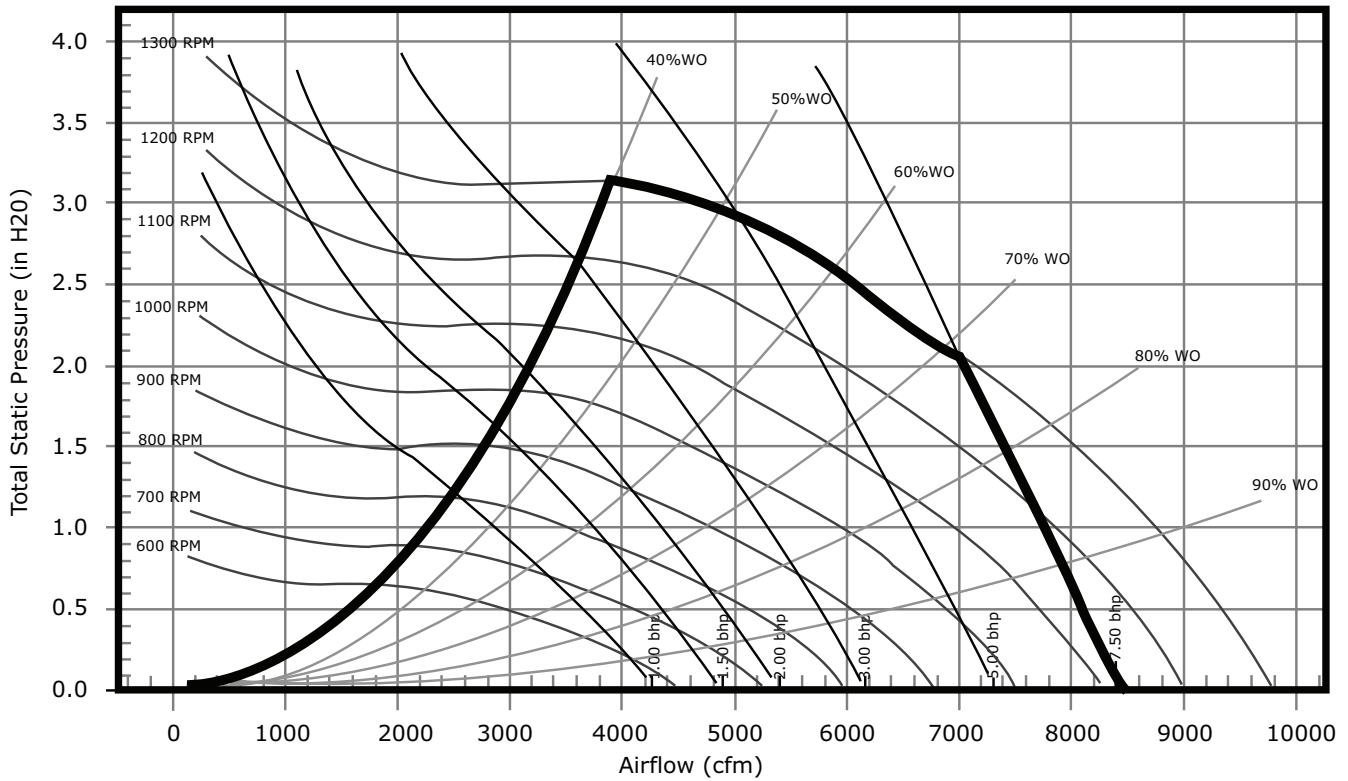
**Table 136. Fan performance (front/back supply) 12.5 tons GEV150 (includes wet coil, no filter) (continued)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |        |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5     |         | 0.6     |         | 0.7    |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM    | BHP     |
| 5500                  | 652(a)                                                                                                | 1.95(a) | 677(b)  | 2.06(b) | 703(b)  | 2.17(b) | 728(b)  | 2.28(b) | 753(b)  | 2.39(b) | 778(b)  | 2.50(b) | 802(b) | 2.61(b) |
| 6000                  | 707(b)                                                                                                | 2.51(b) | 730(b)  | 2.63(b) | 753(b)  | 2.75(b) | 777(b)  | 2.87(b) | 800(b)  | 2.99(b) | —       | —       | —      | —       |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |        |         |
|                       | 0.8                                                                                                   |         | 0.9     |         | 1.0     |         | 1.1     |         | 1.2     |         | 1.3     |         | 1.4    |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM    | BHP     |
| 4000                  | 719(a)                                                                                                | 1.36(a) | 749(a)  | 1.45(a) | 778(a)  | 1.54(a) | 805(a)  | 1.62(a) | 832(a)  | 1.71(a) | 858(a)  | 1.80(a) | 884(a) | 1.89(a) |
| 4500                  | 751(a)                                                                                                | 1.74(a) | 779(a)  | 1.84(a) | 806(a)  | 1.93(a) | 833(b)  | 2.03(b) | 858(b)  | 2.12(b) | 884(b)  | 2.22(b) | 908(c) | 2.32(c) |
| 5000                  | 787(b)                                                                                                | 2.19(b) | 812(b)  | 2.29(b) | 838(b)  | 2.40(b) | 863(b)  | 2.51(b) | 888(c)  | 2.62(c) | 911(c)  | 2.72(c) | 935(c) | 2.83(c) |
| 5500                  | 826(b)                                                                                                | 2.72(b) | 850(b)  | 2.83(b) | 873(b)  | 2.95(b) | 897(d)  | 3.07(d) | 919(d)  | 3.18(d) | 942(d)  | 3.30(d) | 965(d) | 3.42(d) |
| 6000                  | —                                                                                                     | —       | 890(d)  | 3.46(d) | 912(d)  | 3.59(d) | 933(d)  | 3.71(d) | 955(d)  | 3.84(d) | 976(d)  | 3.97(d) | 997(d) | 4.10(d) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |        |         |
|                       | 1.5                                                                                                   |         | 1.6     |         | 1.7     |         | 1.8     |         | 1.9     |         | 2.0     |         |        |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |        |         |
| 4000                  | 910(c)                                                                                                | 1.98(c) | 936(c)  | 2.08(c) | 962(c)  | 2.18(c) | 987(c)  | 2.29(c) | 1011(c) | 2.39(c) | 1035(c) | 2.49(c) |        |         |
| 4500                  | 932(c)                                                                                                | 2.42(c) | 955(c)  | 2.51(c) | 978(c)  | 2.61(c) | 1002(c) | 2.72(c) | 1025(c) | 2.83(c) | 1048(c) | 2.94(c) |        |         |
| 5000                  | 958(c)                                                                                                | 2.93(c) | 980(d)  | 3.04(d) | 1002(d) | 3.15(d) | 1024(d) | 3.25(d) | 1046(d) | 3.37(d) | 1067(d) | 3.48(d) |        |         |
| 5500                  | 987(d)                                                                                                | 3.54(d) | 1009(d) | 3.65(d) | 1030(d) | 3.77(d) | 1050(d) | 3.88(d) | 1071(d) | 4.00(d) | 1091(d) | 4.12(d) |        |         |
| 6000                  | 1017(d)                                                                                               | 4.22(d) | 1038(d) | 4.35(d) | 1059(d) | 4.48(d) | 1078(d) | 4.60(d) | 1099(d) | 4.73(d) | 1118(d) | 4.86(d) |        |         |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (a)                      | A                  | 1               |
| (b)                      | B                  | 2               |
| (c)                      | C                  | 3               |
| (d)                      | D                  | 4               |



**Figure 29. Fan performance curve 15 tons GEH180<sup>15</sup>**



**Table 137. Fan performance 15 tons GEH180 (includes wet coil, no filter)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5     |         | 0.6     |         | 0.7     |         | 0.8     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 4800                  | 660(a)                                                                                                | 1.50(a) | 685(a)  | 1.58(a) | 711(a)  | 1.68(a) | 738(a)  | 1.78(a) | 765(a)  | 1.89(a) | 791(a)  | 1.99(a) | 817(c)  | 2.10(c) | 844(c)  | 2.22(c) |
| 5400                  | 737(b)                                                                                                | 2.11(b) | 758(b)  | 2.20(b) | 781(b)  | 2.30(b) | 805(b)  | 2.41(b) | 828(b)  | 2.53(b) | 853(c)  | 2.65(c) | 876(c)  | 2.77(c) | 899(c)  | 2.89(c) |
| 6000                  | 815(b)                                                                                                | 2.88(b) | 833(b)  | 2.97(b) | 853(d)  | 3.08(d) | 874(d)  | 3.20(d) | 895(d)  | 3.32(d) | 917(d)  | 3.45(d) | 939(d)  | 3.58(d) | 960(d)  | 3.71(d) |
| 6600                  | 892(d)                                                                                                | 3.81(d) | 909(d)  | 3.91(d) | 927(d)  | 4.02(d) | 945(d)  | 4.14(d) | 965(d)  | 4.27(d) | 984(d)  | 4.41(d) | 1004(d) | 4.55(d) | 1023(e) | 4.69(e) |
| 7200                  | 971(d)                                                                                                | 4.92(d) | 986(f)  | 5.03(f) | 1002(f) | 5.15(f) | 1018(f) | 5.27(f) | 1036(f) | 5.41(f) | 1053(f) | 5.55(f) | 1071(f) | 5.70(f) | 1089(f) | 5.86(f) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                       | 0.9                                                                                                   |         | 1.0     |         | 1.1     |         | 1.2     |         | 1.3     |         | 1.4     |         | 1.5     |         | 1.6     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 4800                  | 870(c)                                                                                                | 2.33(c) | 896(c)  | 2.45(c) | 921(c)  | 2.56(c) | 946(c)  | 2.68(c) | 969(c)  | 2.79(c) | 990(c)  | 2.90(c) | 1011(c) | 3.00(c) | 1031(e) | 3.12(e) |
| 5400                  | 922(d)                                                                                                | 3.01(d) | 946(d)  | 3.14(d) | 969(d)  | 3.26(d) | 993(d)  | 3.40(d) | 1016(d) | 3.53(d) | 1039(e) | 3.66(e) | 1060(e) | 3.79(e) | 1081(e) | 3.92(e) |
| 6000                  | 981(d)                                                                                                | 3.85(d) | 1002(d) | 3.98(d) | 1022(e) | 4.11(e) | 1044(e) | 4.26(e) | 1065(e) | 4.40(e) | 1086(e) | 4.54(e) | 1108(e) | 4.69(e) | 1128(e) | 4.83(e) |
| 6600                  | 1043(e)                                                                                               | 4.84(e) | 1062(e) | 4.99(e) | 1081(f) | 5.13(f) | 1100(f) | 5.28(f) | 1119(f) | 5.43(f) | 1138(f) | 5.58(f) | 1157(g) | 5.74(g) | 1177(g) | 5.90(g) |
| 7200                  | 1107(f)                                                                                               | 6.01(f) | 1125(f) | 6.17(f) | 1143(f) | 6.33(f) | 1160(g) | 6.49(g) | 1178(g) | 6.65(g) | 1195(g) | 6.81(g) | 1212(g) | 6.97(g) | 1229(g) | 7.13(g) |

<sup>15</sup> Includes wet coil, no filter



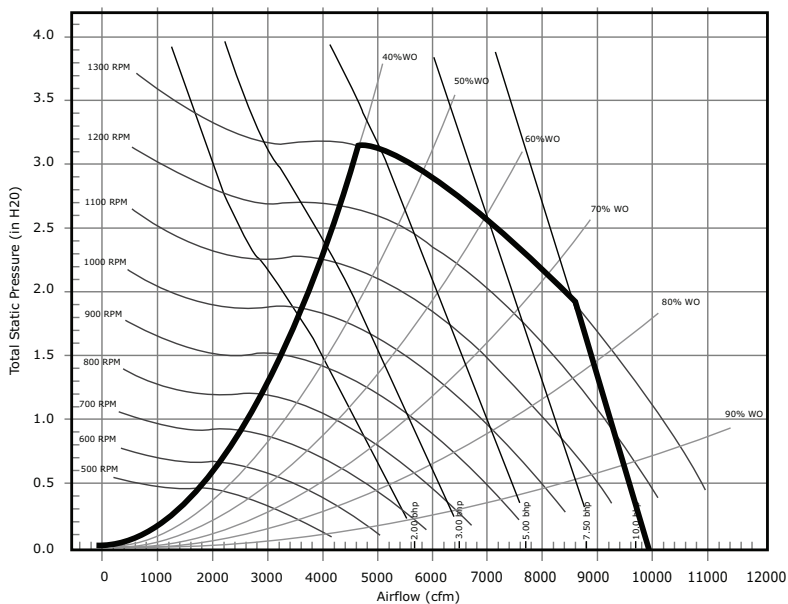
## Unit Fan Performance

**Table 137. Fan performance 15 tons GEH180 (includes wet coil, no filter) (continued)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |     |     |     |     |     |     |     |     |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5 |     | 0.6 |     | 0.7 |     | 0.8 |     |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |     |     |     |     |     |     |     |     |
|                       | 1.7                                                                                                   |         | 1.8     |         | 1.9     |         | 2.0     |         |     |     |     |     |     |     |     |     |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |     |     |     |     |     |     |     |     |
| 4800                  | 1051(e)                                                                                               | 3.23(e) | 1071(e) | 3.34(e) | 1091(e) | 3.45(e) | 1111(e) | 3.56(e) |     |     |     |     |     |     |     |     |
| 5400                  | 1100(e)                                                                                               | 4.04(e) | 1119(e) | 4.16(e) | 1138(e) | 4.29(e) | 1156(e) | 4.41(e) |     |     |     |     |     |     |     |     |
| 6000                  | 1148(e)                                                                                               | 4.98(e) | 1168(g) | 5.13(g) | 1187(g) | 5.27(g) | 1205(g) | 5.41(g) |     |     |     |     |     |     |     |     |
| 6600                  | 1196(g)                                                                                               | 6.05(g) | 1215(g) | 6.22(g) | 1234(g) | 6.37(g) | 1253(g) | 6.54(g) |     |     |     |     |     |     |     |     |
| 7200                  | 1248(g)                                                                                               | 7.31(g) | 1266(g) | 7.48(g) | —       | —       | —       | —       |     |     |     |     |     |     |     |     |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (a)                      | A                  | 1               |
| (b)                      | B                  | 2               |
| (c)                      | C                  | 3               |
| (d)                      | D                  | 4               |
| (e)                      | E                  | 5               |
| (f)                      | F                  | 6               |
| (g)                      | G                  | 7               |

**Figure 30. Fan performance curve (top supply) 15 tons GEV180<sup>16</sup>**



<sup>16</sup> Includes wet coil, no filter

**Table 138. Fan performance (top supply) 15 tons GEV180 (includes wet coil, no filter)**

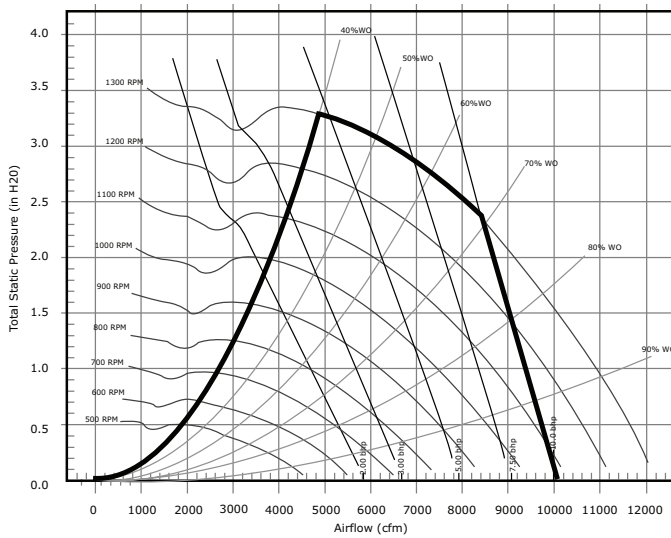
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5     |         | 0.6     |         | 0.7     |         | 0.8     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 4800                  | —                                                                                                     | —       | —       | —       | —       | —       | 669(a)  | 1.55(a) | 698(a)  | 1.66(a) | 727(a)  | 1.77(a) | 754(a)  | 1.87(a) | 781(a)  | 1.98(a) |
| 5400                  | —                                                                                                     | —       | 670(a)  | 1.84(a) | 698(a)  | 1.96(a) | 724(a)  | 2.08(a) | 750(a)  | 2.20(a) | 777(a)  | 2.32(a) | 802(a)  | 2.44(a) | 827(a)  | 2.56(a) |
| 6000                  | 710(a)                                                                                                | 2.37(a) | 731(a)  | 2.47(a) | 758(a)  | 2.60(a) | 782(a)  | 2.73(a) | 806(a)  | 2.86(a) | 830(a)  | 3.00(a) | 853(b)  | 3.13(b) | 877(b)  | 3.26(b) |
| 6600                  | —                                                                                                     | —       | 794(b)  | 3.23(b) | 819(b)  | 3.37(b) | 843(b)  | 3.52(b) | 864(b)  | 3.66(b) | 886(b)  | 3.81(b) | 907(b)  | 3.95(b) | 928(b)  | 4.09(b) |
| 7200                  | 848(b)                                                                                                | 4.06(b) | 860(b)  | 4.14(b) | 880(b)  | 4.28(b) | 904(b)  | 4.45(b) | 924(b)  | 4.60(b) | 943(b)  | 4.76(b) | 963(b)  | 4.92(b) | —       | —       |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                       | 0.9                                                                                                   |         | 1.0     |         | 1.1     |         | 1.2     |         | 1.3     |         | 1.4     |         | 1.5     |         | 1.6     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 4800                  | 808(a)                                                                                                | 2.08(a) | 834(a)  | 2.19(a) | 860(a)  | 2.30(a) | 885(a)  | 2.41(a) | 909(c)  | 2.52(c) | 933(c)  | 2.63(c) | 956(c)  | 2.73(c) | 979(c)  | 2.84(c) |
| 5400                  | 852(a)                                                                                                | 2.68(a) | 876(a)  | 2.80(a) | 900(c)  | 2.92(c) | 923(c)  | 3.04(c) | 946(b)  | 3.17(b) | 969(b)  | 3.29(b) | 991(b)  | 3.41(b) | 1013(b) | 3.53(b) |
| 6000                  | 899(b)                                                                                                | 3.40(b) | 922(b)  | 3.53(b) | 944(b)  | 3.66(b) | 966(b)  | 3.80(b) | 987(b)  | 3.93(b) | 1008(b) | 4.06(b) | 1030(d) | 4.20(d) | 1050(d) | 4.34(d) |
| 6600                  | 950(b)                                                                                                | 4.24(b) | 971(b)  | 4.39(b) | 992(b)  | 4.54(b) | 1012(b) | 4.69(b) | 1032(d) | 4.83(d) | 1053(d) | 4.98(d) | 1072(e) | 5.12(e) | 1091(e) | 5.27(e) |
| 7200                  | 1003(e)                                                                                               | 5.23(e) | 1023(e) | 5.39(e) | 1042(e) | 5.56(e) | 1061(e) | 5.72(e) | 1080(e) | 5.88(e) | 1099(e) | 6.04(e) | 1118(e) | 6.20(e) | 1136(e) | 6.36(e) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                       | 1.7                                                                                                   |         | 1.8     |         | 1.9     |         | 2.0     |         |         |         |         |         |         |         |         |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |         |         |         |         |         |         |         |         |
| 4800                  | 1001(c)                                                                                               | 2.96(c) | 1023(d) | 3.07(d) | 1045(d) | 3.19(d) | 1065(d) | 3.30(d) |         |         |         |         |         |         |         |         |
| 5400                  | 1034(d)                                                                                               | 3.65(d) | 1056(d) | 3.78(d) | 1075(d) | 3.89(d) | 1096(d) | 4.02(d) |         |         |         |         |         |         |         |         |
| 6000                  | 1071(d)                                                                                               | 4.47(d) | 1091(d) | 4.61(d) | 1111(d) | 4.75(d) | 1131(d) | 4.88(d) |         |         |         |         |         |         |         |         |
| 6600                  | 1111(e)                                                                                               | 5.42(e) | 1130(e) | 5.57(e) | 1149(e) | 5.72(e) | 1167(e) | 5.87(e) |         |         |         |         |         |         |         |         |
| 7200                  | 1154(e)                                                                                               | 6.52(e) | 1172(e) | 6.67(e) | 1190(e) | 6.83(e) | —       | —       |         |         |         |         |         |         |         |         |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (a)                      | A                  | 1               |
| (b)                      | B                  | 2               |
| (c)                      | C                  | 3               |
| (d)                      | D                  | 4               |
| (e)                      | E                  | 5               |



## Unit Fan Performance

**Figure 31. Fan performance curve (front/back supply) 15 tons GEV180<sup>17</sup>**



**Table 139. Fan performance (front/back supply) 15 tons GEV180 (includes wet coil, no filter)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5     |         | 0.6     |         | 0.7     |         | 0.8     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 4800                  | —                                                                                                     | —       | —       | —       | —       | —       | —       | —       | 668(a)  | 1.60(a) | 696(a)  | 1.70(a) | 724(a)  | 1.79(a) | 750(a)  | 1.89(a) |
| 5400                  | —                                                                                                     | —       | —       | —       | 665(a)  | 1.92(a) | 692(a)  | 2.03(a) | 717(a)  | 2.13(a) | 743(a)  | 2.24(a) | 768(a)  | 2.35(a) | 793(a)  | 2.46(a) |
| 6000                  | 670(a)                                                                                                | 2.28(a) | 696(a)  | 2.41(a) | 722(a)  | 2.54(a) | 746(a)  | 2.66(a) | 770(a)  | 2.78(a) | 793(a)  | 2.91(a) | 816(a)  | 3.02(a) | 839(b)  | 3.14(b) |
| 6600                  | 732(a)                                                                                                | 3.01(a) | 755(b)  | 3.15(b) | 780(b)  | 3.30(b) | 802(b)  | 3.43(b) | 824(b)  | 3.56(b) | 846(b)  | 3.70(b) | 867(b)  | 3.83(b) | 888(b)  | 3.96(b) |
| 7200                  | 795(b)                                                                                                | 3.89(b) | 815(b)  | 4.03(b) | 838(b)  | 4.19(b) | 860(b)  | 4.35(b) | 880(b)  | 4.49(b) | 900(b)  | 4.63(b) | 920(b)  | 4.78(b) | 940(b)  | 4.93(b) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                       | 0.9                                                                                                   |         | 1.0     |         | 1.1     |         | 1.2     |         | 1.3     |         | 1.4     |         | 1.5     |         | 1.6     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 4800                  | 776(a)                                                                                                | 1.98(a) | 802(a)  | 2.08(a) | 827(a)  | 2.18(a) | 853(a)  | 2.28(a) | 878(a)  | 2.38(a) | 902(c)  | 2.48(c) | 925(c)  | 2.59(c) | 949(c)  | 2.69(c) |
| 5400                  | 818(a)                                                                                                | 2.57(a) | 841(a)  | 2.67(a) | 864(a)  | 2.78(a) | 887(a)  | 2.88(a) | 910(c)  | 3.00(c) | 934(c)  | 3.12(c) | 955(c)  | 3.22(c) | 978(d)  | 3.34(d) |
| 6000                  | 861(b)                                                                                                | 3.27(b) | 884(b)  | 3.39(b) | 906(b)  | 3.51(b) | 927(b)  | 3.63(b) | 947(b)  | 3.74(b) | 969(d)  | 3.86(d) | 990(d)  | 3.98(d) | 1011(d) | 4.11(d) |
| 6600                  | 908(b)                                                                                                | 4.09(b) | 929(b)  | 4.23(b) | 950(b)  | 4.36(b) | 970(d)  | 4.50(d) | 990(d)  | 4.63(d) | 1010(d) | 4.76(d) | 1029(d) | 4.89(d) | 1048(d) | 5.02(d) |
| 7200                  | —                                                                                                     | —       | —       | —       | —       | —       | 1016(e) | 5.50(e) | 1035(e) | 5.65(e) | 1053(e) | 5.80(e) | 1071(e) | 5.94(e) | 1090(e) | 6.09(e) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                       | 1.7                                                                                                   |         | 1.8     |         | 1.9     |         | 2.0     |         |         |         |         |         |         |         |         |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |         |         |         |         |         |         |         |         |
| 4800                  | 972(c)                                                                                                | 2.79(c) | 995(c)  | 2.90(c) | 1018(c) | 3.01(c) | 1040(d) | 3.11(d) |         |         |         |         |         |         |         |         |
| 5400                  | 999(d)                                                                                                | 3.45(d) | 1021(d) | 3.57(d) | 1041(d) | 3.68(d) | 1063(d) | 3.80(d) |         |         |         |         |         |         |         |         |
| 6000                  | 1031(d)                                                                                               | 4.23(d) | 1051(d) | 4.35(d) | 1071(d) | 4.48(d) | 1090(d) | 4.61(d) |         |         |         |         |         |         |         |         |
| 6600                  | 1066(e)                                                                                               | 5.14(e) | 1085(e) | 5.28(e) | 1105(e) | 5.42(e) | 1124(e) | 5.56(e) |         |         |         |         |         |         |         |         |
| 7200                  | 1107(e)                                                                                               | 6.22(e) | 1125(e) | 6.36(e) | 1142(e) | 6.50(e) | 1160(e) | 6.65(e) |         |         |         |         |         |         |         |         |

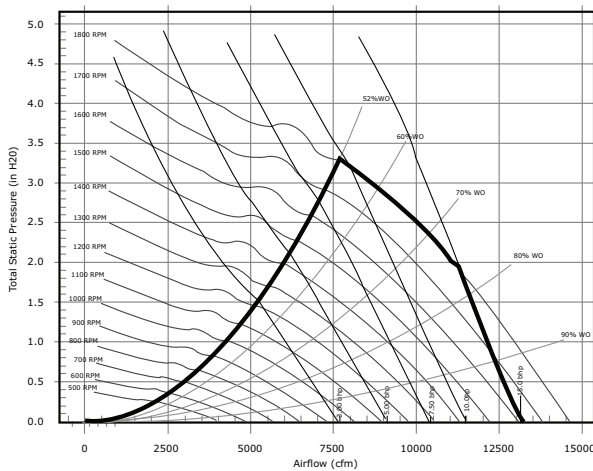
<sup>17</sup> Includes wet coil, no filter

**Table 139. Fan performance (front/back supply) 15 tons GEV180 (includes wet coil, no filter) (continued)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, No Drive Loss Included and No Return Air Filter) |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------------|-------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                       | 0.1                                                                                                   |     | 0.2 |     | 0.3 |     | 0.4 |     | 0.5 |     | 0.6 |     | 0.7 |     | 0.8 |     |
|                       | RPM                                                                                                   | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (a)                      | A                  | 1               |
| (b)                      | B                  | 2               |
| (c)                      | C                  | 3               |
| (d)                      | D                  | 4               |
| (e)                      | E                  | 5               |

**Figure 32. Fan performance curve (top supply) 20 tons GEV240<sup>18</sup>**



**Table 140. Fan performance (top supply) 20 tons GEV240 (includes wet coil, no filter)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5     |         | 0.6     |         | 0.7     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 6400                  | —                                                                                                     | —       | 893(a)  | 2.17(a) | 928(a)  | 2.31(a) | 962(a)  | 2.46(a) | 995(a)  | 2.61(a) | 1028(a) | 2.76(a) | 1059(a) | 2.91(a) |
| 7200                  | 956(a)                                                                                                | 2.83(a) | 988(a)  | 3.00(a) | 1019(a) | 3.16(a) | 1049(a) | 3.32(a) | 1080(a) | 3.49(a) | 1110(b) | 3.66(b) | 1139(b) | 3.83(b) |
| 8000                  | 1055(a)                                                                                               | 3.84(a) | 1085(a) | 4.03(a) | 1113(b) | 4.21(b) | 1141(b) | 4.39(b) | 1168(b) | 4.57(b) | 1195(b) | 4.76(b) | 1222(b) | 4.95(b) |
| 8800                  | —                                                                                                     | —       | —       | —       | —       | —       | 1234(c) | 5.67(c) | 1259(c) | 5.87(c) | 1283(c) | 6.07(c) | 1308(c) | 6.27(c) |
| 9600                  | 1255(c)                                                                                               | 6.54(c) | 1280(c) | 6.76(c) | 1305(c) | 6.98(c) | 1328(c) | 7.20(c) | 1352(c) | 7.42(c) | 1374(d) | 7.63(d) | 1397(d) | 7.85(d) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                       | 0.8                                                                                                   |         | 0.9     |         | 1.0     |         | 1.1     |         | 1.2     |         | 1.3     |         | 1.4     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 6400                  | 1091(b)                                                                                               | 3.07(b) | 1120(b) | 3.22(b) | 1149(b) | 3.37(b) | 1179(b) | 3.53(b) | 1207(b) | 3.69(b) | 1236(b) | 3.85(b) | 1263(b) | 4.01(b) |
| 7200                  | 1168(b)                                                                                               | 4.00(b) | 1196(b) | 4.17(b) | 1224(b) | 4.34(b) | 1250(b) | 4.52(b) | 1277(b) | 4.69(b) | 1302(b) | 4.86(b) | 1328(b) | 5.03(b) |
| 8000                  | 1249(c)                                                                                               | 5.13(c) | 1275(c) | 5.32(c) | 1301(c) | 5.52(c) | 1326(c) | 5.70(c) | 1352(c) | 5.90(c) | 1376(c) | 6.08(c) | 1399(c) | 6.28(c) |

<sup>18</sup> Includes wet coil, no filter



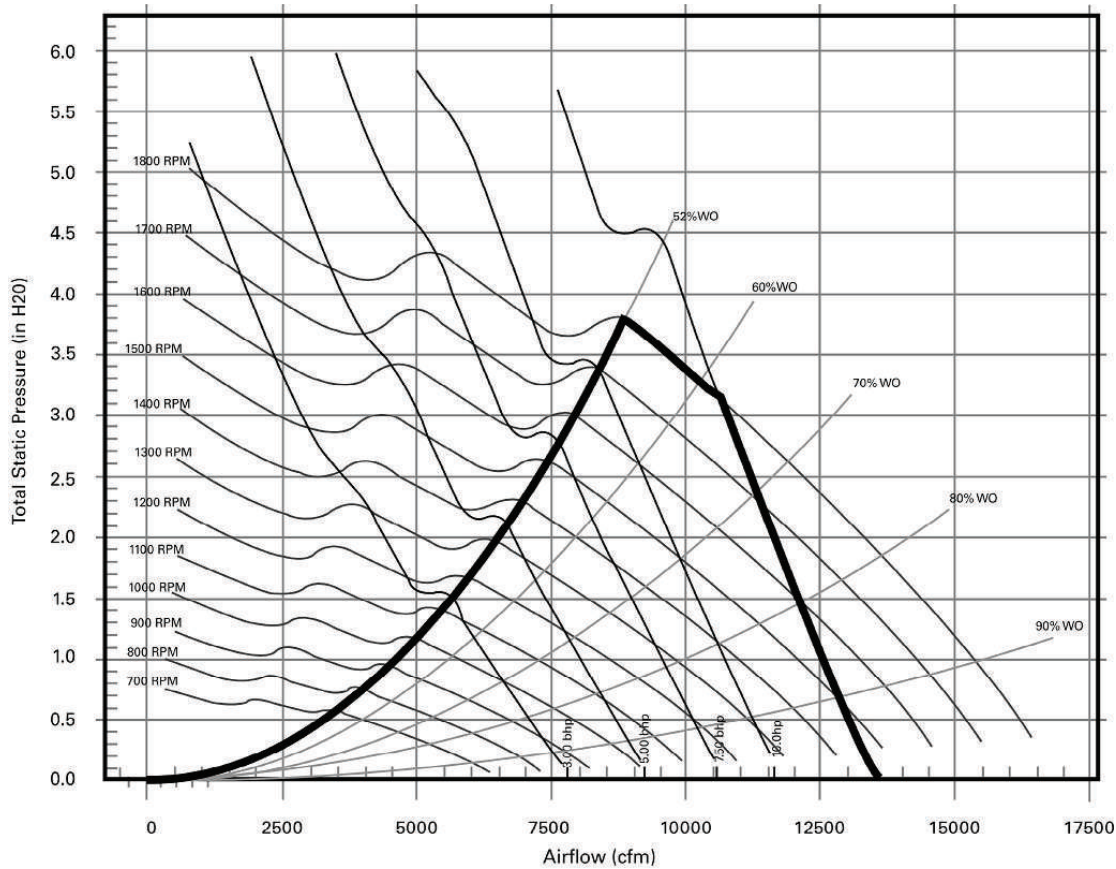
## Unit Fan Performance

**Table 140. Fan performance (top supply) 20 tons GEV240 (includes wet coil, no filter) (continued)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |          |         |          |         |          |         |          |         |          |         |          |         |          |
|-----------------------|-------------------------------------------------------------------------------------------------------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|
|                       | 0.1                                                                                                   |          | 0.2     |          | 0.3     |          | 0.4     |          | 0.5     |          | 0.6     |          | 0.7     |          |
|                       | RPM                                                                                                   | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      |
| 8800                  | 1333(c)                                                                                               | 6.48(c)  | 1357(c) | 6.69(c)  | 1382(c) | 6.90(c)  | 1405(c) | 7.11(c)  | 1429(c) | 7.32(c)  | 1452(c) | 7.53(c)  | 1474(f) | 7.73(f)  |
| 9600                  | 1420(d)                                                                                               | 8.07(d)  | 1443(d) | 8.30(d)  | 1465(d) | 8.53(d)  | 1487(f) | 8.75(f)  | 1509(f) | 8.98(f)  | 1531(f) | 9.21(f)  | 1553(f) | 9.44(f)  |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |          |         |          |         |          |         |          |         |          |         |          |         |          |
|                       | 1.5                                                                                                   |          | 1.6     |          | 1.7     |          | 1.8     |          | 1.9     |          | 2.0     |          | 2.1     |          |
|                       | RPM                                                                                                   | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      |
| 6400                  | 1289(b)                                                                                               | 4.17(b)  | 1317(b) | 4.35(b)  | 1343(b) | 4.51(b)  | 1369(c) | 4.68(c)  | 1394(c) | 4.85(c)  | 1420(c) | 5.04(c)  | 1444(c) | 5.21(c)  |
| 7200                  | 1353(c)                                                                                               | 5.22(c)  | 1378(c) | 5.39(c)  | 1403(c) | 5.57(c)  | 1428(c) | 5.77(c)  | 1451(c) | 5.95(c)  | 1475(c) | 6.13(c)  | 1498(e) | 6.32(e)  |
| 8000                  | 1423(c)                                                                                               | 6.47(c)  | 1447(c) | 6.66(c)  | 1469(c) | 6.85(c)  | 1492(f) | 7.05(f)  | 1515(f) | 7.25(f)  | 1537(f) | 7.45(f)  | 1559(f) | 7.65(f)  |
| 8800                  | 1496(f)                                                                                               | 7.94(f)  | 1519(f) | 8.16(f)  | 1540(f) | 8.36(f)  | 1562(f) | 8.58(f)  | 1583(f) | 8.78(f)  | 1605(f) | 9.01(f)  | 1625(f) | 9.22(f)  |
| 9600                  | 1574(f)                                                                                               | 9.67(f)  | 1595(f) | 9.90(f)  | 1616(g) | 10.12(g) | 1637(g) | 10.36(g) | 1656(g) | 10.58(g) | 1676(g) | 10.80(g) | 1696(g) | 11.04(g) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |          |         |          |         |          |         |          |         |          |         |          |         |          |
|                       | 2.2                                                                                                   |          | 2.3     |          | 2.4     |          | 2.4     |          | 2.6     |          | 2.7     |          | 2.8     |          |
|                       | RPM                                                                                                   | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      |
| 6400                  | 1470(c)                                                                                               | 5.40(c)  | 1496(e) | 5.59(e)  | 1523(e) | 5.80(e)  | —       | —        | —       | —        | —       | —        | —       | —        |
| 7200                  | 1523(e)                                                                                               | 6.52(e)  | 1545(e) | 6.71(e)  | 1568(e) | 6.91(e)  | 1589(e) | 7.10(e)  | 1612(e) | 7.31(e)  | 1635(e) | 7.51(e)  | 1656(f) | 7.71(f)  |
| 8000                  | 1581(f)                                                                                               | 7.85(f)  | 1603(f) | 8.06(f)  | 1624(f) | 8.26(f)  | 1647(f) | 8.49(f)  | 1668(f) | 8.70(f)  | 1688(f) | 8.91(f)  | 1708(f) | 9.12(f)  |
| 8800                  | 1646(f)                                                                                               | 9.43(f)  | 1666(f) | 9.65(f)  | 1687(f) | 9.87(f)  | 1707(g) | 10.09(g) | 1727(g) | 10.32(g) | 1747(g) | 10.54(g) | 1767(g) | 10.78(g) |
| 9600                  | 1715(g)                                                                                               | 11.26(g) | 1735(g) | 11.50(g) | 1754(g) | 11.74(g) | 1773(g) | 11.96(g) | 1793(g) | 12.22(g) | —       | —        | —       | —        |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |          |         |          |         |          |         |          |         |          |         |          |         |          |
|                       | 2.9                                                                                                   |          | 3.0     |          |         |          |         |          |         |          |         |          |         |          |
|                       | RPM                                                                                                   | BHP      | RPM     | BHP      |         |          |         |          |         |          |         |          |         |          |
| 6400                  | —                                                                                                     | —        | —       | —        |         |          |         |          |         |          |         |          |         |          |
| 7200                  | 1680(f)                                                                                               | 7.94(f)  | 1704(f) | 8.17(f)  |         |          |         |          |         |          |         |          |         |          |
| 8000                  | 1728(f)                                                                                               | 9.33(f)  | 1748(f) | 9.54(f)  |         |          |         |          |         |          |         |          |         |          |
| 8800                  | 1786(g)                                                                                               | 11.00(g) | —       | —        |         |          |         |          |         |          |         |          |         |          |
| 9600                  | —                                                                                                     | —        | —       | —        |         |          |         |          |         |          |         |          |         |          |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (a)                      | A                  | 1               |
| (b)                      | B                  | 2               |
| (c)                      | C                  | 3               |
| (d)                      | D                  | 4               |
| (e)                      | E                  | 5               |
| (f)                      | F                  | 6               |
| (g)                      | G                  | 7               |

**Figure 33. Fan performance curve (front/back supply) 20 tons GEV240<sup>19</sup>**



**Table 141. Fan performance (front/back supply) 20 tons GEV240 (includes wet coil, no filter)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5     |         | 0.6     |         | 0.7     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 6400                  | —                                                                                                     | —       | —       | —       | —       | —       | —       | —       | 899(a)  | 2.43(a) | 931(a)  | 2.57(a) | 962(a)  | 2.70(a) |
| 7200                  | —                                                                                                     | —       | —       | —       | 910(a)  | 2.94(a) | 941(a)  | 3.10(a) | 972(a)  | 3.25(a) | 1001(a) | 3.41(a) | 1030(a) | 3.56(a) |
| 8000                  | 933(a)                                                                                                | 3.58(a) | 962(a)  | 3.75(a) | 990(a)  | 3.91(a) | 1019(a) | 4.09(a) | 1048(a) | 4.26(a) | 1075(a) | 4.43(a) | 1102(b) | 4.60(b) |
| 8800                  | 1021(a)                                                                                               | 4.73(a) | 1047(a) | 4.91(a) | 1073(a) | 5.09(a) | 1100(c) | 5.28(c) | 1126(c) | 5.48(c) | 1151(c) | 5.67(c) | 1176(c) | 5.86(c) |
| 9600                  | 1109(c)                                                                                               | 6.10(c) | 1133(c) | 6.30(c) | 1157(c) | 6.50(c) | 1181(c) | 6.70(c) | 1205(c) | 6.91(c) | 1229(c) | 7.12(c) | 1253(c) | 7.33(c) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                       | 0.8                                                                                                   |         | 0.9     |         | 1.0     |         | 1.1     |         | 1.2     |         | 1.3     |         | 1.4     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     |
| 6400                  | 993(a)                                                                                                | 2.85(a) | 1023(a) | 2.99(a) | 1052(a) | 3.13(a) | 1080(a) | 3.27(a) | 1107(b) | 3.41(b) | 1134(b) | 3.55(b) | 1160(b) | 3.69(b) |
| 7200                  | 1059(a)                                                                                               | 3.72(a) | 1086(a) | 3.87(a) | 1114(b) | 4.03(b) | 1140(b) | 4.19(b) | 1166(b) | 4.35(b) | 1192(b) | 4.51(b) | 1217(b) | 4.66(b) |
| 8000                  | 1128(b)                                                                                               | 4.77(b) | 1154(b) | 4.95(b) | 1179(c) | 5.12(c) | 1204(c) | 5.29(c) | 1230(c) | 5.47(c) | 1253(c) | 5.64(c) | 1277(d) | 5.82(d) |
| 8800                  | 1201(c)                                                                                               | 6.04(c) | 1225(c) | 6.23(c) | 1249(c) | 6.42(c) | 1272(d) | 6.61(d) | 1295(d) | 6.79(d) | 1317(d) | 6.98(d) | 1340(d) | 7.18(d) |
| 9600                  | 1276(e)                                                                                               | 7.54(e) | 1298(e) | 7.74(e) | 1320(e) | 7.94(e) | 1342(e) | 8.14(e) | 1364(e) | 8.35(e) | 1385(e) | 8.55(e) | 1406(e) | 8.76(e) |

<sup>19</sup> Includes wet coil, no filter



## Unit Fan Performance

**Table 141. Fan performance (front/back supply) 20 tons GEV240 (includes wet coil, no filter) (continued)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |          |         |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5     |         | 0.6     |          | 0.7     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP      | RPM     | BHP     |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |          |         |         |
|                       | 1.5                                                                                                   |         | 1.6     |         | 1.7     |         | 1.8     |         | 1.9     |         | 2.0     |          | 2.1     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP      | RPM     | BHP     |
| 6400                  | 1186(b)                                                                                               | 3.83(b) | 1211(b) | 3.97(b) | 1235(b) | 4.10(b) | 1258(b) | 4.24(b) | 1282(b) | 4.38(b) | 1307(b) | 4.54(b)  | —       | —       |
| 7200                  | 1241(b)                                                                                               | 4.82(b) | 1265(b) | 4.97(b) | 1288(d) | 5.13(d) | 1313(d) | 5.30(d) | 1335(d) | 5.45(d) | 1357(d) | 5.62(d)  | 1378(d) | 5.76(d) |
| 8000                  | 1300(d)                                                                                               | 6.00(d) | 1323(d) | 6.17(d) | 1346(d) | 6.35(d) | 1368(d) | 6.52(d) | 1390(d) | 6.70(d) | 1412(d) | 6.88(d)  | 1432(d) | 7.05(d) |
| 8800                  | 1362(d)                                                                                               | 7.37(d) | 1384(e) | 7.56(e) | 1406(e) | 7.76(e) | 1426(e) | 7.95(e) | 1449(e) | 8.15(e) | 1469(e) | 8.34(e)  | 1489(g) | 8.53(g) |
| 9600                  | 1428(e)                                                                                               | 8.97(e) | 1448(e) | 9.18(e) | 1470(e) | 9.40(e) | 1489(g) | 9.60(g) | 1510(g) | 9.82(g) | 1529(g) | 10.03(g) | —       | —       |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |          |         |         |
|                       | 2.2                                                                                                   |         | 2.3     |         | 2.4     |         | 2.4     |         | 2.6     |         | 2.7     |          | 2.8     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP      | RPM     | BHP     |
| 6400                  | —                                                                                                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —        | —       | —       |
| 7200                  | 1399(d)                                                                                               | 5.91(d) | 1420(d) | 6.07(d) | 1442(d) | 6.24(d) | —       | —       | —       | —       | —       | —        | —       | —       |
| 8000                  | 1454(d)                                                                                               | 7.23(d) | 1475(d) | 7.41(d) | 1494(g) | 7.58(g) | 1513(g) | 7.75(g) | 1533(g) | 7.92(g) | 1551(g) | 8.08(g)  | 1570(g) | 8.25(g) |
| 8800                  | 1509(g)                                                                                               | 8.72(g) | 1529(g) | 8.92(g) | 1548(g) | 9.11(g) | 1567(g) | 9.30(g) | 1587(g) | 9.50(g) | 1605(g) | 9.69(g)  | 1625(g) | 9.89(g) |
| 9600                  | —                                                                                                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —        | —       | —       |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |          |         |         |
|                       | 2.9                                                                                                   |         | 3.0     |         |         |         |         |         |         |         |         |          |         |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     |         |         |         |         |         |         |         |          |         |         |
| 6400                  | —                                                                                                     | —       | —       | —       |         |         |         |         |         |         |         |          |         |         |
| 7200                  | —                                                                                                     | —       | —       | —       |         |         |         |         |         |         |         |          |         |         |
| 8000                  | 1589(g)                                                                                               | 8.43(g) | 1608(g) | 8.61(g) |         |         |         |         |         |         |         |          |         |         |
| 8800                  | —                                                                                                     | —       | —       | —       |         |         |         |         |         |         |         |          |         |         |
| 9600                  | —                                                                                                     | —       | —       | —       |         |         |         |         |         |         |         |          |         |         |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (a)                      | A                  | 1               |
| (b)                      | B                  | 2               |
| (c)                      | C                  | 3               |
| (d)                      | D                  | 4               |
| (e)                      | E                  | 5               |
| (g)                      | G                  | 7               |



Figure 34. Fan performance curve (with 11x15 blower wheel) 25 tons GEV300<sup>20</sup>

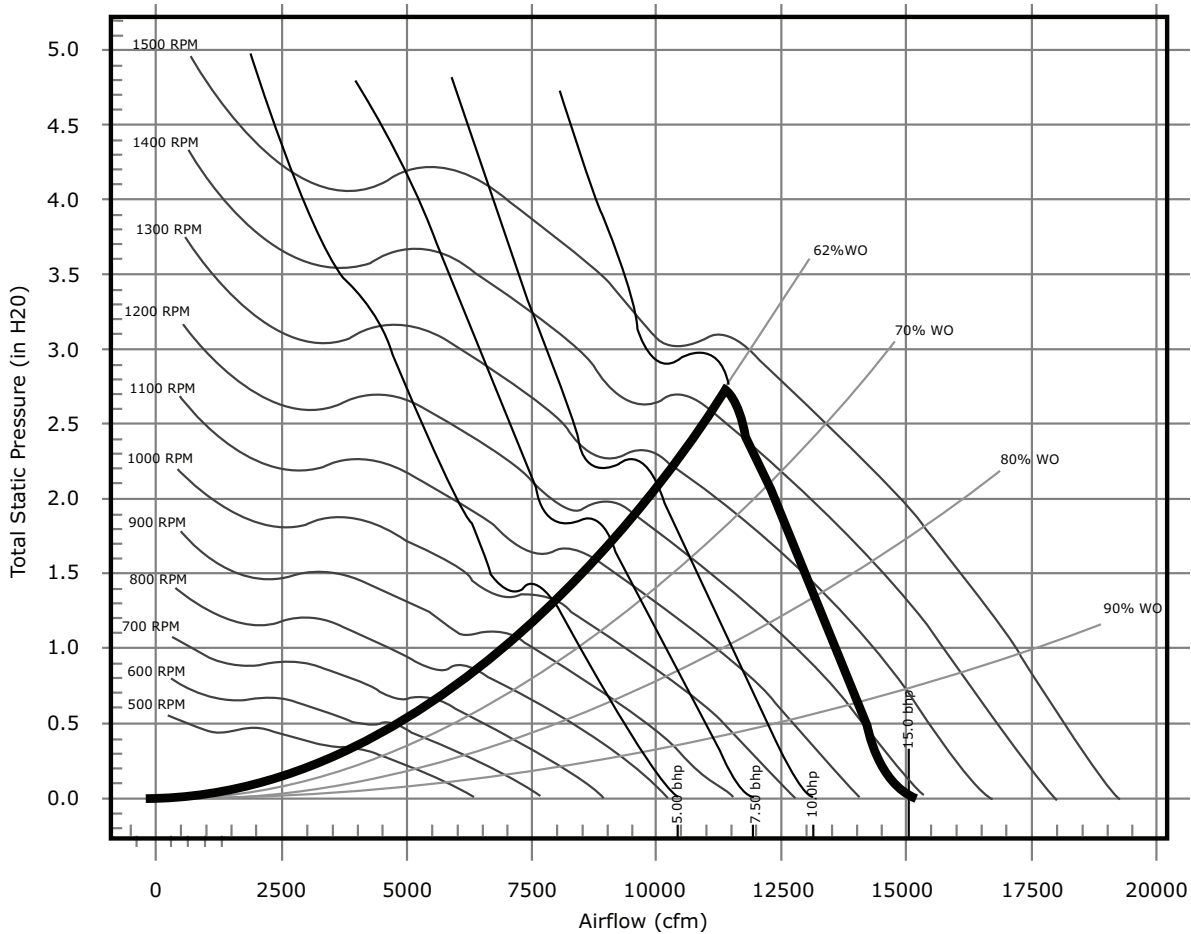


Table 142. Fan performance (top supply with 11x15 blower wheel) 25 tons GEV300 (includes wet coil, no filter)

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |          |         |          |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|----------|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4     |         | 0.5     |         | 0.6     |          | 0.7     |          |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP      | RPM     | BHP      |
| 8000                  | —                                                                                                     | —       | —       | —       | —       | —       | 760(a)  | 3.23(a) | 787(a)  | 3.42(a) | 814(a)  | 3.60(a)  | 839(a)  | 3.79(a)  |
| 9000                  | —                                                                                                     | —       | 781(a)  | 3.98(a) | 805(a)  | 4.17(a) | 829(a)  | 4.36(a) | 853(a)  | 4.57(a) | 878(a)  | 4.79(a)  | 901(a)  | 5.00(a)  |
| 10000                 | —                                                                                                     | —       | 858(b)  | 5.36(b) | 879(b)  | 5.57(b) | 901(b)  | 5.78(b) | 923(b)  | 6.00(b) | 945(b)  | 6.23(b)  | 966(b)  | 6.48(b)  |
| 11000                 | 917(b)                                                                                                | 6.81(b) | 936(b)  | 7.04(b) | 955(b)  | 7.26(b) | 975(b)  | 7.50(b) | 994(d)  | 7.73(d) | 1014(d) | 7.98(d)  | 1034(d) | 8.23(d)  |
| 12000                 | 997(d)                                                                                                | 8.79(d) | 1015(d) | 9.05(d) | 1032(d) | 9.29(d) | 1050(d) | 9.54(d) | 1068(d) | 9.79(d) | 1086(f) | 10.05(f) | 1104(f) | 10.31(f) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |         |         |         |         |         |         |          |         |          |
|                       | 0.8                                                                                                   |         | 0.9     |         | 1.0     |         | 1.1     |         | 1.2     |         | 1.3     |          | 1.4     |          |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP     | RPM     | BHP      | RPM     | BHP      |
| 8000                  | 866(a)                                                                                                | 3.99(a) | 891(a)  | 4.19(a) | 916(a)  | 4.38(a) | 939(a)  | 4.57(a) | 963(a)  | 4.76(a) | 987(b)  | 4.97(b)  | 1011(b) | 5.19(b)  |
| 9000                  | 925(b)                                                                                                | 5.21(b) | 948(b)  | 5.43(b) | 971(b)  | 5.65(b) | 993(b)  | 5.87(b) | 1016(b) | 6.10(b) | 1037(b) | 6.31(b)  | 1058(b) | 6.52(b)  |
| 10000                 | 988(b)                                                                                                | 6.72(b) | 1009(b) | 6.95(b) | 1030(b) | 7.18(b) | 1051(b) | 7.41(b) | 1072(d) | 7.66(d) | 1092(d) | 7.91(d)  | 1112(d) | 8.16(d)  |
| 11000                 | 1054(d)                                                                                               | 8.50(d) | 1074(d) | 8.76(d) | 1093(d) | 9.02(d) | 1112(d) | 9.27(d) | 1131(d) | 9.53(d) | 1150(d) | 9.78(d)  | 1169(f) | 10.06(f) |

<sup>20</sup> Includes wet coil, no filter



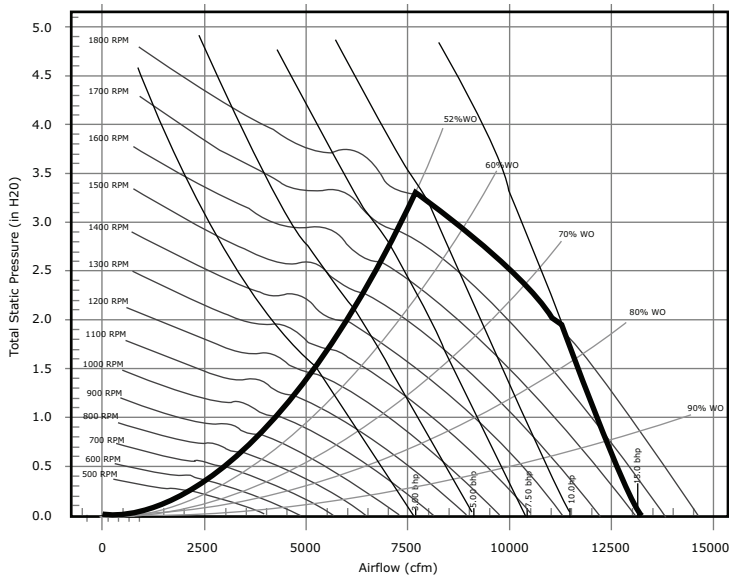
## Unit Fan Performance

**Table 142. Fan performance (top supply with 11x15 blower wheel) 25 tons GEV300 (includes wet coil, no filter) (continued)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |          |         |          |         |          |         |          |         |          |         |          |         |          |
|-----------------------|-------------------------------------------------------------------------------------------------------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|
|                       | 0.1                                                                                                   |          | 0.2     |          | 0.3     |          | 0.4     |          | 0.5     |          | 0.6     |          | 0.7     |          |
|                       | RPM                                                                                                   | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      |
| 12000                 | 1122(f)                                                                                               | 10.59(f) | 1141(f) | 10.88(f) | 1158(f) | 11.17(f) | 1177(f) | 11.47(f) | 1194(f) | 11.74(f) | 1212(f) | 12.02(f) | 1229(f) | 12.29(f) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |          |         |          |         |          |         |          |         |          |         |          |         |          |
|                       | 1.5                                                                                                   |          | 1.6     |          | 1.7     |          | 1.8     |          | 1.9     |          | 2.0     |          | 2.1     |          |
|                       | RPM                                                                                                   | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      |
| 8000                  | 1037(b)                                                                                               | 5.43(b)  | —       | —        | —       | —        | —       | —        | —       | —        | —       | —        | —       | —        |
| 9000                  | 1080(c)                                                                                               | 6.74(c)  | 1101(c) | 6.97(c)  | 1122(c) | 7.21(c)  | 1144(c) | 7.46(c)  | —       | —        | —       | —        | —       | —        |
| 10000                 | 1132(d)                                                                                               | 8.41(d)  | 1151(d) | 8.65(d)  | 1170(e) | 8.88(e)  | 1190(e) | 9.13(e)  | 1209(e) | 9.37(e)  | 1227(e) | 9.60(e)  | 1247(e) | 9.88(e)  |
| 11000                 | 1187(f)                                                                                               | 10.32(f) | 1206(f) | 10.60(f) | 1224(f) | 10.88(f) | 1243(f) | 11.16(f) | 1261(f) | 11.42(f) | 1278(f) | 11.68(f) | 1295(f) | 11.94(f) |
| 12000                 | 1247(f)                                                                                               | 12.57(f) | 1264(f) | 12.86(f) | 1281(f) | 13.15(f) | 1298(f) | 13.46(f) | 1315(f) | 13.76(f) | 1331(f) | 14.04(f) | 1349(f) | 14.37(f) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |          |         |          |         |          |         |          |         |          |         |          |         |          |
|                       | 2.2                                                                                                   |          | 2.3     |          |         |          |         |          |         |          |         |          |         |          |
|                       | RPM                                                                                                   | BHP      | RPM     | BHP      |         |          |         |          |         |          |         |          |         |          |
| 8000                  | —                                                                                                     | —        | —       | —        |         |          |         |          |         |          |         |          |         |          |
| 9000                  | —                                                                                                     | —        | —       | —        |         |          |         |          |         |          |         |          |         |          |
| 10000                 | 1266(f)                                                                                               | 10.16(f) | 1286(f) | 10.45(f) |         |          |         |          |         |          |         |          |         |          |
| 11000                 | 1313(f)                                                                                               | 12.21(f) | 1330(f) | 12.47(f) |         |          |         |          |         |          |         |          |         |          |
| 12000                 | 1365(f)                                                                                               | 14.65(f) | 1381(f) | 14.93(f) |         |          |         |          |         |          |         |          |         |          |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (a)                      | A                  | 1               |
| (b)                      | B                  | 2               |
| (c)                      | C                  | 3               |
| (d)                      | D                  | 4               |
| (e)                      | E                  | 5               |
| (f)                      | F                  | 6               |

**Figure 35. Fan performance curve (top supply with 12x12 blower wheel) 25 tons GEV300<sup>21</sup>**



**Table 143. Fan performance (top supply with 12x12 blower wheel) 25 tons GEV300 (includes wet coil, no filter)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |          |         |          |         |          |         |          |         |          |         |          |         |         |         |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|---------|---------|---------|
|                       | 1.6                                                                                                   |          | 1.7     |          | 1.8     |          | 1.9     |          | 2.0     |          | 2.1     |          | 2.2     |         | 2.3     |         |
|                       | RPM                                                                                                   | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP     | RPM     | BHP     |
| 8000                  | 1434(g)                                                                                               | 6.56(g)  | 1458(g) | 6.76(g)  | 1481(g) | 6.96(g)  | 1503(g) | 7.14(g)  | 1525(g) | 7.34(g)  | 1548(g) | 7.55(g)  | 1569(h) | 7.74(h) | 1592(h) | 7.96(h) |
| 9000                  | —                                                                                                     | —        | —       | —        | —       | —        | 1588(h) | 9.07(h)  | 1609(h) | 9.29(h)  | 1629(h) | 9.50(h)  | 1650(h) | 9.73(h) | 1670(h) | 9.94(h) |
| 10000                 | —                                                                                                     | —        | —       | —        | —       | —        | —       | —        | —       | —        | —       | —        | —       | —       | —       | —       |
| 11000                 | —                                                                                                     | —        | —       | —        | —       | —        | —       | —        | —       | —        | —       | —        | —       | —       | —       | —       |
| 12000                 | —                                                                                                     | —        | —       | —        | —       | —        | —       | —        | —       | —        | —       | —        | —       | —       | —       | —       |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |          |         |          |         |          |         |          |         |          |         |          |         |         |         |         |
|                       | 2.4                                                                                                   |          | 2.5     |          | 2.6     |          | 2.7     |          | 2.8     |          | 2.9     |          | 3.0     |         |         |         |
|                       | RPM                                                                                                   | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP     |         |         |
| 8000                  | 1613(h)                                                                                               | 8.16(h)  | 1635(h) | 8.37(h)  | 1657(h) | 8.60(h)  | 1677(h) | 8.80(h)  | 1698(h) | 9.01(h)  | 1718(h) | 9.22(h)  | 1738(h) | 9.43(h) |         |         |
| 9000                  | 1691(h)                                                                                               | 10.17(h) | 1710(h) | 10.39(h) | 1731(h) | 10.63(h) | 1749(h) | 10.84(h) | 1769(j) | 11.07(j) | 1790(j) | 11.32(j) | —       | —       |         |         |
| 10000                 | 1775(j)                                                                                               | 12.58(j) | —       | —        | —       | —        | —       | —        | —       | —        | —       | —        | —       | —       |         |         |
| 11000                 | —                                                                                                     | —        | —       | —        | —       | —        | —       | —        | —       | —        | —       | —        | —       | —       |         |         |
| 12000                 | —                                                                                                     | —        | —       | —        | —       | —        | —       | —        | —       | —        | —       | —        | —       | —       |         |         |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (g)                      | G                  | 7               |
| (h)                      | H                  | 8               |
| (j)                      | J                  | 9               |

<sup>21</sup> Includes wet coil, no filter



## Unit Fan Performance

Figure 36. Fan performance curve (front/back supply with 11x15 blower wheel) 25 tons GEV300<sup>22</sup>

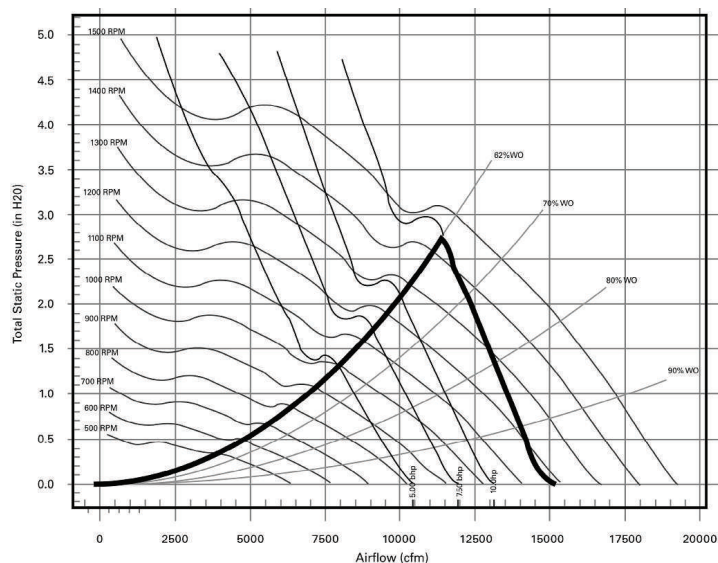


Table 144. Fan performance (front/back supply with 11x15 blower wheel) 25 tons GEV300 (includes wet coil, no filter)

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |          |         |         |         |          |         |          |         |          |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|----------|---------|---------|---------|----------|---------|----------|---------|----------|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |          | 0.4     |         | 0.5     |          | 0.6     |          | 0.7     |          |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP      | RPM     | BHP     | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      |
| 8000                  | —                                                                                                     | —       | —       | —       | —       | —        | —       | —       | —       | —        | 755(a)  | 3.42(a)  | 780(a)  | 3.59(a)  |
| 9000                  | —                                                                                                     | —       | —       | —       | 760(a)  | 4.18(a)  | 777(a)  | 4.31(a) | 795(a)  | 4.44(a)  | 814(a)  | 4.58(a)  | 836(a)  | 4.75(a)  |
| 10000                 | —                                                                                                     | —       | —       | —       | 835(b)  | 5.64(b)  | 849(b)  | 5.78(b) | 864(b)  | 5.92(b)  | 880(b)  | 6.06(b)  | 897(b)  | 6.21(b)  |
| 11000                 | 885(b)                                                                                                | 7.09(b) | 898(b)  | 7.25(b) | 910(b)  | 7.41(b)  | 923(d)  | 7.56(d) | 936(d)  | 7.72(d)  | 950(d)  | 7.87(d)  | 965(d)  | 8.02(d)  |
| 12000                 | 963(d)                                                                                                | 9.17(d) | 975(d)  | 9.35(d) | 987(d)  | 9.52(d)  | 998(d)  | 9.69(d) | 1010(d) | 9.86(d)  | 1022(d) | 10.02(d) | —       | —        |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |          |         |         |         |          |         |          |         |          |
|                       | 0.8                                                                                                   |         | 0.9     |         | 1.0     |          | 1.1     |         | 1.2     |          | 1.3     |          | 1.4     |          |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP      | RPM     | BHP     | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      |
| 8000                  | 804(a)                                                                                                | 3.75(a) | 829(a)  | 3.93(a) | 853(a)  | 4.10(a)  | 876(a)  | 4.27(a) | 898(a)  | 4.43(a)  | 921(a)  | 4.61(a)  | 944(a)  | 4.80(a)  |
| 9000                  | 859(a)                                                                                                | 4.95(a) | 881(b)  | 5.14(b) | 903(b)  | 5.33(b)  | 925(b)  | 5.52(b) | 946(b)  | 5.71(b)  | 966(b)  | 5.90(b)  | 987(b)  | 6.09(b)  |
| 10000                 | 916(b)                                                                                                | 6.39(b) | 936(b)  | 6.59(b) | 957(b)  | 6.82(b)  | 976(b)  | 7.02(b) | 996(b)  | 7.23(b)  | 1016(b) | 7.44(b)  | 1035(d) | 7.65(d)  |
| 11000                 | 980(d)                                                                                                | 8.18(d) | 996(d)  | 8.37(d) | 1014(d) | 8.58(d)  | 1032(d) | 8.81(d) | 1050(d) | 9.04(d)  | 1069(d) | 9.28(d)  | 1087(d) | 9.51(d)  |
| 12000                 | —                                                                                                     | —       | —       | —       | —       | —        | —       | —       | 1107(d) | 11.16(d) | 1124(d) | 11.41(d) | 1141(d) | 11.67(d) |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |          |         |         |         |          |         |          |         |          |
|                       | 1.5                                                                                                   |         | 1.6     |         | 1.7     |          | 1.8     |         | 1.9     |          | 2.0     |          | 2.1     |          |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP      | RPM     | BHP     | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      |
| 8000                  | 967(a)                                                                                                | 4.99(a) | 990(b)  | 5.21(b) | 1015(b) | 5.47(b)  | —       | —       | —       | —        | —       | —        | —       | —        |
| 9000                  | 1008(b)                                                                                               | 6.29(b) | 1028(b) | 6.48(b) | 1047(b) | 6.67(b)  | 1067(c) | 6.88(c) | 1087(c) | 7.11(c)  | 1109(c) | 7.36(c)  | —       | —        |
| 10000                 | 1054(d)                                                                                               | 7.87(d) | 1073(d) | 8.08(d) | 1091(d) | 8.29(d)  | 1110(d) | 8.52(d) | 1127(d) | 8.72(d)  | 1146(e) | 8.94(e)  | 1164(e) | 9.16(e)  |
| 11000                 | 1105(d)                                                                                               | 9.74(d) | 1122(d) | 9.97(d) | 1140(d) | 10.21(d) | —       | —       | —       | —        | —       | —        | —       | —        |

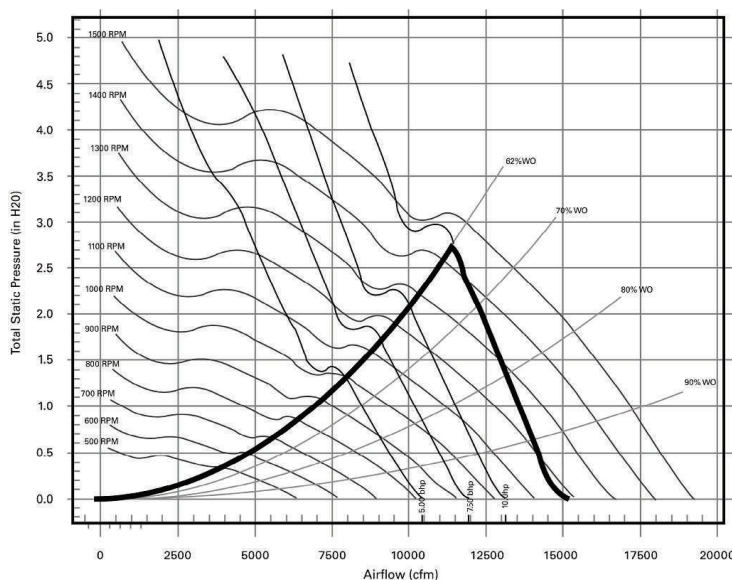
<sup>22</sup> Includes wet coil, no filter

**Table 144. Fan performance (front/back supply with 11x15 blower wheel) 25 tons GEV300 (includes wet coil, no filter) (continued)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |         |     |     |     |     |     |     |     |     |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
|                       | 0.1                                                                                                   |         | 0.2     |         | 0.3     |         | 0.4 |     | 0.5 |     | 0.6 |     | 0.7 |     |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 12000                 | —                                                                                                     | —       | —       | —       | —       | —       | —   | —   | —   | —   | —   | —   | —   | —   |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |         |         |         |     |     |     |     |     |     |     |     |
|                       | 2.2                                                                                                   |         | 2.3     |         | 2.4     |         |     |     |     |     |     |     |     |     |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP     | RPM     | BHP     |     |     |     |     |     |     |     |     |
| 8000                  | —                                                                                                     | —       | —       | —       | —       | —       |     |     |     |     |     |     |     |     |
| 9000                  | —                                                                                                     | —       | —       | —       | —       | —       |     |     |     |     |     |     |     |     |
| 10000                 | 1182(e)                                                                                               | 9.40(e) | 1200(e) | 9.64(e) | 1219(e) | 9.91(e) |     |     |     |     |     |     |     |     |
| 11000                 | —                                                                                                     | —       | —       | —       | —       | —       |     |     |     |     |     |     |     |     |
| 12000                 | —                                                                                                     | —       | —       | —       | —       | —       |     |     |     |     |     |     |     |     |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (a)                      | A                  | 1               |
| (b)                      | B                  | 2               |
| (c)                      | C                  | 3               |
| (d)                      | D                  | 4               |
| (e)                      | E                  | 5               |

**Figure 37. Fan performance curve (front/back supply with 12x12 blower wheel) 25 tons GEV300<sup>23</sup>**



<sup>23</sup> Includes wet coil, no filter



## Unit Fan Performance

**Table 145. Fan performance (front/back supply with 12x12 blower wheel) 25 tons GEV300 (includes wet coil, no filter)**

| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |          |         |          |         |          |         |          |         |          |         |         |
|-----------------------|-------------------------------------------------------------------------------------------------------|---------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|---------|
|                       | 1.8                                                                                                   |         | 1.9     |          | 2.0     |          | 2.1     |          | 2.2     |          | 2.3     |          | 2.4     |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP     |
| 8000                  | 1356(g)                                                                                               | 6.25(g) | 1379(g) | 6.42(g)  | 1400(g) | 6.59(g)  | 1422(g) | 6.76(g)  | 1443(g) | 6.93(g)  | 1463(g) | 7.1(g)   | 1484(g) | 7.27(g) |
| 9000                  | —                                                                                                     | —       | —       | —        | —       | —        | 1490(h) | 8.55(h)  | 1510(h) | 8.74(h)  | 1531(h) | 8.94(h)  | 1549(h) | 9.12(h) |
| 10000                 | —                                                                                                     | —       | —       | —        | —       | —        | —       | —        | —       | —        | —       | —        | —       | —       |
| 11000                 | —                                                                                                     | —       | —       | —        | —       | —        | —       | —        | —       | —        | —       | —        | —       | —       |
| 12000                 | —                                                                                                     | —       | —       | —        | —       | —        | —       | —        | —       | —        | —       | —        | —       | —       |
| Std<br>Airflow<br>CFM | Unit External Static Pressure inches W.G. (Wet Coil, 3% Drive Loss Included and No Return Air Filter) |         |         |          |         |          |         |          |         |          |         |          |         |         |
|                       | 2.5                                                                                                   |         | 2.6     |          | 2.7     |          | 2.8     |          | 2.9     |          | 3.0     |          |         |         |
|                       | RPM                                                                                                   | BHP     | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      | RPM     | BHP      |         |         |
| 8000                  | 1505(h)                                                                                               | 7.45(h) | 1522(h) | 7.6(h)   | 1542(h) | 7.76(h)  | 1562(h) | 7.94(h)  | 1581(h) | 8.11(h)  | 1600(h) | 8.29(h)  |         |         |
| 9000                  | 1569(h)                                                                                               | 9.32(h) | 1588(h) | 9.5(h)   | 1608(h) | 9.71(h)  | 1625(h) | 9.89(h)  | 1644(h) | 10.08(h) | 1662(h) | 10.28(h) |         |         |
| 10000                 | —                                                                                                     | —       | 1658(j) | 11.76(j) | 1676(j) | 11.96(j) | 1693(j) | 12.17(j) | 1711(j) | 12.38(j) | 1729(j) | 12.6(j)  |         |         |
| 11000                 | —                                                                                                     | —       | —       | —        | —       | —        | 1765(j) | 14.82(j) | —       | —        | —       | —        |         |         |
| 12000                 | —                                                                                                     | —       | —       | —        | —       | —        | —       | —        | —       | —        | —       | —        |         |         |

| Digit 12 - Drive Package |                    |                 |
|--------------------------|--------------------|-----------------|
| Legend                   | single speed motor | two speed motor |
| (g)                      | G                  | 7               |
| (h)                      | H                  | 8               |
| (j)                      | J                  | 9               |

**Table 146. Added pressure drop through optional filters (inches water column), 0.5 to 5 tons, GE\*006-060**

| Model No. | CFM | 2" MERV 8 | 2" MERV13 | 4" MERV 8 | 4" MERV13 |
|-----------|-----|-----------|-----------|-----------|-----------|
| GEV/H006  | 152 | 0.03      | 0.06      | 0.02      | 0.04      |
| GEV/H006  | 162 | 0.04      | 0.06      | 0.02      | 0.05      |
| GEV/H006  | 171 | 0.04      | 0.06      | 0.02      | 0.05      |
| GEV/H006  | 181 | 0.04      | 0.07      | 0.02      | 0.05      |
| GEV/H006  | 190 | 0.04      | 0.07      | 0.02      | 0.05      |
| GEV/H006  | 200 | 0.05      | 0.08      | 0.02      | 0.05      |
| GEV/H006  | 209 | 0.05      | 0.08      | 0.03      | 0.06      |
| GEV/H006  | 219 | 0.05      | 0.08      | 0.03      | 0.06      |
| GEV/H006  | 228 | 0.06      | 0.09      | 0.03      | 0.06      |
| GEV/H009  | 228 | 0.06      | 0.09      | 0.03      | 0.06      |
| GEV/H009  | 242 | 0.06      | 0.09      | 0.03      | 0.07      |
| GEV/H009  | 257 | 0.06      | 0.10      | 0.03      | 0.07      |
| GEV/H009  | 271 | 0.07      | 0.11      | 0.04      | 0.07      |
| GEV/H009  | 285 | 0.07      | 0.11      | 0.04      | 0.08      |
| GEV/H009  | 299 | 0.08      | 0.12      | 0.04      | 0.08      |
| GEV/H009  | 314 | 0.08      | 0.13      | 0.05      | 0.09      |

**Table 146. Added pressure drop through optional filters (inches water column), 0.5 to 5 tons, GE\*006-060 (continued)**

| Model No. | CFM | 2" MERV 8 | 2" MERV13 | 4" MERV 8 | 4" MERV13 |
|-----------|-----|-----------|-----------|-----------|-----------|
| GEV/H009  | 328 | 0.09      | 0.13      | 0.05      | 0.09      |
| GEV/H009  | 342 | 0.09      | 0.14      | 0.05      | 0.10      |
| GEV/H012  | 304 | 0.08      | 0.12      | 0.04      | 0.09      |
| GEV/H012  | 323 | 0.08      | 0.13      | 0.05      | 0.09      |
| GEV/H012  | 342 | 0.09      | 0.14      | 0.05      | 0.10      |
| GEV/H012  | 361 | 0.10      | 0.15      | 0.06      | 0.11      |
| GEV/H012  | 380 | 0.10      | 0.16      | 0.06      | 0.11      |
| GEV/H012  | 399 | 0.11      | 0.17      | 0.07      | 0.12      |
| GEV/H012  | 418 | 0.11      | 0.18      | 0.07      | 0.13      |
| GEV/H012  | 437 | 0.12      | 0.19      | 0.08      | 0.14      |
| GEV/H012  | 456 | 0.13      | 0.20      | 0.08      | 0.15      |
| GEV/H015  | 380 | 0.07      | 0.11      | 0.04      | 0.08      |
| GEV/H015  | 404 | 0.08      | 0.12      | 0.04      | 0.09      |
| GEV/H015  | 428 | 0.08      | 0.13      | 0.05      | 0.09      |
| GEV/H015  | 451 | 0.09      | 0.14      | 0.05      | 0.10      |
| GEV/H015  | 475 | 0.09      | 0.15      | 0.06      | 0.10      |
| GEV/H015  | 499 | 0.10      | 0.16      | 0.06      | 0.11      |
| GEV/H015  | 523 | 0.10      | 0.17      | 0.07      | 0.12      |
| GEV/H015  | 546 | 0.11      | 0.18      | 0.07      | 0.13      |
| GEV/H015  | 570 | 0.12      | 0.19      | 0.08      | 0.13      |
| GEV/H018  | 456 | 0.09      | 0.14      | 0.05      | 0.10      |
| GEV/H018  | 485 | 0.10      | 0.15      | 0.06      | 0.11      |
| GEV/H018  | 513 | 0.10      | 0.16      | 0.06      | 0.12      |
| GEV/H018  | 542 | 0.11      | 0.17      | 0.07      | 0.12      |
| GEV/H018  | 570 | 0.12      | 0.19      | 0.08      | 0.13      |
| GEV/H018  | 599 | 0.12      | 0.20      | 0.08      | 0.14      |
| GEV/H018  | 627 | 0.13      | 0.21      | 0.09      | 0.15      |
| GEV/H018  | 656 | 0.14      | 0.22      | 0.10      | 0.16      |
| GEV/H018  | 684 | 0.14      | 0.23      | 0.10      | 0.17      |
| GEV/H024  | 608 | 0.11      | 0.17      | 0.07      | 0.12      |
| GEV/H024  | 646 | 0.11      | 0.18      | 0.07      | 0.13      |
| GEV/H024  | 684 | 0.12      | 0.19      | 0.08      | 0.14      |
| GEV/H024  | 722 | 0.13      | 0.21      | 0.09      | 0.15      |
| GEV/H024  | 760 | 0.14      | 0.22      | 0.10      | 0.16      |
| GEV/H024  | 798 | 0.14      | 0.24      | 0.10      | 0.18      |
| GEV/H024  | 836 | 0.15      | 0.25      | 0.11      | 0.19      |
| GEV/H024  | 874 | 0.16      | 0.27      | 0.12      | 0.20      |
| GEV/H024  | 912 | 0.17      | 0.28      | 0.13      | 0.22      |
| GEV/H030  | 760 | 0.14      | 0.22      | 0.10      | 0.16      |
| GEV/H030  | 808 | 0.15      | 0.24      | 0.11      | 0.18      |



## Unit Fan Performance

**Table 146. Added pressure drop through optional filters (inches water column), 0.5 to 5 tons, GE\*006-060 (continued)**

| Model No. | CFM  | 2" MERV 8 | 2" MERV13 | 4" MERV 8 | 4" MERV13 |
|-----------|------|-----------|-----------|-----------|-----------|
| GEV/H030  | 855  | 0.16      | 0.26      | 0.12      | 0.20      |
| GEV/H030  | 903  | 0.17      | 0.28      | 0.13      | 0.21      |
| GEV/H030  | 950  | 0.18      | 0.30      | 0.14      | 0.23      |
| GEV/H030  | 998  | 0.19      | 0.32      | 0.16      | 0.25      |
| GEV/H030  | 1045 | 0.20      | 0.34      | 0.17      | 0.27      |
| GEV/H030  | 1093 | 0.21      | 0.36      | 0.18      | 0.29      |
| GEV/H030  | 1140 | 0.22      | 0.38      | 0.20      | 0.31      |
| GEV/H036  | 912  | 0.12      | 0.19      | 0.08      | 0.14      |
| GEV/H036  | 969  | 0.13      | 0.20      | 0.09      | 0.15      |
| GEV/H036  | 1026 | 0.14      | 0.22      | 0.09      | 0.16      |
| GEV/H036  | 1083 | 0.14      | 0.23      | 0.10      | 0.18      |
| GEV/H036  | 1140 | 0.15      | 0.25      | 0.11      | 0.19      |
| GEV/H036  | 1197 | 0.16      | 0.27      | 0.12      | 0.20      |
| GEV/H036  | 1254 | 0.17      | 0.28      | 0.13      | 0.22      |
| GEV/H036  | 1311 | 0.18      | 0.30      | 0.15      | 0.24      |
| GEV/H036  | 1368 | 0.19      | 0.32      | 0.16      | 0.25      |
| GEV/H042  | 1064 | 0.14      | 0.23      | 0.10      | 0.17      |
| GEV/H042  | 1131 | 0.15      | 0.25      | 0.11      | 0.19      |
| GEV/H042  | 1197 | 0.16      | 0.27      | 0.12      | 0.20      |
| GEV/H042  | 1264 | 0.17      | 0.29      | 0.14      | 0.22      |
| GEV/H042  | 1330 | 0.18      | 0.31      | 0.15      | 0.24      |
| GEV/H042  | 1397 | 0.19      | 0.33      | 0.16      | 0.26      |
| GEV/H042  | 1463 | 0.20      | 0.35      | 0.18      | 0.28      |
| GEV/H042  | 1530 | 0.21      | 0.37      | 0.19      | 0.30      |
| GEV/H042  | 1596 | 0.22      | 0.39      | 0.21      | 0.33      |
| GEV/H048  | 1216 | 0.12      | 0.19      | 0.08      | 0.14      |
| GEV/H048  | 1292 | 0.13      | 0.21      | 0.09      | 0.15      |
| GEV/H048  | 1368 | 0.14      | 0.23      | 0.10      | 0.17      |
| GEV/H048  | 1444 | 0.15      | 0.24      | 0.11      | 0.18      |
| GEV/H048  | 1520 | 0.16      | 0.26      | 0.12      | 0.20      |
| GEV/H048  | 1596 | 0.17      | 0.28      | 0.13      | 0.21      |
| GEV/H048  | 1672 | 0.17      | 0.29      | 0.14      | 0.23      |
| GEV/H048  | 1748 | 0.18      | 0.31      | 0.15      | 0.25      |
| GEV/H048  | 1824 | 0.19      | 0.33      | 0.16      | 0.26      |
| GEV/H060  | 1520 | 0.16      | 0.26      | 0.12      | 0.20      |
| GEV/H060  | 1615 | 0.17      | 0.28      | 0.13      | 0.22      |
| GEV/H060  | 1710 | 0.18      | 0.30      | 0.15      | 0.24      |
| GEV/H060  | 1805 | 0.19      | 0.33      | 0.16      | 0.26      |
| GEV/H060  | 1900 | 0.20      | 0.35      | 0.18      | 0.28      |
| GEV/H060  | 1995 | 0.21      | 0.37      | 0.19      | 0.31      |



**Table 146. Added pressure drop through optional filters (inches water column), 0.5 to 5 tons, GE\*006-060 (continued)**

| Model No. | CFM  | 2" MERV 8 | 2" MERV13 | 4" MERV 8 | 4" MERV13 |
|-----------|------|-----------|-----------|-----------|-----------|
| GEV/H060  | 2090 | 0.23      | 0.40      | 0.21      | 0.33      |
| GEV/H060  | 2185 | 0.24      | 0.43      | 0.23      | 0.36      |
| GEV/H060  | 2280 | 0.25      | 0.45      | 0.25      | 0.38      |

**Table 147. Added pressure drop through optional filters (inches water column), 6 to 25 tons, GE\*072-300**

| Model No. | CFM  | MERV 8 | MERV 13 |
|-----------|------|--------|---------|
| GEHK072   | 1920 | 0.09   | 0.10    |
| GEHK072   | 2160 | 0.10   | 0.12    |
| GEHK072   | 2400 | 0.12   | 0.14    |
| GEHK072   | 2640 | 0.13   | 0.15    |
| GEHK072   | 2880 | 0.15   | 0.17    |
| GEHK090   | 2400 | 0.12   | 0.14    |
| GEHK090   | 2700 | 0.13   | 0.16    |
| GEHK090   | 3000 | 0.15   | 0.18    |
| GEHK090   | 3300 | 0.17   | 0.21    |
| GEHK090   | 3600 | 0.19   | 0.23    |
| GEHK120   | 3200 | 0.17   | 0.20    |
| GEHK120   | 3600 | 0.19   | 0.23    |
| GEHK120   | 4000 | 0.22   | 0.27    |
| GEHK120   | 4400 | 0.25   | 0.31    |
| GEHK120   | 4800 | 0.28   | 0.35    |
| GEHK150   | 4000 | 0.17   | 0.20    |
| GEHK150   | 4500 | 0.19   | 0.23    |
| GEHK150   | 5000 | 0.22   | 0.27    |
| GEHK150   | 5500 | 0.25   | 0.31    |
| GEHK150   | 6000 | 0.28   | 0.35    |
| GEHK180   | 4800 | 0.21   | 0.25    |
| GEHK180   | 5400 | 0.24   | 0.30    |
| GEHK180   | 6000 | 0.28   | 0.35    |
| GEHK180   | 6600 | 0.32   | 0.40    |
| GEHK180   | 7200 | 0.36   | 0.46    |
| GEVK072   | 1920 | 0.08   | 0.09    |
| GEVK072   | 2160 | 0.10   | 0.11    |
| GEVK072   | 2400 | 0.11   | 0.12    |
| GEVK072   | 2640 | 0.12   | 0.14    |
| GEVK072   | 2880 | 0.14   | 0.16    |
| GEVK090   | 2400 | 0.11   | 0.12    |
| GEVK090   | 2700 | 0.13   | 0.15    |
| GEVK090   | 3000 | 0.14   | 0.17    |
| GEVK090   | 3300 | 0.16   | 0.19    |



## Unit Fan Performance

**Table 147. Added pressure drop through optional filters (inches water column), 6 to 25 tons, GE\*072-300 (continued)**

| Model No. | CFM   | MERV 8 | MERV 13 |
|-----------|-------|--------|---------|
| GEVK090   | 3600  | 0.18   | 0.21    |
| GEVK120   | 3200  | 0.15   | 0.18    |
| GEVK120   | 3600  | 0.18   | 0.21    |
| GEVK120   | 4000  | 0.20   | 0.25    |
| GEVK120   | 4400  | 0.23   | 0.28    |
| GEVK120   | 4800  | 0.26   | 0.32    |
| GEVK150   | 4000  | 0.09   | 0.11    |
| GEVK150   | 4500  | 0.11   | 0.12    |
| GEVK150   | 5000  | 0.12   | 0.14    |
| GEVK150   | 5500  | 0.14   | 0.16    |
| GEVK150   | 6000  | 0.15   | 0.18    |
| GEVK180   | 4800  | 0.12   | 0.14    |
| GEVK180   | 5400  | 0.13   | 0.16    |
| GEVK180   | 6000  | 0.15   | 0.18    |
| GEVK180   | 6600  | 0.17   | 0.21    |
| GEVK180   | 7200  | 0.19   | 0.23    |
| GEVK240   | 6400  | 0.17   | 0.20    |
| GEVK240   | 7200  | 0.19   | 0.23    |
| GEVK240   | 8000  | 0.22   | 0.27    |
| GEVK240   | 8800  | 0.25   | 0.31    |
| GEVK240   | 9600  | 0.28   | 0.35    |
| GEVK300   | 8000  | 0.22   | 0.27    |
| GEVK300   | 9000  | 0.26   | 0.32    |
| GEVK300   | 10000 | 0.30   | 0.37    |
| GEVK300   | 11000 | 0.34   | 0.43    |
| GEVK300   | 12000 | 0.38   | 0.49    |

**Note:** Added pressure drop should be considered when utilizing optional MERV 8 and MERV 13 filters.



## Controls

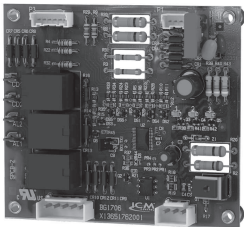
From our industry-leading building automation systems to equipment controls and sensors, Trane offers a complete portfolio of controls products. Trane unit mounted controls are mounted, wired, configured and tested to deliver a high quality product with time savings at the job site. Our building controls are web-based, flexible and scalable, mobile, easy to use and install, and support open standard protocols such as BACnet®.

### Deluxe 24V Electronic Controls

The 24 V deluxe design is a microprocessor-based control board conveniently located in the control box. The board is unique to Trane water-source products and is designed to control the unit as well as provide outputs for unit status and fault detection.

The board is factory wired to a terminal point to provide all necessary terminals for field connections.

**Figure 38. Deluxe 24V control board**



The 24V deluxe design may be applied as a stand-alone control system. The stand-alone design provides accurate temperature control directly through a wall-mounted electronic thermostat.

This system set-up may be utilized in a replacement design where a single unit retrofit is needed. It may be easily interfaced with a field provided control system by way of the factory installed termination point. This stand-alone control is frequently utilized on small jobs where a building controller may not be necessary, or where field installed direct digital controls are specified.

The stand-alone system design provides a low cost option of installation while still allowing room control for each unit. The electric controls includes the following:

- Connection points for low voltage field wiring
- 100 VA Transformer
- Anti-short cycle compressor protection
- Brown out protection
- Compressor contactor
- Compressor delay on start
- Compressor lock-out
- Condensate overflow
- Electric heat and compressor enable (6 to 25 tons)
- Freeze protection
- High pressure switch
- Hot gas reheat
- Low pressure switch
- Low pressure time delay
- Random start delay
- Reversing valve coil
- Soft lockout mode

### Deluxe 24V Features

#### Anti-short Cycle Timer

The anti-short cycle timer provides a three minute time delay between compressor stop and compressor restart.

## **Brown-out Protection**

The brown-out protection function measures the input voltage to the controller and halts the compressor operation. Once a brown-out situation has occurred, the anti-short cycle timer will become energized. The general fault contact will not be affected by this condition. The voltage will continue to be monitored until the voltage increases. The compressors will be enabled at this time if all start-up time delays have expired, and all safeties have been satisfied.

## **Compressor Disable**

The compressor disable relay provides a temporary disable in compressor operation. The signal would be provided from a water loop controller in the system. It would disable the compressor because of low water flow, peak limiting or if the unit goes into an unoccupied state. Once the compressor has been disabled, the anti-short cycle time period will begin. Once the compressor disable signal is no longer present, and all safeties are satisfied, the control will allow the compressor to restart.

## **Diagnostics**

Three LEDs (light emitting diodes) are provided for indicating the operating mode of the controller. See the unit IOM for diagnostics or troubleshooting through the use of the LEDs.

## **Generic Relay**

A generic relay is on the board and may be available for field use. Many factory options utilize this relay, and it will be unavailable for field use in those applications.

A 24 Vac signal will energize the relay coil on terminals R1 and R2. Terminals C (common), NO (normally open), and NC (normally closed) will be provided for the relay contacts.

## **Random Start**

The random start relay provides a time delay start-up of the compressor when cycling in the occupied mode. A new start delay time between 3 and 10 seconds is applied each time power is enabled to the unit.

## **Safety Control**

The deluxe controller receives separate input signals from the refrigerant high pressure switch, low suction pressure switch, freezestat and condensate overflow.

In a high pressure situation, the compressor contactor is de-energized, which suspends compressor operation. The control will go into soft lockout mode initializing a three minute time delay and a random start of 3 to 10 second time delays. Once these delays have expired, the unit will be allowed to run. If a high pressure situation occurs within one hour of the first situation, the control will be placed into a manual lockout mode, halting compressor operation, and initiating the general alarm.

In a low temperature situation, the low pressure switch will transition open after the compressor starts. If the switch is open for 45 seconds during compressor start, the unit will go into soft lockout mode initializing a three minute time delay and a random start of 3 to 10 second time delays. Once these delays have expired, the unit will be allowed to run. If the low pressure situation occurs again within 30 minutes, and the device is open for more than 45 seconds, the control will be placed into a manual lockout mode, halting compressor operation, and initiating the general alarm.

In a condensate overflow situation, the control will go into manual lockout mode, halting compressor operation, and initiating the general alarm.

The general alarm is initiated when the control goes into a manual lockout mode for either high pressure, low pressure, freezestat or condensate overflow conditions.

## **High and Low Pressure Switches**

System safety devices are provided through the use of low/high pressure switches in the refrigeration circuit to help prevent compressor damage. The low pressure switch is set to activate at refrigerant pressures of 40 psig to fit most applications. In cases where a low charge, or excessive loss of charge occurs, each compressor comes equipped with an external overload device to halt the compressor operation.

The high pressure switch prevents compressor operation during high or excessive discharge pressures that exceed 600 psig.

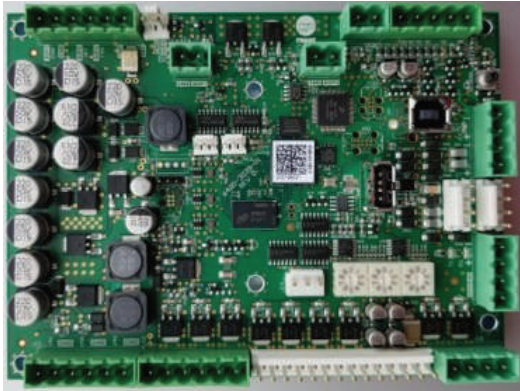
**Figure 39. High and low pressure switches**



## Symbio™/Tracer® Controls

The Symbio 400-B controller offers the combined advantages of simple and dependable operation with the latest Trane-designed controller. Standard control features include options normally available on more elaborate control systems. All control options are available factory-configured or can be field-configured using Tracer® TU for the Symbio 400-B controllers. For more detailed information, see *Symbio™ 400-B/500 Programmable Controllers Water Source Heat Pump (WSHP) - Installation, Operation, and Maintenance* (BAS-SVX092\*-EN). Symbio 400-B is DDC that when applied to water-source equipment provide control of the entire unit, as well as outputs for unit status and fault detection. Each device is factory installed, commissioned, and tested to ensure the highest level of quality in unit design.

**Figure 40. Symbio 400-B**



Each controller feature and option was selected to coordinate with the unit hardware to provide greater energy efficiency and equipment safety to prolong the equipment life.

Trane WSHP with DDC controllers features include 75VA transformer, compressor contactor, compressor lockout function, random start delay, heating/cooling status, occupied/unoccupied mode, low pressure switch, high pressure switch, fan and filter status optional, reversing valve, fan motor, termination points (for low voltage field wiring), condensate overflow and freeze protection. Additional features include two-position water isolation valve support (for variable speed pumping). Optional features include boilerless control for electric heat, waterside economizer, hot gas reheat (for dehumidification) .

### Symbio 400-B/500

The Symbio 400-B/500 is a BTL Listed BACnet® controller that can operate stand-alone or within a Building Automation system such as Tracer SC.

### Symbio 400-B/500 Functions Include:

#### Boilerless Control Electric Heat

The controller supports a single stage of boilerless electric heat operation.

Electric heat is used when boilerless heat is enabled/configured and the EWT is too low for compressor operation. When this condition is met, the two-position isolation valve will be closed shutting down the water flow to the unit.

#### Supplemental Electric Heat (6 to 25 Tons Only)

When the unit is configured for boilerless control, the EWT will be used to determine whether DX heating should be disabled and the electric heater enabled. When these conditions are met, the two-position isolation valve(s) are driven open for three minutes and the entering water temperature reading is taken. The determination as to whether or not to utilize electric heat will be made and the controller will take appropriate action. If boilerless electric heat is enabled, then the isolation valve will be closed, shutting down the water flow to the unit.

When the unit is configured for concurrent operation of DX heating (compressor in heat pump mode) and electric heat, the electric heat will act as a second stage of heat for single compressor units, and a third stage of heat for dual compressor units.

To confirm belt-drive fan system is operational for safety purposes, all 6 to 25 ton units configured with electric heat includes a fan-proving switch installed from the factory.

**Note:** With concurrent (or supplemental) electric heat, the electric heater is field provided.

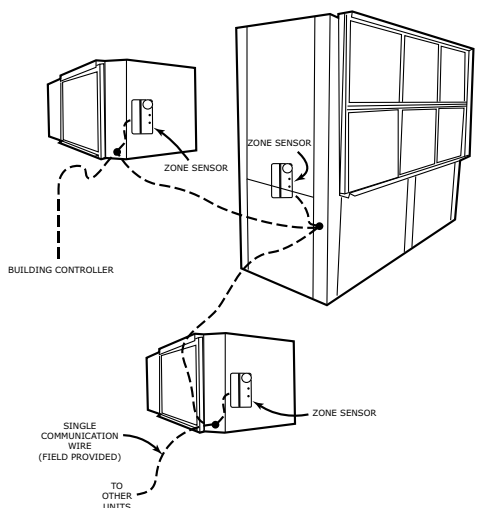
## Compressor Operation

The compressor is cycled on and off to meet heating or cooling zone demands. Units (for 6 to 25 tons, single and dual compressor) use the unit capacity and pulse width modulation (PWM) logic along with minimum on/off timers to determine the compressor's operation. The compressor is controlled ON for longer periods as capacity increases and shorter periods as capacity decreases.

## Condensate Overflow

When condensate reaches the trip point, a condensate overflow signal generates a diagnostic which disables the fan, unit water valves (if present), and compressor. The unit will remain in a halted state until the condensation returns to a normal level. At this time, the switch in the drain pan will automatically reset. However, the controller's condensate overflow diagnostic must be manually reset to clear the diagnostic and restart the unit.

**Figure 41. Building control advantages**



The Symbio 400-B/500 controllers have the ability to share information with one or several units on the same communication link.

An advantage of installing a Symbio 400-B/500 is its capability to work with other BACnet® controllers. This provides greater flexibility to the building owner, as well as greater flexibility in design.

Integrating the Symbio 400-B/500 on water-source equipment, and tying it to a Tracer SC or other BAS system provides a complete building management system. With a Building Automation system like a Tracer SC, the system can initiate an alarm on a loss of performance on equipment malfunctions; allowing problems to be handled in a timely manner before compromising comfort.

This type of application would most commonly be used for a large space(s) that may require more than one unit. In addition to this application design, Symbio 400-B/500 controller provides a way for units located within the same space to share the same zone sensor to prevent units from simultaneously heating and cooling in the same space.

**Note:** The sharing of information is made possible with a twisted pair of wire and a building automation system or through Trane's service tools

## Data Sharing

The Symbio 400-B/500 controller are capable of sending or receiving data (setpoints, fan request, or space temperature) to and from other controllers on the communication link. This allows multiple units to share a common space temperature sensor in both stand-alone and building automation applications.

## Dehumidification

Dehumidification<sup>24</sup> for the water-source heat pump is applicable with the Symbio 400-B/500. The controller is capable of directing one stage of DX cooling in conjunction with one stage of reheat (hot gas reheat).

<sup>24</sup> For 6 to 25 ton units, applicable to single and dual circuited

Dehumidification can only occur when the controller is in the cooling mode. A humidity sensor is used to measure the zones relative humidity (RH), then compares the zone relative humidity to the relative humidity enable/disable setpoint parameters. The dehumidification enable and disable points are configurable.

## **Fan Operation**

The supply air fan operates at the predetermined speed in the occupied or occupied standby mode. When switch is set to AUTO, the fan is configured for cycling ON with heating or cooling. In heat mode, the fan will run for 30 seconds beyond compressor shutdown in both occupied and unoccupied mode.

## **Filter Maintenance Timer**

The controller filter status is based on the unit fans cumulative run hours. The controller compares the fan run time against an adjustable fan run hours limit and recommends unit maintenance as required.

## **High and Low Pressure Switches**

The Symbio 400-B/500 detects the state of the high pressure or low pressure switches. When a fault is sensed by one of these switches, the corresponding message is sent to the controller to be logged into the fault log. When the circuit returns to normal, the high pressure control and low pressure control automatically reset. If a second fault is detected within a thirty-minute time span, the unit must be manually reset.

## **Occupancy Modes**

The four operations of the Symbio 400-B/500 controller include occupied, occupied standby, occupied bypass and unoccupied.

In an occupied situation, the controller uses occupied heating and cooling setpoints to provide heating and cooling to the building. This occupied operation is normally used during the daytime hours when the building is at the highest occupancy level.

In an occupied standby situation, the controllers heating and cooling setpoints are usually wider than the occupied setpoints. This occupied standby operation is used during daytime hours when people are not present in the space (such as lunchtime or recess). To determine the space occupancy, an occupancy sensor is applied.

In an unoccupied situation, the controller assumes the building is vacant, which normally falls in evening hours when a space may be empty. In the unoccupied mode, the controller uses the default unoccupied heating and cooling setpoints stored in the controller. When the building is in unoccupied mode, individual units may be manually placed into timed override of the unoccupied mode at the units wall sensor. During timed override, the controller interprets the request and initiates the occupied setpoint operation, then reports the effective occupancy mode as occupied bypass.

In the occupied bypass mode, the controller applies the occupied heating and cooling setpoint for a 120-minute time limit.

## **Random Start**

To prevent all of the units in a building from energizing major loads at the same time, the controller observes a random start from 0 to 25 seconds. This timer halts the controller until the random start time expires.

## **Reversing Valve Operation**

For cooling, the reversing valve output is energized simultaneously with the compressor. It will remain energized until the controller turns on the compressor for heating. At this time, the reversing valve moves to a de-energized state. In the event of a power failure or controller OFF situation, the reversing valve output will default to the heating (de-energized) state.

## **Entering Water Temperature Sampling**

The controller will sample the entering water temperature to determine proper control action for units equipped with boilerless electric heat or waterside economizer.

## **Waterside Economizer**

Entering water temperature (EWT) sampling will automatically occur at power up when the unit is equipped with a waterside economizer (WSE). The EWT is used to determine if economizing is feasible. When the conditions are met, the two-position isolation valve(s) are driven open for three minutes and the EWT reading is taken. The determination as to whether or not the economizer can be enabled will be made and the controller will take appropriate action. The isolation valve will remain open regardless if the WSE or the DX cooling is enabled.

The unit's waterside economizer will contain a 2-position water valve wired to the controller. The economizing water coil will be optimized to provide 100% of the unit capacity at 80.6°F/66.2°F return air temperature with 45°F entering water. The flow rate is established at 86 F entering water temperature and 96°F leaving water temperature.

Low leaving air protection will be furnished to protect the unit against delivering air that is cold enough to sweat discharge air grilles. Coil icing protection will also be provided.



## Controls

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Waterside economizer cooling will be active during occupied, unoccupied and standby cooling modes.

### Water Isolation Valve

Variable speed pumping systems are supported by the controller when two-position water isolation valves (12 VA max) are present. The valves are normally closed unless DX heating, DX cooling, waterside economizer or dehumidification is requested. When the two-position isolation valves are driven open for operation, the outputs will be driven for 20 seconds to ensure adequate water flow before the compressor outputs are energized.

### Isolation Valve “ON” Control

The two-position isolation valve output will be energized (controlled open) during compressor heating, compressor cooling, waterside economizing or dehumidification.

When the isolation valve is driven open for compressor operation, the output will be energized 20 seconds (configurable) prior to the compressor and indoor fan (if not already energized) outputs to ensure adequate water flow to the heat exchanger.

### Isolation Valve “OFF” Control

The two-position isolation valve output will be de-energized (controlled closed) when there is no longer a call for compressor or WSE operation. The valve will remain open for 1 minute after call to disable compressor or WSE.

## Trane® Air-Fi® Wireless Systems



Trane Air-Fi wireless systems provides significant advantages to better meet customer by providing a lower initial cost; ease of installation for reduced risk; increased reliability and flexibility for easier problem solving; and fewer maintenance issues for worry-free operation and cost savings over the life of the system. Trane Air-Fi wireless systems helps save time and money, with industry-leading technology and performance.

### Air-Fi® Wireless Communications Interface (WCI)

The Air-Fi® Wireless Communications Interface (WCI) enables wireless communications between system controls, unit controls, and wireless sensors for Trane control products that use the BACnet® protocol. The WCI replaces the need for communications wire in all system applications.

### Air-Fi® Wireless Communications Sensor (WCS)

The Air-Fi Wireless Communications Sensor (WCS) is compatible with any Trane controller that uses a WCI, except the Tracer SC. The WCS provides the same functions as many currently available Trane wired sensors. No further software or hardware is necessary for site evaluation, installation, or maintenance. Space temperature is standard on all models. (A service tool cannot be connected to a Trane wireless sensor.)

Three WCS models are available:

- Digital display (WCS-SD) model
- Base (WCS-SB) model has no exposed display or user interface
- 2% relative humidity sensor module (WCS-SH), which can be field installed inside either the WCS-SD or WCS-SB

In most applications, one WCS-SD or WCS-SB sensor will be used per WCI acting as a router. However, up to six (6) WCS-SD or WCS-SB sensors can be associated to a single equipment controller or BCI.

### Compatibility with Previous Generation Wireless Zone Products

Our previous line of wireless zone sensors (WZS, WTS, and WDS) are not compatible with the Air-Fi® Wireless Communications Interface (WCI).

The new Air-Fi Wireless Communications Sensor (WCS) are compatible with old WCIs that have updated firmware.



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## **Wired Zone Sensors**

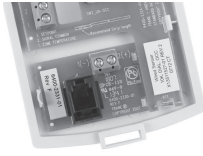
Wired zone sensors can be used with Air-Fi® wireless systems.

# Thermostats and Zone Sensors

**Table 148. Thermostat selection for use with the deluxe controller**

| Thermostat                                                                          | Part Number             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | X13511535010            | 1 Heat/1 Cool, non-programmable commercial thermostat for conventional air conditioners and heat pumps that are configured without auxiliary heat <ul style="list-style-type: none"> <li>• 1 H/1 C</li> </ul>                                                                                                                                                                                                                                                                                                      |
|    | X13511536010            | 3 Heat/2 Cool, non-programmable commercial thermostat for conventional air conditioners and heat pumps that are configured with or without auxiliary heat. <ul style="list-style-type: none"> <li>• 3 H/2 C</li> </ul>                                                                                                                                                                                                                                                                                             |
|   | X13511537010            | 3 Heat/2 Cool, programmable commercial thermostat for conventional (rooftop) air conditioners and heat pumps that are configured with or without auxiliary heat. <ul style="list-style-type: none"> <li>• 3 H/2 C</li> </ul>                                                                                                                                                                                                                                                                                       |
|  | X13511538010            | 3Heat/2 Cool, programmable touch screen thermostat for conventional air conditioners and heat pump systems.<br>The thermostat will provide the human interface, zone temperature sensing both local and optional remote temperature sensing, and setpoint scheduling on a daily/weekly basis.<br>This thermostat can also display humidity with a control signal for dehumidification with a local humidity sensor or optional remote humidity sensor. <ul style="list-style-type: none"> <li>• 3 H/2 C</li> </ul> |
|  | Pivot — BAYSTAT814A-W.  | Pivot Smart Thermostat is a Wi-Fi/ethernet thermostat for commercial applications. It has a very simple interface for occupants to adjust the thermostat. Cooling and heating control of multiple systems is made even easier and faster when connected to the Pivot App. Supports 2 stage heat pump with auxiliary heat.                                                                                                                                                                                          |
|  | XL824 - TCONT824AS52DB. | The XL824 Smart thermostat is a Wi-Fi/ethernet thermostat for Residential applications such as single family homes, condominiums and apartments. Supports 2 stage heat pump with auxiliary heat. The XL824 can be connected to the Nexia Home App and other home automation systems.                                                                                                                                                                                                                               |

**Table 149. Zone sensor selection for use with Symbio™ 400-B/500 controller**

| Sensor                                                                              | Part Number  | Description                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | X13790886010 | <p>Wired temperature sensor with an LCD display</p> <ul style="list-style-type: none"> <li>Allows an occupant to control the temperature setpoint, request timed override of system operation, and provides a COMM module to service technicians.</li> <li>Symbio 400-B/500 Compatible</li> </ul> |
|    | X13651467020 | <p>Communication Module</p> <ul style="list-style-type: none"> <li>Sold in packs of 12</li> <li>Provides local RJ22 connection to Trane® service tools for easy, low cost maintenance.</li> </ul>                                                                                                 |
|    | X13511529010 | <p>Zone Sensor</p> <ul style="list-style-type: none"> <li>Symbio 400-B/500 compatible</li> <li>External setpoint adjustment wheel</li> </ul>                                                                                                                                                      |
|   | X13511527010 | <p>Zone Sensor</p> <ul style="list-style-type: none"> <li>Symbio 400-B/500 compatible</li> <li>External setpoint adjustment wheel</li> <li>ON and CANCEL buttons</li> </ul>                                                                                                                       |
|  | X1379084501  | <p>Zone Sensor</p> <ul style="list-style-type: none"> <li>Symbio 400-B/500 compatible</li> <li>External setpoint adjustment wheel</li> <li>ON and CANCEL buttons</li> <li>Fan switch AUTO-OFF</li> </ul>                                                                                          |
|  | X1379044401  | <p>Temperature and relative humidity sensor</p> <ul style="list-style-type: none"> <li>Symbio 400-B/500 compatible</li> </ul>                                                                                                                                                                     |

## Thermostats and Zone Sensors

**Table 149. Zone sensor selection for use with Symbio™ 400-B/500 controller (continued)**

| Sensor                                                                             | Part Number  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | X13790993001 | <p>Commercial Touch Screen Programmable Zone Sensor</p> <ul style="list-style-type: none"> <li>• Supports Standby, Occupied, and Unoccupied</li> <li>• 7 day, 5+2 day, and 5+1+1 day</li> <li>• Cannot be used with BAS as sensor ties up BACnet link. For use with factory-programmed Symbio 400-B/500.</li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• <i>Adjusting the rotary switch on Symbio 400-B/500 may be required to correspond address configuration in the sensor. See the installation manual for more information.</i></li> <li>• <i>Additional configuration is needed in the field to use the Programmable zone sensors (to put BAS points in service on Symbio 400-B/500).</i></li> </ul> |
|  | X13790992001 | <p>Residential Touch Screen Programmable Zone Sensor</p> <ul style="list-style-type: none"> <li>• Supports Awake, Away, Home, and Sleep</li> <li>• 7 day, 5+2 day, and 5+1+1 day</li> <li>• Cannot be used with BAS as sensor ties up BACnet link. For use with factory-programmed Symbio 400-B/500.</li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• <i>Adjusting the rotary switch on Symbio 400-B/500 may be required to correspond address configuration in the sensor. See the installation manual for more information.</i></li> <li>• <i>Additional configuration is needed in the field to use the Programmable zone sensors (to put BAS points in service on Symbio 400-B/500).</i></li> </ul>     |

**Table 150. Wireless zone sensor selection for use with Symbio 400-B/500 controller**

| Sensor                                                                              | Part Number  | Description                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | X13790955010 | <p>Trane Air-Fi® WCS-SD (display)</p> <ul style="list-style-type: none"> <li>• Symbio 400-B/500 Compatible</li> <li>• Easy-to-use interface for clear and simple monitoring and control</li> </ul>                                                 |
|  | X13790956010 | <p>Trane Air-Fi WCS-SB (base)</p> <ul style="list-style-type: none"> <li>• Symbio 400-B/500 Compatible</li> <li>• Simplicity</li> <li>• Eliminates local temperature control when higher control level is required.</li> </ul>                     |
|  | X13790973030 | <p>Wireless communications sensor accessory—2% relative humidity (RH) sensor module (WCS-SH)</p> <p>The optional RH sensor module plugs in to any WCS model, further simplifying installation by eliminating the needed for additional wiring.</p> |



# Electrical Data

**Table 151. Electrical data single speed blower motor (6 to 25 tons)**

| Model No. | Volts    | Total Unit FLA | Comp RLA (ea) | Comp LRA (ea) | No. of Comp. | Blower Motor FLA | Blower Motor hp | Fan Motor Num | Minimum Circuit Ampacity | Maximum Overcurrent Protective Device |
|-----------|----------|----------------|---------------|---------------|--------------|------------------|-----------------|---------------|--------------------------|---------------------------------------|
| GEHK072   | 208/60/1 | 39.9           | 16.7          | 93.5          | 2            | 6.50             | 1               | 1             | 44.1                     | 60                                    |
| GEHK072   | 230/60/1 | 39.9           | 16.7          | 93.5          | 2            | 6.50             | 1               | 1             | 44.1                     | 60                                    |
| GEHK072   | 208/60/1 | 42.7           | 16.7          | 93.5          | 2            | 9.30             | 1.5             | 1             | 46.9                     | 60                                    |
| GEHK072   | 230/60/1 | 42.3           | 16.7          | 93.5          | 2            | 8.90             | 1.5             | 1             | 46.5                     | 60                                    |
| GEHK072   | 208/60/1 | 44.6           | 16.7          | 93.5          | 2            | 11.20            | 2               | 1             | 48.8                     | 60                                    |
| GEHK072   | 230/60/1 | 43.6           | 16.7          | 93.5          | 2            | 10.20            | 2               | 1             | 47.8                     | 60                                    |
| GEHK072   | 208/60/3 | 27.9           | 12.2          | 97.5          | 2            | 3.50             | 1               | 1             | 31.0                     | 40                                    |
| GEHK072   | 230/60/3 | 28.2           | 12.2          | 97.5          | 2            | 3.80             | 1               | 1             | 31.3                     | 40                                    |
| GEHK072   | 460/60/3 | 13.4           | 5.8           | 44.3          | 2            | 1.80             | 1               | 1             | 14.9                     | 20                                    |
| GEHK072   | 208/60/3 | 30.0           | 12.2          | 97.5          | 2            | 5.60             | 1.5             | 1             | 33.1                     | 45                                    |
| GEHK072   | 230/60/3 | 29.2           | 12.2          | 97.5          | 2            | 4.80             | 1.5             | 1             | 32.3                     | 40                                    |
| GEHK072   | 460/60/3 | 14.0           | 5.8           | 44.3          | 2            | 2.40             | 1.5             | 1             | 15.5                     | 20                                    |
| GEHK072   | 208/60/3 | 31.5           | 12.2          | 97.5          | 2            | 7.10             | 2               | 1             | 34.6                     | 45                                    |
| GEHK072   | 230/60/3 | 30.6           | 12.2          | 97.5          | 2            | 6.20             | 2               | 1             | 33.7                     | 45                                    |
| GEHK072   | 460/60/3 | 14.7           | 5.8           | 44.3          | 2            | 3.10             | 2               | 1             | 16.2                     | 20                                    |
| GEHK090   | 208/60/3 | 29.2           | 12.2/13.5     | 97.5/120.4    | 2            | 3.50             | 1               | 1             | 32.6                     | 45                                    |
| GEHK090   | 230/60/3 | 29.5           | 12.2/13.5     | 97.5/120.4    | 2            | 3.80             | 1               | 1             | 32.9                     | 45                                    |
| GEHK090   | 460/60/3 | 14.0           | 5.8/6.4       | 44.3/50       | 2            | 1.80             | 1               | 1             | 15.6                     | 20                                    |
| GEHK090   | 208/60/3 | 31.3           | 12.2/13.5     | 97.5/120.4    | 2            | 5.60             | 1.5             | 1             | 34.7                     | 45                                    |
| GEHK090   | 230/60/3 | 30.5           | 12.2/13.5     | 97.5/120.4    | 2            | 4.80             | 1.5             | 1             | 33.9                     | 45                                    |
| GEHK090   | 460/60/3 | 14.6           | 5.8/6.4       | 44.3/50       | 2            | 2.40             | 1.5             | 1             | 16.2                     | 20                                    |
| GEHK090   | 208/60/3 | 32.8           | 12.2/13.5     | 97.5/120.4    | 2            | 7.10             | 2               | 1             | 36.2                     | 45                                    |
| GEHK090   | 230/60/3 | 31.9           | 12.2/13.5     | 97.5/120.4    | 2            | 6.20             | 2               | 1             | 35.3                     | 45                                    |
| GEHK090   | 460/60/3 | 15.3           | 5.8/6.4       | 44.3/50       | 2            | 3.10             | 2               | 1             | 16.9                     | 20                                    |
| GEHK090   | 575/60/3 | 11.9           | 4.5/5.1       | 27.1/41       | 2            | 2.30             | 2               | 1             | 13.2                     | 15                                    |
| GEHK090   | 208/60/3 | 35.1           | 12.2/13.5     | 97.5/120.4    | 2            | 9.40             | 3               | 1             | 38.5                     | 50                                    |
| GEHK090   | 230/60/3 | 33.9           | 12.2/13.5     | 97.5/120.4    | 2            | 8.20             | 3               | 1             | 37.3                     | 50                                    |
| GEHK090   | 460/60/3 | 16.3           | 5.8/6.4       | 44.3/50       | 2            | 4.10             | 3               | 1             | 17.9                     | 20                                    |
| GEHK090   | 575/60/3 | 12.9           | 4.5/5.1       | 27.1/41       | 2            | 3.30             | 3               | 1             | 14.2                     | 15                                    |
| GEHK120   | 208/60/3 | 37.6           | 16.0          | 156.4         | 2            | 5.60             | 1.5             | 1             | 41.6                     | 50                                    |
| GEHK120   | 230/60/3 | 36.8           | 16.0          | 156.4         | 2            | 4.80             | 1.5             | 1             | 40.8                     | 50                                    |
| GEHK120   | 460/60/3 | 16.6           | 7.1           | 69.0          | 2            | 2.40             | 1.5             | 1             | 18.4                     | 25                                    |
| GEHK120   | 208/60/3 | 39.1           | 16.0          | 156.4         | 2            | 7.10             | 2               | 1             | 43.1                     | 50                                    |
| GEHK120   | 230/60/3 | 38.2           | 16.0          | 156.4         | 2            | 6.20             | 2               | 1             | 42.2                     | 50                                    |
| GEHK120   | 460/60/3 | 17.3           | 7.1           | 69.0          | 2            | 3.10             | 2               | 1             | 19.1                     | 25                                    |
| GEHK120   | 575/60/3 | 15.1           | 6.4           | 47.8          | 2            | 2.30             | 2               | 1             | 16.7                     | 20                                    |
| GEHK120   | 208/60/3 | 41.4           | 16.0          | 156.4         | 2            | 9.40             | 3               | 1             | 45.4                     | 60                                    |



## Electrical Data

**Table 151. Electrical data single speed blower motor (6 to 25 tons) (continued)**

| Model No. | Volts    | Total Unit FLA | Comp RLA (ea) | Comp LRA (ea) | No. of Comp. | Blower Motor FLA | Blower Motor hp | Fan Motor Num | Minimum Circuit Ampacity | Maximum Overcurrent Protective Device |
|-----------|----------|----------------|---------------|---------------|--------------|------------------|-----------------|---------------|--------------------------|---------------------------------------|
| GEHK120   | 230/60/3 | 40.2           | 16.0          | 156.4         | 2            | 8.20             | 3               | 1             | 44.2                     | 60                                    |
| GEHK120   | 460/60/3 | 18.3           | 7.1           | 69.0          | 2            | 4.10             | 3               | 1             | 20.1                     | 25                                    |
| GEHK120   | 575/60/3 | 16.1           | 6.4           | 47.8          | 2            | 3.30             | 3               | 1             | 17.7                     | 20                                    |
| GEHK120   | 208/60/3 | 46.0           | 16.0          | 156.4         | 2            | 14.00            | 5               | 1             | 50.0                     | 60                                    |
| GEHK120   | 230/60/3 | 45.0           | 16.0          | 156.4         | 2            | 13.00            | 5               | 1             | 49.0                     | 60                                    |
| GEHK120   | 460/60/3 | 20.7           | 7.1           | 69.0          | 2            | 6.50             | 5               | 1             | 22.5                     | 25                                    |
| GEHK120   | 575/60/3 | 18.1           | 6.4           | 47.8          | 2            | 5.30             | 5               | 1             | 19.7                     | 25                                    |
| GEHK150   | 208/60/3 | 50.4           | 22.4          | 166.2         | 2            | 5.60             | 1.5             | 1             | 56.0                     | 70                                    |
| GEHK150   | 230/60/3 | 49.6           | 22.4          | 166.2         | 2            | 4.80             | 1.5             | 1             | 55.2                     | 70                                    |
| GEHK150   | 460/60/3 | 20.8           | 9.2           | 74.6          | 2            | 2.40             | 1.5             | 1             | 23.1                     | 30                                    |
| GEHK150   | 575/60/3 | 16.7           | 7.2           | 54.0          | 2            | 2.30             | 2               | 1             | 18.5                     | 25                                    |
| GEHK150   | 208/60/3 | 51.9           | 22.4          | 166.2         | 2            | 7.10             | 2               | 1             | 57.5                     | 70                                    |
| GEHK150   | 230/60/3 | 51.0           | 22.4          | 166.2         | 2            | 6.20             | 2               | 1             | 56.6                     | 70                                    |
| GEHK150   | 460/60/3 | 21.5           | 9.2           | 74.6          | 2            | 3.11             | 2               | 1             | 23.8                     | 30                                    |
| GEHK150   | 575/60/3 | 16.7           | 7.2           | 54.0          | 2            | 2.30             | 2               | 1             | 18.5                     | 25                                    |
| GEHK150   | 208/60/3 | 54.2           | 22.4          | 166.2         | 2            | 9.40             | 3               | 1             | 59.8                     | 80                                    |
| GEHK150   | 230/60/3 | 53.0           | 22.4          | 166.2         | 2            | 8.20             | 3               | 1             | 58.6                     | 80                                    |
| GEHK150   | 460/60/3 | 22.5           | 9.2           | 74.6          | 2            | 4.10             | 3               | 1             | 24.8                     | 30                                    |
| GEHK150   | 575/60/3 | 17.7           | 7.2           | 54.0          | 2            | 3.30             | 3               | 1             | 19.5                     | 25                                    |
| GEHK150   | 208/60/3 | 58.8           | 22.4          | 166.2         | 2            | 14.00            | 5               | 1             | 64.4                     | 80                                    |
| GEHK150   | 230/60/3 | 57.8           | 22.4          | 166.2         | 2            | 13.00            | 5               | 1             | 63.4                     | 80                                    |
| GEHK150   | 460/60/3 | 24.9           | 9.2           | 74.6          | 2            | 6.50             | 5               | 1             | 27.2                     | 35                                    |
| GEHK150   | 575/60/3 | 19.7           | 7.2           | 54.0          | 2            | 5.30             | 5               | 1             | 21.5                     | 25                                    |
| GEHK180   | 208/60/3 | 62.5           | 27.7          | 191.0         | 2            | 7.10             | 2               | 1             | 69.4                     | 90                                    |
| GEHK180   | 230/60/3 | 61.6           | 27.7          | 191.0         | 2            | 6.20             | 2               | 1             | 68.5                     | 90                                    |
| GEHK180   | 460/60/3 | 26.1           | 11.5          | 103.0         | 2            | 3.11             | 2               | 1             | 29.0                     | 40                                    |
| GEHK180   | 575/60/3 | 20.3           | 9.0           | 78.0          | 2            | 2.30             | 2               | 1             | 22.6                     | 30                                    |
| GEHK180   | 208/60/3 | 64.8           | 27.7          | 191.0         | 2            | 9.40             | 3               | 1             | 71.7                     | 90                                    |
| GEHK180   | 230/60/3 | 63.6           | 27.7          | 191.0         | 2            | 8.20             | 3               | 1             | 70.5                     | 90                                    |
| GEHK180   | 460/60/3 | 27.1           | 11.5          | 103.0         | 2            | 4.10             | 3               | 1             | 30.0                     | 40                                    |
| GEHK180   | 575/60/3 | 21.3           | 9.0           | 78.0          | 2            | 3.30             | 3               | 1             | 23.6                     | 30                                    |
| GEHK180   | 208/60/3 | 69.4           | 27.7          | 191.0         | 2            | 14.00            | 5               | 1             | 76.3                     | 100                                   |
| GEHK180   | 230/60/3 | 68.4           | 27.7          | 191.0         | 2            | 13.00            | 5               | 1             | 75.3                     | 100                                   |
| GEHK180   | 460/60/3 | 29.5           | 11.5          | 103.0         | 2            | 6.50             | 5               | 1             | 32.4                     | 40                                    |
| GEHK180   | 575/60/3 | 23.3           | 9.0           | 78.0          | 2            | 5.30             | 5               | 1             | 25.6                     | 30                                    |
| GEHK180   | 208/60/3 | 75.4           | 27.7          | 191.0         | 2            | 20.00            | 7.5             | 1             | 82.3                     | 110                                   |
| GEHK180   | 230/60/3 | 74.8           | 27.7          | 191.0         | 2            | 19.40            | 7.5             | 1             | 81.7                     | 100                                   |
| GEHK180   | 460/60/3 | 32.7           | 11.5          | 103.0         | 2            | 9.70             | 7.5             | 1             | 35.6                     | 45                                    |
| GEHK180   | 575/60/3 | 26.0           | 9             | 78            | 2            | 8.00             | 7.5             | 1             | 28.3                     | 35                                    |

**Table 151. Electrical data single speed blower motor (6 to 25 tons) (continued)**

| Model No. | Volts    | Total Unit FLA | Comp RLA (ea) | Comp LRA (ea) | No. of Comp. | Blower Motor FLA | Blower Motor hp | Fan Motor Num | Minimum Circuit Ampacity | Maximum Overcurrent Protective Device |
|-----------|----------|----------------|---------------|---------------|--------------|------------------|-----------------|---------------|--------------------------|---------------------------------------|
| GEVK072   | 208/60/1 | 39.9           | 16.7          | 93.5          | 2            | 6.55             | 1               | 1             | 44.1                     | 60                                    |
| GEVK072   | 230/60/1 | 39.9           | 16.7          | 93.5          | 2            | 6.50             | 1               | 1             | 44.1                     | 60                                    |
| GEVK072   | 208/60/1 | 42.7           | 16.7          | 93.5          | 2            | 9.30             | 1.5             | 1             | 46.9                     | 60                                    |
| GEVK072   | 230/60/1 | 42.3           | 16.7          | 93.5          | 2            | 8.90             | 1.5             | 1             | 46.5                     | 60                                    |
| GEVK072   | 208/60/1 | 44.6           | 16.7          | 93.5          | 2            | 11.20            | 2               | 1             | 48.8                     | 60                                    |
| GEVK072   | 230/60/1 | 43.6           | 16.7          | 93.5          | 2            | 10.23            | 2               | 1             | 47.8                     | 60                                    |
| GEVK072   | 208/60/3 | 27.9           | 12.2          | 97.5          | 2            | 3.50             | 1               | 1             | 31.0                     | 40                                    |
| GEVK072   | 230/60/3 | 28.2           | 12.2          | 97.5          | 2            | 3.80             | 1               | 1             | 31.3                     | 40                                    |
| GEVK072   | 460/60/3 | 13.4           | 5.8           | 44.3          | 2            | 1.80             | 1               | 1             | 14.9                     | 20                                    |
| GEVK072   | 208/60/3 | 30.0           | 12.2          | 97.5          | 2            | 5.60             | 1.5             | 1             | 33.1                     | 45                                    |
| GEVK072   | 230/60/3 | 29.2           | 12.2          | 97.5          | 2            | 4.80             | 1.5             | 1             | 32.3                     | 40                                    |
| GEVK072   | 460/60/3 | 14.0           | 5.8           | 44.3          | 2            | 2.40             | 1.5             | 1             | 15.5                     | 20                                    |
| GEVK072   | 208/60/3 | 31.5           | 12.2          | 97.5          | 2            | 7.10             | 2               | 1             | 34.6                     | 45                                    |
| GEVK072   | 230/60/3 | 30.6           | 12.2          | 97.5          | 2            | 6.20             | 2               | 1             | 33.7                     | 45                                    |
| GEVK072   | 460/60/3 | 14.7           | 5.8           | 44.3          | 2            | 3.11             | 2               | 1             | 16.2                     | 20                                    |
| GEVK090   | 208/60/3 | 29.2           | 12.2/13.5     | 97.5/120.4    | 2            | 3.50             | 1               | 1             | 32.6                     | 45                                    |
| GEVK090   | 230/60/3 | 29.5           | 12.2/13.5     | 97.5/120.4    | 2            | 3.80             | 1               | 1             | 32.9                     | 45                                    |
| GEVK090   | 460/60/3 | 14.0           | 5.8/6.4       | 44.3/50       | 2            | 1.80             | 1               | 1             | 15.6                     | 20                                    |
| GEVK090   | 208/60/3 | 29.2           | 12.2/13.5     | 97.5/120.4    | 2            | 3.50             | 1               | 1             | 32.6                     | 45                                    |
| GEVK090   | 230/60/3 | 27.5           | 12.2/13.5     | 97.5/120.4    | 2            | 1.80             | 1               | 1             | 30.9                     | 40                                    |
| GEVK090   | 460/60/3 | 15.7           | 5.8/6.4       | 44.3/50       | 2            | 3.50             | 1               | 1             | 17.3                     | 20                                    |
| GEVK090   | 208/60/3 | 31.3           | 12.2/13.5     | 97.5/120.4    | 2            | 5.60             | 1.5             | 1             | 34.7                     | 45                                    |
| GEVK090   | 230/60/3 | 30.5           | 12.2/13.5     | 97.5/120.4    | 2            | 4.80             | 1.5             | 1             | 33.9                     | 45                                    |
| GEVK090   | 460/60/3 | 14.6           | 5.8/6.4       | 44.3/50       | 2            | 2.40             | 1.5             | 1             | 16.2                     | 20                                    |
| GEVK090   | 208/60/3 | 31.3           | 12.2/13.5     | 97.5/120.4    | 2            | 5.60             | 1.5             | 1             | 34.7                     | 45                                    |
| GEVK090   | 230/60/3 | 30.5           | 12.2/13.5     | 97.5/120.4    | 2            | 4.80             | 1.5             | 1             | 33.9                     | 45                                    |
| GEVK090   | 460/60/3 | 14.6           | 5.8/6.4       | 44.3/50       | 2            | 2.40             | 1.5             | 1             | 16.2                     | 20                                    |
| GEVK090   | 208/60/3 | 31.3           | 12.2/13.5     | 97.5/120.4    | 2            | 5.60             | 1.5             | 1             | 34.7                     | 45                                    |
| GEVK090   | 230/60/3 | 30.5           | 12.2/13.5     | 97.5/120.4    | 2            | 4.80             | 1.5             | 1             | 33.9                     | 45                                    |
| GEVK090   | 460/60/3 | 14.6           | 5.8/6.4       | 44.3/50       | 2            | 2.40             | 1.5             | 1             | 16.2                     | 20                                    |
| GEVK090   | 208/60/3 | 32.8           | 12.2/13.5     | 97.5/120.4    | 2            | 7.10             | 2               | 1             | 36.2                     | 45                                    |
| GEVK090   | 230/60/3 | 31.9           | 12.2/13.5     | 97.5/120.4    | 2            | 6.20             | 2               | 1             | 35.3                     | 45                                    |
| GEVK090   | 460/60/3 | 15.3           | 5.8/6.4       | 44.3/50       | 2            | 3.11             | 2               | 1             | 16.9                     | 20                                    |
| GEVK090   | 575/60/3 | 11.9           | 4.5/5.1       | 27.1/41       | 2            | 2.30             | 2               | 1             | 13.2                     | 15                                    |
| GEVK090   | 208/60/3 | 32.8           | 12.2/13.5     | 97.5/120.4    | 2            | 7.10             | 2               | 1             | 36.2                     | 45                                    |
| GEVK090   | 230/60/3 | 31.9           | 12.2/13.5     | 97.5/120.4    | 2            | 6.20             | 2               | 1             | 35.3                     | 45                                    |
| GEVK090   | 460/60/3 | 15.3           | 5.8/6.4       | 44.3/50       | 2            | 3.11             | 2               | 1             | 16.9                     | 20                                    |
| GEVK090   | 575/60/3 | 11.9           | 4.5/5.1       | 27.1/41       | 2            | 2.30             | 2               | 1             | 13.2                     | 15                                    |
| GEVK090   | 208/60/3 | 35.1           | 12.2/13.5     | 97.5/120.4    | 2            | 9.40             | 3               | 1             | 38.5                     | 50                                    |



## Electrical Data

**Table 151. Electrical data single speed blower motor (6 to 25 tons) (continued)**

| Model No. | Volts    | Total Unit FLA | Comp RLA (ea) | Comp LRA (ea) | No. of Comp. | Blower Motor FLA | Blower Motor hp | Fan Motor Num | Minimum Circuit Ampacity | Maximum Overcurrent Protective Device |
|-----------|----------|----------------|---------------|---------------|--------------|------------------|-----------------|---------------|--------------------------|---------------------------------------|
| GEVK090   | 230/60/3 | 33.9           | 12.2/13.5     | 97.5/120.4    | 2            | 8.20             | 3               | 1             | 37.3                     | 50                                    |
| GEVK090   | 460/60/3 | 16.3           | 5.8/6.4       | 44.3/50       | 2            | 4.10             | 3               | 1             | 17.9                     | 20                                    |
| GEVK090   | 575/60/3 | 12.9           | 4.5/5.1       | 27.1/41       | 2            | 3.30             | 3               | 1             | 14.2                     | 15                                    |
| GEVK090   | 208/60/3 | 35.1           | 12.2/13.5     | 97.5/120.4    | 2            | 9.40             | 3               | 1             | 38.5                     | 50                                    |
| GEVK090   | 230/60/3 | 33.9           | 12.2/13.5     | 97.5/120.4    | 2            | 8.20             | 3               | 1             | 37.3                     | 50                                    |
| GEVK090   | 460/60/3 | 16.3           | 5.8/6.4       | 44.3/50       | 2            | 4.10             | 3               | 1             | 17.9                     | 20                                    |
| GEVK090   | 575/60/3 | 12.9           | 4.5/5.1       | 27.1/41       | 2            | 3.30             | 3               | 1             | 14.2                     | 15                                    |
| GEVK120   | 208/60/3 | 37.6           | 16            | 156.4         | 2            | 5.60             | 1.5             | 1             | 41.6                     | 50                                    |
| GEVK120   | 230/60/3 | 36.8           | 16            | 156.4         | 2            | 4.80             | 1.5             | 1             | 40.8                     | 50                                    |
| GEVK120   | 460/60/3 | 16.6           | 7.1           | 69            | 2            | 2.40             | 1.5             | 1             | 18.4                     | 25                                    |
| GEVK120   | 208/60/3 | 39.1           | 16            | 156.4         | 2            | 7.10             | 2               | 1             | 43.1                     | 50                                    |
| GEVK120   | 230/60/3 | 38.2           | 16            | 156.4         | 2            | 6.20             | 2               | 1             | 42.2                     | 50                                    |
| GEVK120   | 460/60/3 | 17.3           | 7.1           | 69            | 2            | 3.11             | 2               | 1             | 19.1                     | 25                                    |
| GEVK120   | 575/60/3 | 15.1           | 6.4           | 47.8          | 2            | 2.30             | 2               | 1             | 16.7                     | 20                                    |
| GEVK120   | 208/60/3 | 41.4           | 16            | 156.4         | 2            | 9.40             | 3               | 1             | 45.4                     | 60                                    |
| GEVK120   | 230/60/3 | 40.2           | 16            | 156.4         | 2            | 8.20             | 3               | 1             | 44.2                     | 60                                    |
| GEVK120   | 460/60/3 | 18.3           | 7.1           | 69            | 2            | 4.10             | 3               | 1             | 20.1                     | 25                                    |
| GEVK120   | 575/60/3 | 16.1           | 6.4           | 47.8          | 2            | 3.30             | 3               | 1             | 17.7                     | 20                                    |
| GEVK120   | 208/60/3 | 46.0           | 16            | 156.4         | 2            | 14.00            | 5               | 1             | 50.0                     | 60                                    |
| GEVK120   | 230/60/3 | 45.0           | 16            | 156.4         | 2            | 13.00            | 5               | 1             | 49.0                     | 60                                    |
| GEVK120   | 460/60/3 | 20.7           | 7.1           | 69            | 2            | 6.50             | 5               | 1             | 22.5                     | 25                                    |
| GEVK120   | 575/60/3 | 18.1           | 6.4           | 47.8          | 2            | 5.30             | 5               | 1             | 19.7                     | 25                                    |
| GEVK150   | 208/60/3 | 51.9           | 22.4          | 166.2         | 2            | 7.10             | 2               | 1             | 57.5                     | 70                                    |
| GEVK150   | 230/60/3 | 51.0           | 22.4          | 166.2         | 2            | 6.20             | 2               | 1             | 56.6                     | 70                                    |
| GEVK150   | 460/60/3 | 21.5           | 9.2           | 74.6          | 2            | 3.11             | 2               | 1             | 23.8                     | 30                                    |
| GEVK150   | 575/60/3 | 16.7           | 7.2           | 54            | 2            | 2.30             | 2               | 1             | 18.5                     | 25                                    |
| GEVK150   | 208/60/3 | 54.2           | 22.4          | 166.2         | 2            | 9.40             | 3               | 1             | 59.8                     | 80                                    |
| GEVK150   | 230/60/3 | 53.0           | 22.4          | 166.2         | 2            | 8.20             | 3               | 1             | 58.6                     | 80                                    |
| GEVK150   | 460/60/3 | 22.5           | 9.2           | 74.6          | 2            | 4.10             | 3               | 1             | 24.8                     | 30                                    |
| GEVK150   | 575/60/3 | 17.7           | 7.2           | 54            | 2            | 3.30             | 3               | 1             | 19.5                     | 25                                    |
| GEVK150   | 208/60/3 | 58.8           | 22.4          | 166.2         | 2            | 14.00            | 5               | 1             | 64.4                     | 80                                    |
| GEVK150   | 230/60/3 | 57.8           | 22.4          | 166.2         | 2            | 13               | 5               | 1             | 63.4                     | 80                                    |
| GEVK150   | 460/60/3 | 24.9           | 9.2           | 74.6          | 2            | 6.5              | 5               | 1             | 27.2                     | 35                                    |
| GEVK150   | 575/60/3 | 19.7           | 7.2           | 54            | 2            | 5.3              | 5               | 1             | 21.5                     | 25                                    |
| GEVK180   | 208/60/3 | 64.8           | 27.7          | 191           | 2            | 9.4              | 3               | 1             | 71.7                     | 90                                    |
| GEVK180   | 230/60/3 | 63.6           | 27.7          | 191           | 2            | 8.2              | 3               | 1             | 70.5                     | 90                                    |
| GEVK180   | 460/60/3 | 27.1           | 11.5          | 103           | 2            | 4.1              | 3               | 1             | 30.0                     | 40                                    |
| GEVK180   | 575/60/3 | 21.3           | 9             | 78            | 2            | 3.3              | 3               | 1             | 23.6                     | 30                                    |
| GEVK180   | 208/60/3 | 69.4           | 27.7          | 191           | 2            | 14               | 5               | 1             | 76.3                     | 100                                   |



**Table 151. Electrical data single speed blower motor (6 to 25 tons) (continued)**

| Model No. | Volts    | Total Unit FLA | Comp RLA (ea) | Comp LRA (ea) | No. of Comp. | Blower Motor FLA | Blower Motor hp | Fan Motor Num | Minimum Circuit Ampacity | Maximum Overcurrent Protective Device |
|-----------|----------|----------------|---------------|---------------|--------------|------------------|-----------------|---------------|--------------------------|---------------------------------------|
| GEVK180   | 230/60/3 | 68.4           | 27.7          | 191           | 2            | 13               | 5               | 1             | 75.3                     | 100                                   |
| GEVK180   | 460/60/3 | 29.5           | 11.5          | 103           | 2            | 6.5              | 5               | 1             | 32.4                     | 40                                    |
| GEVK180   | 575/60/3 | 23.3           | 9             | 78            | 2            | 5.3              | 5               | 1             | 25.6                     | 30                                    |
| GEVK180   | 208/60/3 | 75.4           | 27.7          | 191           | 2            | 20               | 7.5             | 1             | 82.3                     | 110                                   |
| GEVK180   | 230/60/3 | 74.8           | 27.7          | 191           | 2            | 19.4             | 7.5             | 1             | 81.7                     | 100                                   |
| GEVK180   | 460/60/3 | 32.7           | 11.5          | 103           | 2            | 9.7              | 7.5             | 1             | 35.6                     | 45                                    |
| GEVK180   | 575/60/3 | 26             | 9             | 78            | 2            | 8                | 7.5             | 1             | 28.3                     | 35                                    |
| GEVK240   | 208/60/3 | 71             | 28.5          | 255           | 2            | 14               | 5               | 1             | 78.1                     | 100                                   |
| GEVK240   | 230/60/3 | 70             | 28.5          | 255           | 2            | 13               | 5               | 1             | 77.1                     | 100                                   |
| GEVK240   | 460/60/3 | 33.5           | 13.5          | 123           | 2            | 6.5              | 5               | 1             | 36.9                     | 50                                    |
| GEVK240   | 575/60/3 | 26.7           | 10.7          | 93.7          | 2            | 5.3              | 5               | 1             | 29.4                     | 40                                    |
| GEVK240   | 208/60/3 | 77             | 28.5          | 255           | 2            | 20               | 7.5             | 1             | 84.1                     | 110                                   |
| GEVK240   | 230/60/3 | 76.4           | 28.5          | 255           | 2            | 19.4             | 7.5             | 1             | 83.5                     | 110                                   |
| GEVK240   | 460/60/3 | 36.7           | 13.5          | 123           | 2            | 9.7              | 7.5             | 1             | 40.1                     | 50                                    |
| GEVK240   | 575/60/3 | 29.4           | 10.7          | 93.7          | 2            | 8                | 7.5             | 1             | 32.1                     | 40                                    |
| GEVK240   | 208/60/3 | 77             | 28.5          | 255           | 2            | 20               | 7.5             | 1             | 84.1                     | 110                                   |
| GEVK240   | 230/60/3 | 76.4           | 28.5          | 255           | 2            | 19.4             | 7.5             | 1             | 83.5                     | 110                                   |
| GEVK240   | 460/60/3 | 36.7           | 13.5          | 123           | 2            | 9.7              | 7.5             | 1             | 40.1                     | 50                                    |
| GEVK240   | 575/60/3 | 29.4           | 10.7          | 93.7          | 2            | 8                | 7.5             | 1             | 32.1                     | 40                                    |
| GEVK240   | 208/60/3 | 83             | 28.5          | 255           | 2            | 26               | 10              | 1             | 90.1                     | 110                                   |
| GEVK240   | 230/60/3 | 82             | 28.5          | 255           | 2            | 25               | 10              | 1             | 89.1                     | 110                                   |
| GEVK240   | 460/60/3 | 39.5           | 13.5          | 123           | 2            | 12.5             | 10              | 1             | 42.9                     | 50                                    |
| GEVK240   | 575/60/3 | 31.4           | 10.7          | 93.7          | 2            | 10               | 10              | 1             | 34.1                     | 40                                    |
| GEVK240   | 208/60/3 | 83             | 28.5          | 255           | 2            | 26               | 10              | 1             | 90.1                     | 110                                   |
| GEVK240   | 230/60/3 | 82             | 28.5          | 255           | 2            | 25               | 10              | 1             | 89.1                     | 110                                   |
| GEVK240   | 460/60/3 | 39.5           | 13.5          | 123           | 2            | 12.5             | 10              | 1             | 42.9                     | 50                                    |
| GEVK240   | 575/60/3 | 31.4           | 10.7          | 93.7          | 2            | 10               | 10              | 1             | 34.1                     | 40                                    |
| GEVK240   | 208/60/3 | 94             | 28.5          | 255           | 2            | 37               | 15              | 1             | 101.1                    | 125                                   |
| GEVK240   | 230/60/3 | 93             | 28.5          | 255           | 2            | 36               | 15              | 1             | 100.1                    | 125                                   |
| GEVK240   | 460/60/3 | 45             | 13.5          | 123           | 2            | 18               | 15              | 1             | 48.4                     | 60                                    |
| GEVK240   | 575/60/3 | 35.5           | 10.7          | 93.7          | 2            | 14.1             | 15              | 1             | 38.2                     | 45                                    |
| GEVK240   | 208/60/3 | 94             | 28.5          | 255           | 2            | 37               | 15              | 1             | 101.1                    | 125                                   |
| GEVK240   | 230/60/3 | 93             | 28.5          | 255           | 2            | 36               | 15              | 1             | 100.1                    | 125                                   |
| GEVK240   | 460/60/3 | 45             | 13.5          | 123           | 2            | 18               | 15              | 1             | 48.4                     | 60                                    |
| GEVK240   | 575/60/3 | 35.5           | 10.7          | 93.7          | 2            | 14.1             | 15              | 1             | 38.2                     | 45                                    |
| GEVK300   | 208/60/3 | 95.6           | 40.8          | 270           | 2            | 14               | 5               | 1             | 105.8                    | 125                                   |
| GEVK300   | 230/60/3 | 94.6           | 40.8          | 270           | 2            | 13               | 5               | 1             | 104.8                    | 125                                   |
| GEVK300   | 460/60/3 | 45.3           | 19.4          | 147           | 2            | 6.5              | 5               | 1             | 50.2                     | 60                                    |
| GEVK300   | 575/60/3 | 32.7           | 13.7          | 109           | 2            | 5.3              | 5               | 1             | 36.1                     | 45                                    |



## Electrical Data

**Table 151. Electrical data single speed blower motor (6 to 25 tons) (continued)**

| Model No. | Volts    | Total Unit FLA | Comp RLA (ea) | Comp LRA (ea) | No. of Comp. | Blower Motor FLA | Blower Motor hp | Fan Motor Num | Minimum Circuit Ampacity | Maximum Overcurrent Protective Device |
|-----------|----------|----------------|---------------|---------------|--------------|------------------|-----------------|---------------|--------------------------|---------------------------------------|
| GEVK300   | 208/60/3 | 101.6          | 40.8          | 270           | 2            | 20               | 7.5             | 1             | 111.8                    | 150                                   |
| GEVK300   | 230/60/3 | 101            | 40.8          | 270           | 2            | 19.4             | 7.5             | 1             | 111.2                    | 150                                   |
| GEVK300   | 460/60/3 | 48.5           | 19.4          | 147           | 2            | 9.7              | 7.5             | 1             | 53.4                     | 70                                    |
| GEVK300   | 575/60/3 | 35.4           | 13.7          | 109           | 2            | 8                | 7.5             | 1             | 38.8                     | 50                                    |
| GEVK300   | 208/60/3 | 107.6          | 40.8          | 270           | 2            | 26               | 10              | 1             | 117.8                    | 150                                   |
| GEVK300   | 230/60/3 | 106.6          | 40.8          | 270           | 2            | 25               | 10              | 1             | 116.8                    | 150                                   |
| GEVK300   | 460/60/3 | 51.3           | 19.4          | 147           | 2            | 12.5             | 10              | 1             | 56.2                     | 70                                    |
| GEVK300   | 575/60/3 | 37.4           | 13.7          | 109           | 2            | 10               | 10              | 1             | 40.8                     | 50                                    |
| GEVK300   | 208/60/3 | 118.6          | 40.8          | 270           | 2            | 37               | 15              | 1             | 128.8                    | 150                                   |
| GEVK300   | 230/60/3 | 117.6          | 40.8          | 270           | 2            | 36               | 15              | 1             | 127.8                    | 150                                   |
| GEVK300   | 460/60/3 | 56.8           | 19.4          | 147           | 2            | 18               | 15              | 1             | 61.7                     | 80                                    |
| GEVK300   | 575/60/3 | 41.5           | 13.7          | 109           | 2            | 14.1             | 15              | 1             | 44.9                     | 50                                    |

**Table 152. Electrical data - ECM motors - (0.5 to 5 tons) GEV/H**

| Model No. | Unit Volts   | Total Unit FLA | Comp RLA (ea) | Comp LRA (ea) | Blower Motor FLA | Blower Motor HP | Minimum Circuit Ampacity | Maximum Overcurrent Protective Device |
|-----------|--------------|----------------|---------------|---------------|------------------|-----------------|--------------------------|---------------------------------------|
| GEV/H006  | 208-230/60/1 | 4.7            | 4.3           | 27.0          | 0.4              | 1/3             | 6/6                      | 15/15                                 |
| GEV/H006  | 265/60/1     | 4.0            | 3.6           | 22.0          | 0.4              | 1/3             | 5                        | 15                                    |
| GEV/H009  | 208-230/60/1 | 5.2            | 4.3           | 27.0          | 0.9              | 1/3             | 7/7                      | 15/15                                 |
| GEV/H009  | 265/60/1     | 4.4            | 3.6           | 22.0          | 0.8              | 1/3             | 6                        | 15                                    |
| GEV/H012  | 208-230/60/1 | 7.4            | 6.0           | 27.0          | 1.4              | 1/3             | 9/9                      | 15/15                                 |
| GEV/H012  | 265/60/1     | 7.2            | 6.0           | 32.0          | 1.2              | 1/3             | 9                        | 15                                    |
| GEV/H015  | 208-230/60/1 | 8.7            | 7.7           | 33.0          | 1.0              | 1/3             | 11/11                    | 15/15                                 |
| GEV/H015  | 265/60/1     | 7.5            | 6.7           | 37.0          | 0.8              | 1/3             | 10                       | 15                                    |
| GEV/H018  | 208-230/60/1 | 11.6           | 10.2          | 35.0          | 1.4              | 1/3             | 15/15                    | 20/20                                 |
| GEV/H018  | 265/60/1     | 9.6            | 8.4           | 40.0          | 1.2              | 1/3             | 12                       | 20                                    |
| GEV/H024  | 208-230/60/1 | 13.4           | 11.4          | 64.4          | 2.0              | 1/2             | 17/17                    | 25/25                                 |
| GEV/H024  | 265/60/1     | 12.0           | 10.3          | 60.5          | 1.7              | 1/2             | 15                       | 20                                    |
| GEV/H024  | 208-230/60/3 | 9.7            | 7.7           | 59.9          | 2.0              | 1/2             | 12/12                    | 15/15                                 |
| GEV/H024  | 460/60/3     | 4.8            | 3.8           | 32.4          | 1.0              | 1/2             | 6                        | 15                                    |
| GEV/H030  | 208-230/60/1 | 15.0           | 12.7          | 75.6          | 2.3              | 3/4             | 19/19                    | 30/30                                 |
| GEV/H030  | 208-230/60/3 | 11.9           | 9.6           | 67.7          | 2.3              | 3/4             | 15/15                    | 20/20                                 |
| GEV/H030  | 265/60/1     | 13.5           | 11.5          | 84.0          | 2.0              | 3/4             | 17                       | 25                                    |
| GEV/H030  | 460/60/3     | 5.6            | 4.5           | 38.1          | 1.1              | 3/4             | 7                        | 15                                    |
| GEV/H036  | 208-230/60/1 | 19.3           | 16.2          | 109.0         | 3.1              | 3/4             | 24/24                    | 35/35                                 |
| GEV/H036  | 265/60/1     | 18.9           | 16.2          | 107.4         | 2.7              | 3/4             | 23                       | 35                                    |
| GEV/H036  | 208-230/60/3 | 16.5           | 13.4          | 102.8         | 3.1              | 3/4             | 20/20                    | 30/30                                 |
| GEV/H036  | 460/60/3     | 7.9            | 6.4           | 50.0          | 1.5              | 3/4             | 10                       | 15                                    |
| GEV/H042  | 208-230/60/1 | 23.4           | 19.5          | 123.0         | 3.9              | 3/4             | 29/29                    | 45/45                                 |
| GEV/H042  | 208-230/60/3 | 17.4           | 13.4          | 102.8         | 3.9              | 3/4             | 21/21                    | 30/30                                 |
| GEV/H042  | 460/60/3     | 8.1            | 6.1           | 50.0          | 2.0              | 1               | 10                       | 15                                    |

**Table 152. Electrical data - ECM motors - (0.5 to 5 tons) GEV/H (continued)**

| Model No. | Unit Volts   | Total Unit FLA | Comp RLA (ea) | Comp LRA (ea) | Blower Motor FLA | Blower Motor HP | Minimum Circuit Ampacity | Maximum Overcurrent Protective Device |
|-----------|--------------|----------------|---------------|---------------|------------------|-----------------|--------------------------|---------------------------------------|
| GEV/H048  | 208-230/60/1 | 27.0           | 22.2          | 127.0         | 4.8              | 1               | 33/33                    | 50/50                                 |
| GEV/H048  | 208-230/60/3 | 19.9           | 15.1          | 120.4         | 4.8              | 1               | 24/24                    | 35/35                                 |
| GEV/H048  | 460/60/3     | 9.6            | 7.2           | 50.0          | 2.4              | 1               | 12                       | 15                                    |
| GEV/H060  | 208-230/60/1 | 32.5           | 27.1          | 157.0         | 5.4              | 1               | 40/40                    | 60/60                                 |
| GEV/H060  | 208-230/60/3 | 23.8           | 18.4          | 156.4         | 5.4              | 1               | 29/29                    | 45/45                                 |
| GEV/H060  | 460/60/3     | 10.9           | 8.2           | 69.0          | 2.7              | 1               | 13                       | 20                                    |

**Table 153. Electrical data two speed blower motor (6 to 25 tons)**

| Model   | Volts    | Total Unit FLA | Comp RLA (ea) | Comp LRA (ea) | No. of Comp | Blower Motor FLA | Blower Motor HP | Fan Motors No. | Minimum Circuit Ampacity | Maximum Overcurrent Protection |
|---------|----------|----------------|---------------|---------------|-------------|------------------|-----------------|----------------|--------------------------|--------------------------------|
| GEHK072 | 208/60/3 | 27.7           | 12.2          | 97.5          | 2           | 3.3              | 1               | 1              | 30.75                    | 40                             |
| GEHK072 | 230/60/3 | 27.4           | 12.2          | 97.5          | 2           | 3.0              | 1               | 1              | 30.45                    | 40                             |
| GEHK072 | 460/60/3 | 13.1           | 5.8           | 44.3          | 2           | 1.5              | 1               | 1              | 14.55                    | 20                             |
| GEHK072 | 208/60/3 | 29.3           | 12.2          | 97.5          | 2           | 4.9              | 1.5             | 1              | 32.35                    | 40                             |
| GEHK072 | 230/60/3 | 28.8           | 12.2          | 97.5          | 2           | 4.4              | 1.5             | 1              | 31.85                    | 40                             |
| GEHK072 | 460/60/3 | 13.8           | 5.8           | 44.3          | 2           | 2.2              | 1.5             | 1              | 15.25                    | 20                             |
| GEHK072 | 208/60/3 | 31.1           | 12.2          | 97.5          | 2           | 6.7              | 2               | 1              | 34.15                    | 45                             |
| GEHK072 | 230/60/3 | 30.5           | 12.2          | 97.5          | 2           | 6.1              | 2               | 1              | 33.55                    | 45                             |
| GEHK072 | 460/60/3 | 14.7           | 5.8           | 44.3          | 2           | 3.1              | 2               | 1              | 16.15                    | 20                             |
| GEHK090 | 208/60/3 | 29.0           | 12.2/13.5     | 97.5/120.4    | 2           | 3.3              | 1               | 1              | 32.38                    | 45                             |
| GEHK090 | 230/60/3 | 28.7           | 12.2/13.5     | 97.5/120.4    | 2           | 3.0              | 1               | 1              | 32.08                    | 45                             |
| GEHK090 | 460/60/3 | 13.7           | 5.8/6.4       | 44.3/50       | 2           | 1.5              | 1               | 1              | 15.30                    | 20                             |
| GEHK090 | 208/60/3 | 30.6           | 12.2/13.5     | 97.5/120.4    | 2           | 4.9              | 1.5             | 1              | 33.98                    | 45                             |
| GEHK090 | 230/60/3 | 30.1           | 12.2/13.5     | 97.5/120.4    | 2           | 4.4              | 1.5             | 1              | 33.48                    | 45                             |
| GEHK090 | 460/60/3 | 14.4           | 5.8/6.4       | 44.3/50       | 2           | 2.2              | 1.5             | 1              | 16.00                    | 20                             |
| GEHK090 | 208/60/3 | 32.4           | 12.2/13.5     | 97.5/120.4    | 2           | 6.7              | 2               | 1              | 35.78                    | 45                             |
| GEHK090 | 230/60/3 | 31.8           | 12.2/13.5     | 97.5/120.4    | 2           | 6.1              | 2               | 1              | 35.17                    | 45                             |
| GEHK090 | 460/60/3 | 15.3           | 5.8/6.4       | 44.3/50       | 2           | 3.1              | 2               | 1              | 16.90                    | 20                             |
| GEHK090 | 208/60/3 | 34.5           | 12.2/13.5     | 97.5/120.4    | 2           | 8.8              | 3               | 1              | 37.88                    | 50                             |
| GEHK090 | 230/60/3 | 33.7           | 12.2/13.5     | 97.5/120.4    | 2           | 8.0              | 3               | 1              | 37.08                    | 50                             |
| GEHK090 | 460/60/3 | 16.2           | 5.8/6.4       | 44.3/50       | 2           | 4.0              | 3               | 1              | 17.80                    | 20                             |
| GEHK120 | 208/60/3 | 36.9           | 16.0          | 156.4         | 2           | 4.9              | 1.5             | 1              | 40.90                    | 50                             |
| GEHK120 | 230/60/3 | 36.4           | 16.0          | 156.4         | 2           | 4.4              | 1.5             | 1              | 40.40                    | 50                             |
| GEHK120 | 460/60/3 | 16.4           | 7.1           | 69            | 2           | 2.2              | 1.5             | 1              | 18.18                    | 25                             |
| GEHK120 | 208/60/3 | 38.7           | 16.0          | 156.4         | 2           | 6.7              | 2               | 1              | 42.70                    | 50                             |
| GEHK120 | 230/60/3 | 38.1           | 16.0          | 156.4         | 2           | 6.1              | 2               | 1              | 42.10                    | 50                             |
| GEHK120 | 460/60/3 | 17.3           | 7.1           | 69            | 2           | 3.1              | 2               | 1              | 19.08                    | 25                             |
| GEHK120 | 208/60/3 | 40.8           | 16.0          | 156.4         | 2           | 8.8              | 3               | 1              | 44.80                    | 60                             |
| GEHK120 | 230/60/3 | 40.0           | 16.0          | 156.4         | 2           | 8.0              | 3               | 1              | 44.00                    | 60                             |
| GEHK120 | 460/60/3 | 18.2           | 7.1           | 69            | 2           | 4.0              | 3               | 1              | 19.98                    | 25                             |
| GEHK120 | 208/60/3 | 46.6           | 16.0          | 156.4         | 2           | 14.6             | 5               | 1              | 50.60                    | 60                             |
| GEHK120 | 230/60/3 | 45.2           | 16.0          | 156.4         | 2           | 13.2             | 5               | 1              | 49.20                    | 60                             |



## Electrical Data

**Table 153. Electrical data two speed blower motor (6 to 25 tons) (continued)**

| Model   | Volts    | Total Unit FLA | Comp RLA (ea) | Comp LRA (ea) | No. of Comp | Blower Motor FLA | Blower Motor HP | Fan Motors No. | Minimum Circuit Ampacity | Maximum Overcurrent Protection |
|---------|----------|----------------|---------------|---------------|-------------|------------------|-----------------|----------------|--------------------------|--------------------------------|
| GEHK120 | 460/60/3 | 20.8           | 7.1           | 69            | 2           | 6.6              | 5               | 1              | 22.58                    | 25                             |
| GEHK150 | 208/60/3 | 49.7           | 22.4          | 166.2         | 2           | 4.9              | 1.5             | 1              | 55.30                    | 70                             |
| GEHK150 | 230/60/3 | 49.2           | 22.4          | 166.2         | 2           | 4.4              | 1.5             | 1              | 54.80                    | 70                             |
| GEHK150 | 460/60/3 | 20.6           | 9.2           | 74.6          | 2           | 2.2              | 1.5             | 1              | 22.90                    | 30                             |
| GEHK150 | 208/60/3 | 51.5           | 22.4          | 166.2         | 2           | 6.7              | 2               | 1              | 57.10                    | 70                             |
| GEHK150 | 230/60/3 | 50.9           | 22.4          | 166.2         | 2           | 6.1              | 2               | 1              | 56.50                    | 70                             |
| GEHK150 | 460/60/3 | 21.5           | 9.2           | 74.6          | 2           | 3.1              | 2               | 1              | 23.80                    | 30                             |
| GEHK150 | 208/60/3 | 53.6           | 22.4          | 166.2         | 2           | 8.8              | 3               | 1              | 59.20                    | 80                             |
| GEHK150 | 230/60/3 | 52.8           | 22.4          | 166.2         | 2           | 8.0              | 3               | 1              | 58.40                    | 80                             |
| GEHK150 | 460/60/3 | 22.4           | 9.2           | 74.6          | 2           | 4.0              | 3               | 1              | 24.70                    | 30                             |
| GEHK150 | 208/60/3 | 59.4           | 22.4          | 166.2         | 2           | 14.6             | 5               | 1              | 65.00                    | 80                             |
| GEHK150 | 230/60/3 | 58.0           | 22.4          | 166.2         | 2           | 13.2             | 5               | 1              | 63.60                    | 80                             |
| GEHK150 | 460/60/3 | 25.0           | 9.2           | 74.6          | 2           | 6.6              | 5               | 1              | 27.30                    | 35                             |
| GEHK180 | 208/60/3 | 62.1           | 27.7          | 191           | 2           | 6.7              | 2               | 1              | 69.03                    | 90                             |
| GEHK180 | 230/60/3 | 61.5           | 27.7          | 191           | 2           | 6.1              | 2               | 1              | 68.43                    | 90                             |
| GEHK180 | 460/60/3 | 26.1           | 11.5          | 103           | 2           | 3.1              | 2               | 1              | 28.98                    | 40                             |
| GEHK180 | 208/60/3 | 64.2           | 27.7          | 191           | 2           | 8.8              | 3               | 1              | 71.13                    | 90                             |
| GEHK180 | 230/60/3 | 63.4           | 27.7          | 191           | 2           | 8.0              | 3               | 1              | 70.33                    | 90                             |
| GEHK180 | 460/60/3 | 27.0           | 11.5          | 103           | 2           | 4.0              | 3               | 1              | 29.88                    | 40                             |
| GEHK180 | 208/60/3 | 70.0           | 27.7          | 191           | 2           | 14.6             | 5               | 1              | 76.93                    | 100                            |
| GEHK180 | 230/60/3 | 68.6           | 27.7          | 191           | 2           | 13.2             | 5               | 1              | 75.53                    | 100                            |
| GEHK180 | 460/60/3 | 29.6           | 11.5          | 103           | 2           | 6.6              | 5               | 1              | 32.48                    | 40                             |
| GEHK180 | 208/60/3 | 77.5           | 27.7          | 191           | 2           | 22.1             | 7.5             | 1              | 84.43                    | 110                            |
| GEHK180 | 230/60/3 | 75.4           | 27.7          | 191           | 2           | 20.0             | 7.5             | 1              | 82.33                    | 110                            |
| GEHK180 | 460/60/3 | 33.0           | 11.5          | 103           | 2           | 10.0             | 7.5             | 1              | 35.88                    | 45                             |
| GEVK072 | 208/60/3 | 27.7           | 12.2          | 97.5          | 2           | 3.3              | 1               | 1              | 30.75                    | 40                             |
| GEVK072 | 230/60/3 | 27.4           | 12.2          | 97.5          | 2           | 3.0              | 1               | 1              | 30.45                    | 40                             |
| GEVK072 | 460/60/3 | 13.1           | 5.8           | 44.3          | 2           | 1.5              | 1               | 1              | 14.55                    | 20                             |
| GEVK072 | 208/60/3 | 29.3           | 12.2          | 97.5          | 2           | 4.9              | 1.5             | 1              | 32.35                    | 40                             |
| GEVK072 | 230/60/3 | 28.8           | 12.2          | 97.5          | 2           | 4.4              | 1.5             | 1              | 31.85                    | 40                             |
| GEVK072 | 460/60/3 | 13.8           | 5.8           | 44.3          | 2           | 2.2              | 1.5             | 1              | 15.25                    | 20                             |
| GEVK072 | 208/60/3 | 31.1           | 12.2          | 97.5          | 2           | 6.7              | 2               | 1              | 34.15                    | 45                             |
| GEVK072 | 230/60/3 | 30.5           | 12.2          | 97.5          | 2           | 6.1              | 2               | 1              | 33.55                    | 45                             |
| GEVK072 | 460/60/3 | 14.7           | 5.8           | 44.3          | 2           | 3.1              | 2               | 1              | 16.15                    | 20                             |
| GEVK090 | 208/60/3 | 29.0           | 12.2/13.5     | 97.5/120.4    | 2           | 3.3              | 1               | 1              | 32.38                    | 45                             |
| GEVK090 | 230/60/3 | 28.7           | 12.2/13.5     | 97.5/120.4    | 2           | 3.0              | 1               | 1              | 32.08                    | 45                             |
| GEVK090 | 460/60/3 | 13.7           | 5.8/6.4       | 44.3/50       | 2           | 1.5              | 1               | 1              | 15.30                    | 20                             |
| GEVK090 | 208/60/3 | 29.0           | 12.2/13.5     | 97.5/120.4    | 2           | 3.3              | 1               | 1              | 32.38                    | 45                             |
| GEVK090 | 230/60/3 | 27.2           | 12.2/13.5     | 97.5/120.4    | 2           | 1.5              | 1               | 1              | 30.58                    | 40                             |
| GEVK090 | 460/60/3 | 15.5           | 5.8/6.4       | 44.3/50       | 2           | 3.3              | 1               | 1              | 17.10                    | 20                             |
| GEVK090 | 208/60/3 | 30.6           | 12.2/13.5     | 97.5/120.4    | 2           | 4.9              | 1.5             | 1              | 33.98                    | 45                             |
| GEVK090 | 230/60/3 | 30.1           | 12.2/13.5     | 97.5/120.4    | 2           | 4.4              | 1.5             | 1              | 33.48                    | 45                             |
| GEVK090 | 460/60/3 | 14.4           | 5.8/6.4       | 44.3/50       | 2           | 2.2              | 1.5             | 1              | 16.00                    | 20                             |

**Table 153. Electrical data two speed blower motor (6 to 25 tons) (continued)**

| Model   | Volts    | Total Unit FLA | Comp RLA (ea) | Comp LRA (ea) | No. of Comp | Blower Motor FLA | Blower Motor HP | Fan Motors No. | Minimum Circuit Ampacity | Maximum Overcurrent Protection |
|---------|----------|----------------|---------------|---------------|-------------|------------------|-----------------|----------------|--------------------------|--------------------------------|
| GEVK090 | 208/60/3 | 30.6           | 12.2/13.5     | 97.5/120.4    | 2           | 4.9              | 1.5             | 1              | 33.98                    | 45                             |
| GEVK090 | 230/60/3 | 30.1           | 12.2/13.5     | 97.5/120.4    | 2           | 4.4              | 1.5             | 1              | 33.48                    | 45                             |
| GEVK090 | 460/60/3 | 14.4           | 5.8/6.4       | 44.3/50       | 2           | 2.2              | 1.5             | 1              | 16.00                    | 20                             |
| GEVK090 | 208/60/3 | 30.6           | 12.2/13.5     | 97.5/120.4    | 2           | 4.9              | 1.5             | 1              | 33.98                    | 45                             |
| GEVK090 | 230/60/3 | 30.1           | 12.2/13.5     | 97.5/120.4    | 2           | 4.4              | 1.5             | 1              | 33.48                    | 45                             |
| GEVK090 | 460/60/3 | 14.4           | 5.8/6.4       | 44.3/50       | 2           | 2.2              | 1.5             | 1              | 16.00                    | 20                             |
| GEVK090 | 208/60/3 | 32.4           | 12.2/13.5     | 97.5/120.4    | 2           | 6.7              | 2               | 1              | 35.78                    | 45                             |
| GEVK090 | 230/60/3 | 31.8           | 12.2/13.5     | 97.5/120.4    | 2           | 6.1              | 2               | 1              | 35.17                    | 45                             |
| GEVK090 | 460/60/3 | 15.3           | 5.8/6.4       | 44.3/50       | 2           | 3.1              | 2               | 1              | 16.90                    | 20                             |
| GEVK090 | 208/60/3 | 32.4           | 12.2/13.5     | 97.5/120.4    | 2           | 6.7              | 2               | 1              | 35.78                    | 45                             |
| GEVK090 | 230/60/3 | 31.8           | 12.2/13.5     | 97.5/120.4    | 2           | 6.1              | 2               | 1              | 35.17                    | 45                             |
| GEVK090 | 460/60/3 | 15.3           | 5.8/6.4       | 44.3/50       | 2           | 3.1              | 2               | 1              | 16.90                    | 20                             |
| GEVK090 | 208/60/3 | 34.5           | 12.2/13.5     | 97.5/120.4    | 2           | 8.8              | 3               | 1              | 37.88                    | 50                             |
| GEVK090 | 230/60/3 | 33.7           | 12.2/13.5     | 97.5/120.4    | 2           | 8.0              | 3               | 1              | 37.08                    | 50                             |
| GEVK090 | 460/60/3 | 16.2           | 5.8/6.4       | 44.3/50       | 2           | 4.0              | 3               | 1              | 17.80                    | 20                             |
| GEVK090 | 208/60/3 | 34.5           | 12.2/13.5     | 97.5/120.4    | 2           | 8.8              | 3               | 1              | 37.88                    | 50                             |
| GEVK090 | 230/60/3 | 33.7           | 12.2/13.5     | 97.5/120.4    | 2           | 8.0              | 3               | 1              | 37.08                    | 50                             |
| GEVK090 | 460/60/3 | 16.2           | 5.8/6.4       | 44.3/50       | 2           | 4.0              | 3               | 1              | 17.80                    | 20                             |
| GEVK120 | 208/60/3 | 36.9           | 16.0          | 156.4         | 2           | 4.9              | 1.5             | 1              | 40.90                    | 50                             |
| GEVK120 | 230/60/3 | 36.4           | 16.0          | 156.4         | 2           | 4.4              | 1.5             | 1              | 40.40                    | 50                             |
| GEVK120 | 460/60/3 | 16.4           | 7.1           | 69            | 2           | 2.2              | 1.5             | 1              | 18.18                    | 25                             |
| GEVK120 | 208/60/3 | 38.7           | 16.0          | 156.4         | 2           | 6.7              | 2               | 1              | 42.70                    | 50                             |
| GEVK120 | 230/60/3 | 38.1           | 16.0          | 156.4         | 2           | 6.1              | 2               | 1              | 42.10                    | 50                             |
| GEVK120 | 460/60/3 | 17.3           | 7.1           | 69            | 2           | 3.1              | 2               | 1              | 19.08                    | 25                             |
| GEVK120 | 208/60/3 | 40.8           | 16.0          | 156.4         | 2           | 8.8              | 3               | 1              | 44.80                    | 60                             |
| GEVK120 | 230/60/3 | 40.0           | 16.0          | 156.4         | 2           | 8.0              | 3               | 1              | 44.00                    | 60                             |
| GEVK120 | 460/60/3 | 18.2           | 7.1           | 69            | 2           | 4.0              | 3               | 1              | 19.98                    | 25                             |
| GEVK120 | 208/60/3 | 46.6           | 16.0          | 156.4         | 2           | 14.6             | 5               | 1              | 50.60                    | 60                             |
| GEVK120 | 230/60/3 | 45.2           | 16.0          | 156.4         | 2           | 13.2             | 5               | 1              | 49.20                    | 60                             |
| GEVK120 | 460/60/3 | 20.8           | 7.1           | 69            | 2           | 6.6              | 5               | 1              | 22.58                    | 25                             |
| GEVK150 | 208/60/3 | 51.5           | 22.4          | 166.2         | 2           | 6.7              | 2               | 1              | 57.10                    | 70                             |
| GEVK150 | 230/60/3 | 50.9           | 22.4          | 166.2         | 2           | 6.1              | 2               | 1              | 56.50                    | 70                             |
| GEVK150 | 460/60/3 | 21.5           | 9.2           | 74.6          | 2           | 3.1              | 2               | 1              | 23.80                    | 30                             |
| GEVK150 | 208/60/3 | 53.6           | 22.4          | 166.2         | 2           | 8.8              | 3               | 1              | 59.20                    | 80                             |
| GEVK150 | 230/60/3 | 52.8           | 22.4          | 166.2         | 2           | 8.0              | 3               | 1              | 58.40                    | 80                             |
| GEVK150 | 460/60/3 | 22.4           | 9.2           | 74.6          | 2           | 4.0              | 3               | 1              | 24.70                    | 30                             |
| GEVK150 | 208/60/3 | 59.4           | 22.4          | 166.2         | 2           | 14.6             | 5               | 1              | 65.00                    | 80                             |
| GEVK150 | 230/60/3 | 58.0           | 22.4          | 166.2         | 2           | 13.2             | 5               | 1              | 63.60                    | 80                             |
| GEVK150 | 460/60/3 | 25.0           | 9.2           | 74.6          | 2           | 6.6              | 5               | 1              | 27.30                    | 35                             |
| GEVK180 | 208/60/3 | 64.2           | 27.7          | 191           | 2           | 8.8              | 3               | 1              | 71.13                    | 90                             |
| GEVK180 | 230/60/3 | 63.4           | 27.7          | 191           | 2           | 8.0              | 3               | 1              | 70.33                    | 90                             |
| GEVK180 | 460/60/3 | 27.0           | 11.5          | 103           | 2           | 4.0              | 3               | 1              | 29.88                    | 40                             |
| GEVK180 | 208/60/3 | 70.0           | 27.7          | 191           | 2           | 14.6             | 5               | 1              | 76.93                    | 100                            |



## Electrical Data

**Table 153. Electrical data two speed blower motor (6 to 25 tons) (continued)**

| Model   | Volts    | Total Unit FLA | Comp RLA (ea) | Comp LRA (ea) | No. of Comp | Blower Motor FLA | Blower Motor HP | Fan Motors No. | Minimum Circuit Ampacity | Maximum Overcurrent Protection |
|---------|----------|----------------|---------------|---------------|-------------|------------------|-----------------|----------------|--------------------------|--------------------------------|
| GEVK180 | 230/60/3 | 68.6           | 27.7          | 191           | 2           | 13.2             | 5               | 1              | 75.53                    | 100                            |
| GEVK180 | 460/60/3 | 29.6           | 11.5          | 103           | 2           | 6.6              | 5               | 1              | 32.48                    | 40                             |
| GEVK180 | 208/60/3 | 77.5           | 27.7          | 191           | 2           | 22.1             | 7.5             | 1              | 84.43                    | 110                            |
| GEVK180 | 230/60/3 | 75.4           | 27.7          | 191           | 2           | 20.0             | 7.5             | 1              | 82.33                    | 110                            |
| GEVK180 | 460/60/3 | 33.0           | 11.5          | 103           | 2           | 10.0             | 7.5             | 1              | 35.88                    | 45                             |
| GEVK240 | 208/60/3 | 71.6           | 28.5          | 255           | 2           | 14.6             | 5               | 1              | 78.72                    | 100                            |
| GEVK240 | 230/60/3 | 70.2           | 28.5          | 255           | 2           | 13.2             | 5               | 1              | 77.33                    | 100                            |
| GEVK240 | 460/60/3 | 33.6           | 13.5          | 123           | 2           | 6.6              | 5               | 1              | 36.98                    | 50                             |
| GEVK240 | 208/60/3 | 79.1           | 28.5          | 255           | 2           | 22.1             | 7.5             | 1              | 86.23                    | 110                            |
| GEVK240 | 230/60/3 | 77.0           | 28.5          | 255           | 2           | 20.0             | 7.5             | 1              | 84.13                    | 110                            |
| GEVK240 | 460/60/3 | 37             | 13.5          | 123           | 2           | 10               | 7.5             | 1              | 40.375                   | 50                             |
| GEVK240 | 208/60/3 | 79.1           | 28.5          | 255           | 2           | 22.1             | 7.5             | 1              | 86.225                   | 110                            |
| GEVK240 | 230/60/3 | 77             | 28.5          | 255           | 2           | 20               | 7.5             | 1              | 84.125                   | 110                            |
| GEVK240 | 460/60/3 | 37             | 13.5          | 123           | 2           | 10               | 7.5             | 1              | 40.375                   | 50                             |
| GEVK240 | 208/60/3 | 84.6           | 28.5          | 255           | 2           | 27.6             | 10              | 1              | 91.725                   | 110                            |
| GEVK240 | 230/60/3 | 82             | 28.5          | 255           | 2           | 25               | 10              | 1              | 89.125                   | 110                            |
| GEVK240 | 460/60/3 | 40             | 13.5          | 123           | 2           | 13               | 10              | 1              | 43.375                   | 50                             |
| GEVK240 | 208/60/3 | 84.6           | 28.5          | 255           | 2           | 27.6             | 10              | 1              | 91.725                   | 110                            |
| GEVK240 | 230/60/3 | 82             | 28.5          | 255           | 2           | 25               | 10              | 1              | 89.125                   | 110                            |
| GEVK240 | 460/60/3 | 40             | 13.5          | 123           | 2           | 13               | 10              | 1              | 43.375                   | 50                             |
| GEVK240 | 460/60/3 | 47             | 13.5          | 123           | 2           | 20               | 15              | 1              | 50.375                   | 60                             |
| GEVK240 | 460/60/3 | 47             | 13.5          | 123           | 2           | 20               | 15              | 1              | 50.375                   | 60                             |
| GEVK300 | 208/60/3 | 96.2           | 40.8          | 270           | 2           | 14.6             | 5               | 1              | 106.4                    | 125                            |
| GEVK300 | 230/60/3 | 94.8           | 40.8          | 270           | 2           | 13.2             | 5               | 1              | 105                      | 125                            |
| GEVK300 | 460/60/3 | 45.4           | 19.4          | 147           | 2           | 6.6              | 5               | 1              | 50.25                    | 60                             |
| GEVK300 | 208/60/3 | 103.7          | 40.8          | 270           | 2           | 22.1             | 7.5             | 1              | 113.9                    | 150                            |
| GEVK300 | 230/60/3 | 101.6          | 40.8          | 270           | 2           | 20               | 7.5             | 1              | 111.8                    | 150                            |
| GEVK300 | 460/60/3 | 48.8           | 19.4          | 147           | 2           | 10               | 7.5             | 1              | 53.65                    | 70                             |
| GEVK300 | 208/60/3 | 109.2          | 40.8          | 270           | 2           | 27.6             | 10              | 1              | 119.4                    | 150                            |
| GEVK300 | 230/60/3 | 106.6          | 40.8          | 270           | 2           | 25               | 10              | 1              | 116.8                    | 150                            |
| GEVK300 | 460/60/3 | 51.8           | 19.4          | 147           | 2           | 13               | 10              | 1              | 56.65                    | 70                             |
| GEVK300 | 460/60/3 | 58.8           | 19.4          | 147           | 2           | 20               | 15              | 1              | 63.65                    | 80                             |

**Table 154. Electrical minimum and maximum (0.5 to 25 tons)**

| Digit 8 | Rated Voltage | Hz | pH | Min Utiliz. Volts | Max Utiliz. Volts |
|---------|---------------|----|----|-------------------|-------------------|
| 1       | 208           | 60 | 1  | 197               | 229               |
| 2       | 230           | 60 | 1  | 207               | 253               |
| 3       | 208           | 60 | 3  | 187               | 229               |
| 4       | 460           | 60 | 3  | 414               | 506               |
| 5       | 575           | 60 | 3  | 518               | 633               |
| 6       | 220-240       | 50 | 1  | 198               | 264               |
| 7       | 265           | 60 | 1  | 239               | 292               |
| 8       | 230           | 60 | 3  | 207               | 253               |
| 9       | 380-415       | 50 | 3  | 342               | 456               |
| A       | 208-230       | 60 | 1  | 197               | 253               |
| B       | 208-230       | 60 | 3  | 187               | 253               |

**Table 155. GEV/H Electric duct heater data (0.5-6T)**

| MODEL    | EH Size | Volts        | kW        | Amps      | EH MOP |
|----------|---------|--------------|-----------|-----------|--------|
| GEV/H006 | Medium  | 208-230/60/1 | 1.2/1.5   | 5.9/6.5   | 15     |
| GEV/H006 | Medium  | 265/60/1     | 1.4       | 5.2       | 15     |
| GEV/H009 | Medium  | 208-230/60/1 | 1.2/1.5   | 5.9/6.5   | 15     |
| GEV/H009 | Medium  | 265/60/1     | 1.4       | 5.2       | 15     |
| GEV/H012 | Medium  | 208-230/60/1 | 1.2/1.5   | 5.9/6.5   | 15     |
| GEV/H012 | Medium  | 265/60/1     | 1.4       | 5.2       | 15     |
| GEV/H015 | Medium  | 208-230/60/1 | 2.0/2.5   | 9.8/10.9  | 15     |
| GEV/H015 | Medium  | 265/60/1     | 2.3       | 8.6       | 15     |
| GEV/H018 | Medium  | 208-230/60/1 | 2.0/2.5   | 9.8/10.9  | 15     |
| GEV/H018 | Medium  | 265/60/1     | 2.3       | 8.6       | 15     |
| GEV/H024 | Medium  | 208-230/60/1 | 3.3/4.0   | 15.7/17.4 | 25     |
| GEV/H024 | Medium  | 265/60/1     | 3.7       | 13.8      | 20     |
| GEV/H024 | Medium  | 208-230/60/3 | 3.3/4.0   | 9.1/10.1  | 15     |
| GEV/H024 | Medium  | 460/60/3     | 3.7       | 4.6       | 15     |
| GEV/H030 | Medium  | 208-230/60/1 | 3.3/4.0   | 15.7/17.4 | 25     |
| GEV/H030 | Medium  | 208-230/60/3 | 3.3/4.0   | 9.1/10.1  | 20     |
| GEV/H030 | Medium  | 265/60/1     | 3.7       | 13.8      | 15     |
| GEV/H030 | Medium  | 460/60/3     | 3.7       | 4.6       | 15     |
| GEV/H036 | Low     | 208-230/60/1 | 4.9/6.0   | 23.6/26.1 | 35     |
| GEV/H036 | Medium  | 208-230/60/1 | 8.2/10.0  | 39.3/43.5 | 60     |
| GEV/H036 | High    | 208-230/60/1 | 12.3/15.0 | 59.0/65.2 | 90     |
| GEV/H036 | Low     | 265/60/1     | 5.5       | 20.7      | 30     |
| GEV/H036 | Medium  | 265/60/1     | 9.2       | 34.5      | 50     |
| GEV/H036 | High    | 265/60/1     | 13.7      | 51.8      | 70     |
| GEV/H036 | Low     | 208-230/60/3 | 4.9/6.0   | 13.6/15.1 | 20     |



## Electrical Data

**Table 155. GEV/H Electric duct heater data (0.5-6T) (continued)**

| MODEL    | EH Size | Volts        | kW        | Amps      | EH MOP |
|----------|---------|--------------|-----------|-----------|--------|
| GEV/H036 | Medium  | 208-230/60/3 | 8.2/10.0  | 22.7/25.1 | 35     |
| GEV/H036 | High    | 208-230/60/3 | 12.3/15.0 | 34.1/37.7 | 50     |
| GEV/H036 | Low     | 460/60/3     | 5.5       | 6.9       | 15     |
| GEV/H036 | Medium  | 460/60/3     | 9.2       | 11.5      | 20     |
| GEV/H036 | High    | 460/60/3     | 13.8      | 17.3      | 25     |
| GEV/H042 | Low     | 208-230/60/1 | 4.9/6.0   | 23.6/26.1 | 35     |
| GEV/H042 | Medium  | 208-230/60/1 | 8.2/10.0  | 39.3/43.5 | 60     |
| GEV/H042 | High    | 208-230/60/1 | 12.3/15.0 | 59.0/65.2 | 90     |
| GEV/H042 | Low     | 208-230/60/3 | 4.9/6.0   | 13.6/15.1 | 20     |
| GEV/H042 | Medium  | 208-230/60/3 | 8.2/10.0  | 22.7/25.1 | 35     |
| GEV/H042 | High    | 208-230/60/3 | 12.3/15.0 | 34.1/37.7 | 50     |
| GEV/H042 | Low     | 460/60/3     | 5.5       | 6.9       | 15     |
| GEV/H042 | Medium  | 460/60/3     | 9.2       | 11.5      | 20     |
| GEV/H042 | High    | 460/60/3     | 13.8      | 17.3      | 25     |
| GEV/H048 | Low     | 208-230/60/1 | 4.9/6.0   | 23.6/26.1 | 35     |
| GEV/H048 | Medium  | 208-230/60/1 | 8.2/10.0  | 39.3/43.5 | 60     |
| GEV/H048 | High    | 208-230/60/1 | 12.3/15.0 | 59.0/65.2 | 90     |
| GEV/H048 | Low     | 208-230/60/3 | 4.9/6.0   | 13.6/15.1 | 20     |
| GEV/H048 | Medium  | 208-230/60/3 | 8.2/10.0  | 22.7/25.1 | 35     |
| GEV/H048 | High    | 208-230/60/3 | 12.3/15.0 | 34.1/37.7 | 50     |
| GEV/H048 | Low     | 460/60/3     | 5.5       | 6.9       | 15     |
| GEV/H048 | Medium  | 460/60/3     | 9.2       | 11.5      | 20     |
| GEV/H048 | High    | 460/60/3     | 13.8      | 17.3      | 25     |
| GEV/H048 | High    | 575/60/3     | 13.7      | 13.8      | 35     |
| GEV/H060 | Low     | 208-230/60/1 | 4.9/6.0   | 23.6/26.1 | 35     |
| GEV/H060 | Medium  | 208-230/60/1 | 8.2/10.0  | 39.3/43.5 | 60     |
| GEV/H060 | High    | 208-230/60/1 | 12.3/15.0 | 59.0/65.2 | 90     |
| GEV/H060 | Low     | 208-230/60/3 | 4.9/6.0   | 13.6/15.1 | 20     |
| GEV/H060 | Medium  | 208-230/60/3 | 8.2/10.0  | 22.7/25.1 | 35     |
| GEV/H060 | High    | 208-230/60/3 | 12.3/15.0 | 34.1/37.7 | 50     |
| GEV/H060 | Low     | 460/60/3     | 5.5       | 6.9       | 15     |
| GEV/H060 | Medium  | 460/60/3     | 9.2       | 11.5      | 20     |
| GEV/H060 | High    | 460/60/3     | 13.8      | 17.3      | 25     |
| GEV/H060 | High    | 575/60/3     | 13.7      | 13.8      | 35     |

**Note:** Electric heat performance table with heat rise data can be found in Electric Heat and 575V Water Source Heat Pump 0 to 5 Tons Installation Instructions (WSHP-SVN011\*-EN).

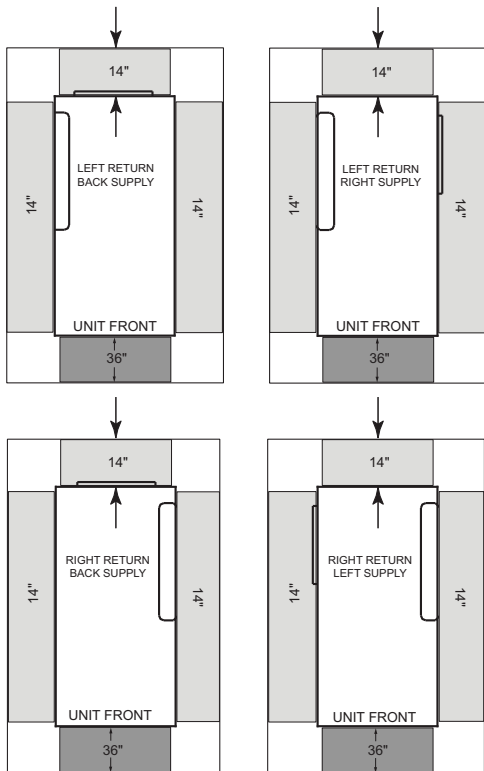


# Unit Dimensions

## Service Clearances

Per NEC requirements, 36-inches of access and working space is provided and maintained around all control boxes and electrical equipment to permit ready and safe operation and maintenance of such equipment. Local codes may require more clearance to electrical equipment. Check all code requirements prior to unit installation.

**Figure 42. Clearances - GEH 0.5 to 5 tons**

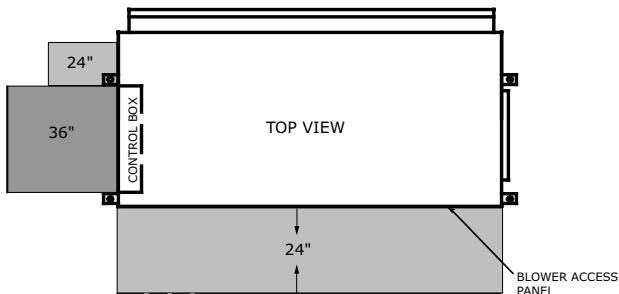


A minimum 14-inch clearance for servicing the unit is required for all 0.5 to 5 tons configurations from other mechanical and electrical equipment (where shown) to enable panel removal from the unit for service/maintenance ability. The optimum clearance required is 20-inches.

**Notes:**

- Return air direction (left-hand or right hand) is NOT field convertible. Units must be ordered with correct return air side.
- For horizontal models, be sure to allow enough clearance between the condensate drain and the ceiling to allow for pitching of the condensate line. See for pitching requirements.

**Figure 43. Clearance - GEH 6 to 15 tons**

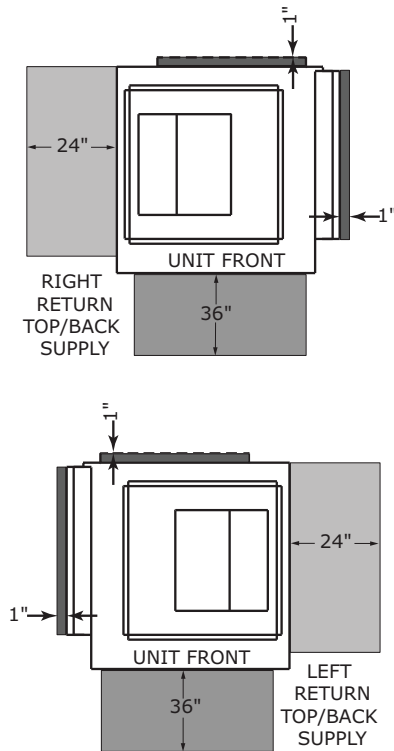


Service clearance dimensions for the GEH 6 to 15 tons horizontal includes a two-side access appropriate for control and blower motor/wheel access.

**Note:** For horizontal models, confirm enough clearance between the condensate drain and the ceiling for pitching of the condensate line. See for pitching requirements.

## Unit Dimensions

**Figure 44. Clearance – GEV 0.5 to 5 tons**



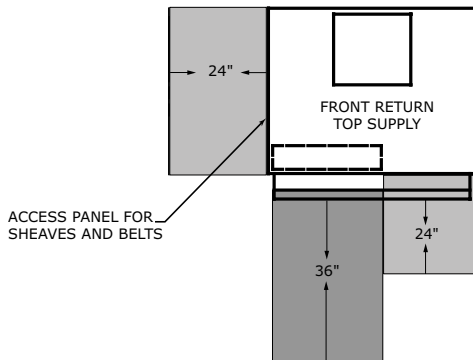
A 24-inch clearance from other mechanical and electrical equipment (where shown) is recommended for most unit configurations. This will enable panel removal from the unit for service/maintenance.

The 24-inch side clearance on GEVK 0.5 to 5T models is for optimal access only. Side clearance is not a requirement as most components can be accessed from the front of the unit.

A 1-inch minimum clearance between the filter rack and any obstacle is required for units in a free return application to provide proper air flow to the air-to-refrigerant coil. A 12-inch minimum clearance between the filter rack and any obstacle should be provided to properly attached ductwork.

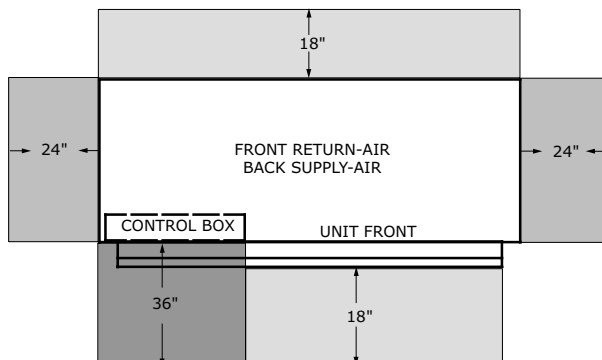
The 1-inch dimension shown in the back of the unit represents the supply duct collar for the back supply option. This clearance is needed to clear these flanges.

**Figure 45. Clearance - GEV 6 to 10 tons**



A 24-inch clearance from other mechanical and electrical equipment (where shown) is recommended for all configurations. The unit may be serviced through the front access panel or remaining open sides.

**Figure 46. Clearance - GEV 12.5 to 25 tons**



A 24-inch clearance from other mechanical and electrical equipment (where shown) is recommended for all configurations. The unit may be serviced through the front access panel.

## Dimensional Data

Figure 47. Left return/back supply (GEHK)

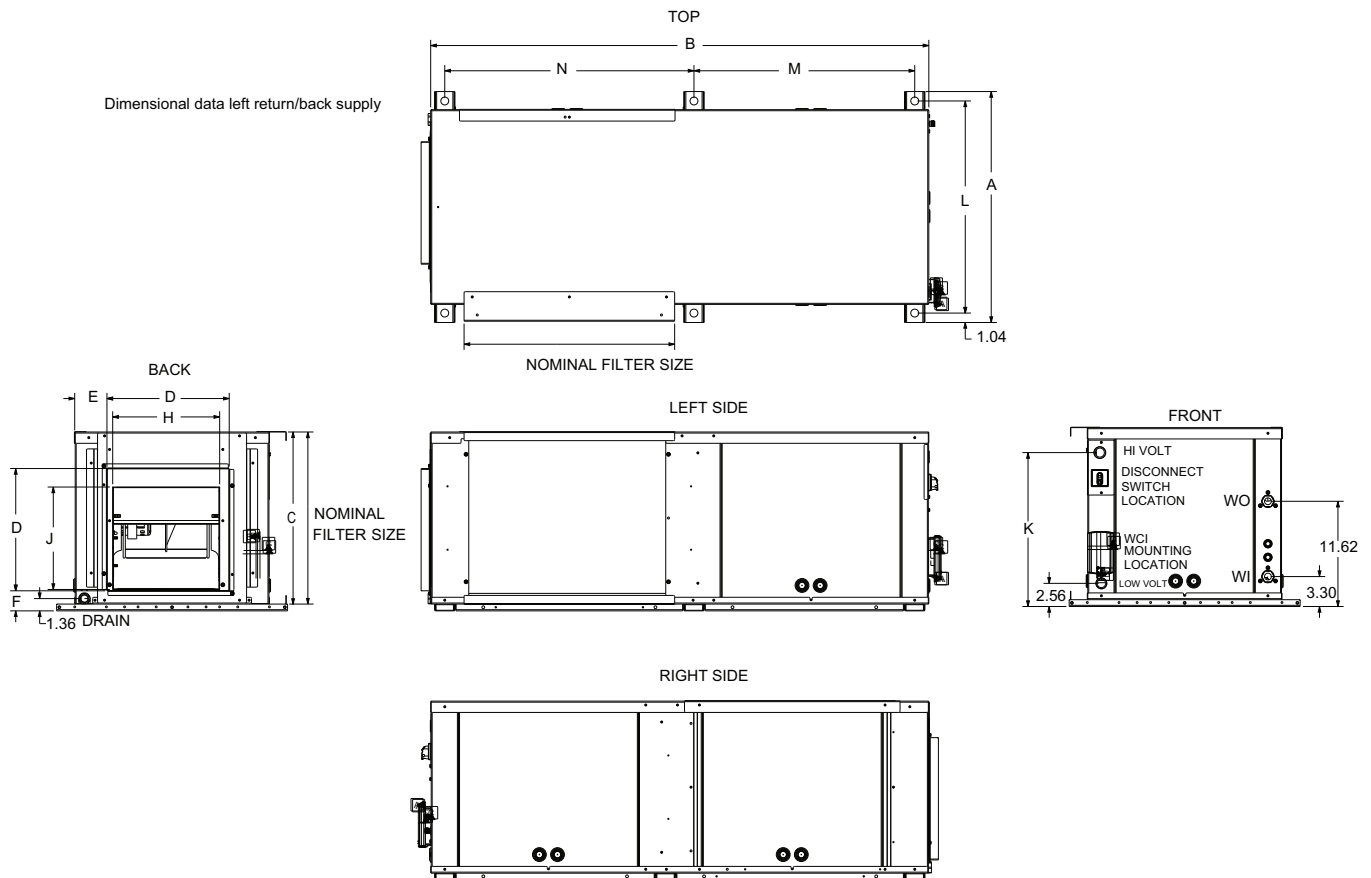


Table 156. Dimensional data left return/back supply (GEHK)

| Cab Size | GEHK     | Width | Depth | Height | Duct Collar | Duct Collar Location |      |       | Blower Opening |       | Hi Volt | Unit hanging location |       |         |      | Nomi-nal Filter Size | W.I. NPTI | W.O. NPTI | DRAIN NPTI |
|----------|----------|-------|-------|--------|-------------|----------------------|------|-------|----------------|-------|---------|-----------------------|-------|---------|------|----------------------|-----------|-----------|------------|
|          |          | A     | B     | C      | D           | E                    | F    | H     | J              | K     | L       | M                     | N     |         |      |                      |           |           |            |
| A        | 006-012  | 23.00 | 41.00 | 15.75  | 11.50       | 3.50                 | 2.25 | 7.88  | 7.63           | 13.00 | 21.00   | 17.50                 | 20.50 | 14 x 16 | 0.50 | 0.50                 | 0.75      |           |            |
| B        | 015, 018 | 25.50 | 46.00 | 17.75  | 13.50       | 3.50                 | 2.00 | 10.13 | 9.38           | 15.00 | 23.50   | 19.88                 | 23.00 | 16 x 19 | 0.50 | 0.50                 | 0.75      |           |            |
| C        | 024, 030 | 25.50 | 49.00 | 18.75  | 13.50       | 3.88                 | 2.25 | 10.50 | 11.25          | 16.00 | 23.50   | 21.38                 | 24.50 | 17 x 20 | 0.75 | 0.75                 | 0.75      |           |            |
| D        | 036, 042 | 25.50 | 55.00 | 19.75  | 13.50       | 3.50                 | 2.25 | 11.75 | 11.25          | 17.00 | 23.50   | 24.38                 | 27.50 | 18 x 23 | 0.75 | 0.75                 | 0.75      |           |            |
| E        | 048, 060 | 28.00 | 68.00 | 21.75  | 16.50       | 3.63                 | 2.13 | 13.88 | 13.50          | 19.00 | 26.00   | 30.88                 | 34.00 | 20 x 30 | 1.00 | 1.00                 | 0.75      |           |            |

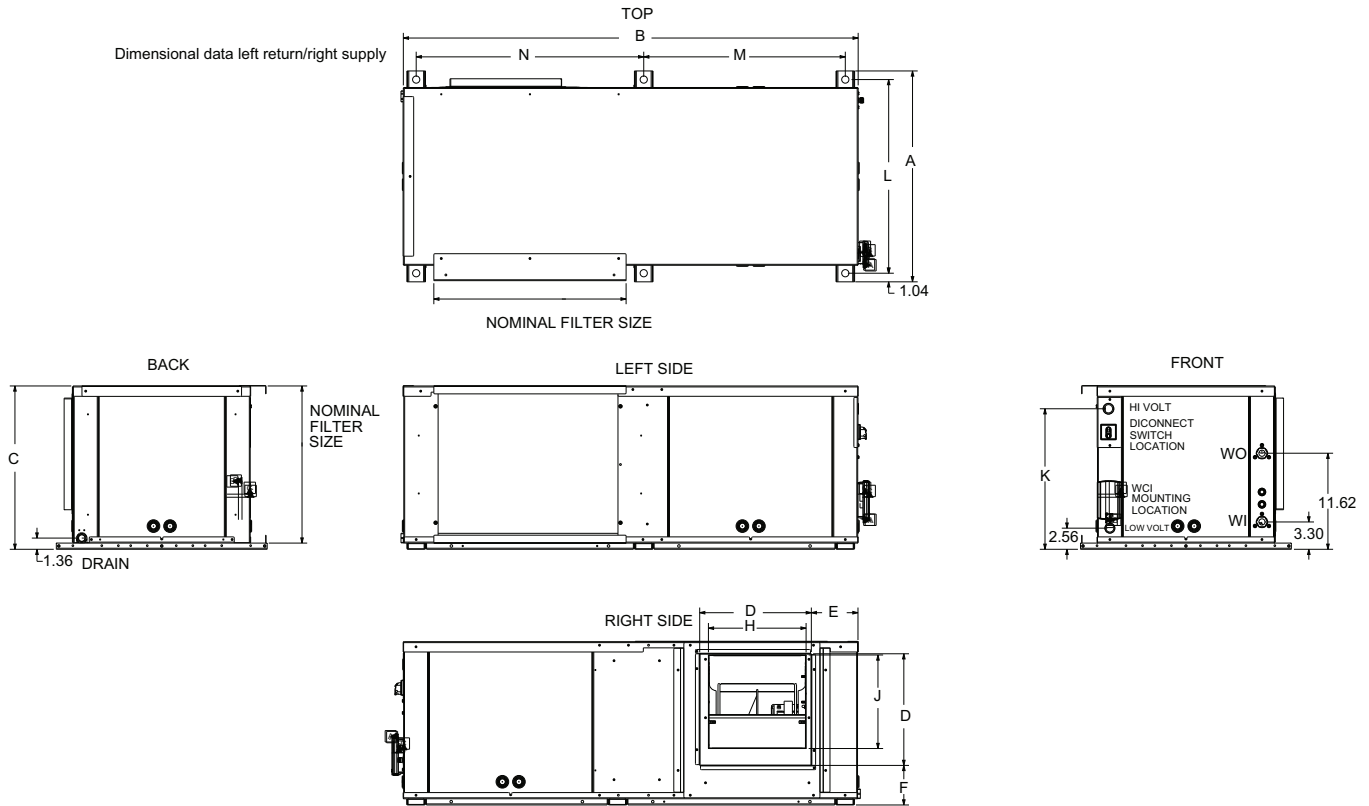
Note: Dimensions represent unit hanging dimensions including base rails for hanging.

Table 157. Horizontal cabinet dimensions left return/back supply (GEHK)

| GEHK    | Width | Depth | Height |
|---------|-------|-------|--------|
| 006-012 | 19.00 | 41.00 | 15.00  |
| 015-018 | 21.50 | 46.00 | 17.00  |
| 024-030 | 21.50 | 49.00 | 18.00  |
| 036-042 | 21.50 | 55.00 | 19.00  |
| 048-060 | 24.00 | 68.00 | 21.00  |

Note: Cabinet dimensions only. Not including hanging brackets and base rails.

**Figure 48. Left return/right supply (GEHK)**



**Table 158. Dimensional data left return/right supply (GEHK)**

| Cab Size | GEHK     | Width | Depth | Height | Duct Collar | Duct Collar Location |      | Blower Opening |       | Hi Volt | Unit hanging location |       |       | Nominal Filter Size | W.I. NPTI | W.O. NPTI | DRAIN NPTI |
|----------|----------|-------|-------|--------|-------------|----------------------|------|----------------|-------|---------|-----------------------|-------|-------|---------------------|-----------|-----------|------------|
|          |          | A     | B     | C      | D           | E                    | F    | H              | J     | K       | L                     | M     | N     |                     |           |           |            |
| A        | 006-012  | 23.00 | 41.00 | 15.75  | 11.50       | 5.75                 | 3.00 | 7.88           | 7.63  | 13.00   | 21.00                 | 17.50 | 20.50 | 14 x 16             | 0.50      | 0.50      | 0.75       |
| B        | 015, 018 | 25.50 | 46.00 | 17.75  | 13.50       | 3.38                 | 3.00 | 10.13          | 9.38  | 15.00   | 23.50                 | 19.88 | 23.00 | 16 x 19             | 0.50      | 0.50      | 0.75       |
| C        | 024, 030 | 25.50 | 49.00 | 18.75  | 13.50       | 5.88                 | 4.00 | 10.50          | 11.25 | 16.00   | 23.50                 | 21.38 | 24.50 | 17 x 20             | 0.75      | 0.75      | 0.75       |
| D        | 036, 042 | 25.50 | 55.00 | 19.75  | 13.50       | 5.63                 | 4.75 | 11.75          | 11.25 | 17.00   | 23.50                 | 24.38 | 27.50 | 18 x 23             | 0.75      | 0.75      | 0.75       |
| E        | 048, 060 | 28.00 | 68.00 | 21.75  | 16.50       | 5.63                 | 3.88 | 13.88          | 13.50 | 19.00   | 26.00                 | 30.88 | 34.00 | 20 x 30             | 1.00      | 1.00      | 0.75       |

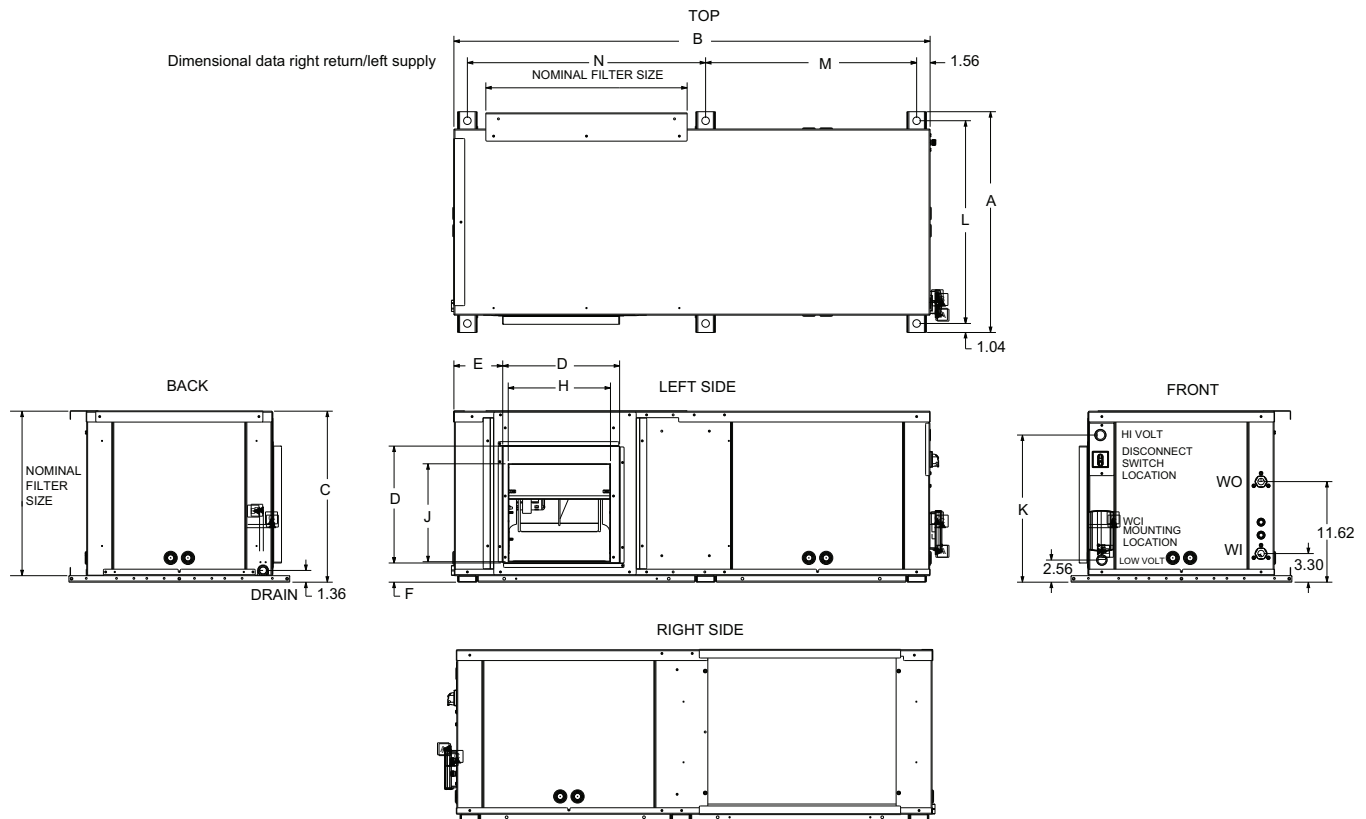
**Note:** Dimensions represent unit hanging dimensions including base rails for hanging.

**Table 159. Horizontal cabinet dimensions left return/right supply (GEHK)**

| GEHK    | Width | Depth | Height |
|---------|-------|-------|--------|
| 006-012 | 19.00 | 41.00 | 15.00  |
| 015-018 | 21.50 | 46.00 | 17.00  |
| 024-030 | 21.50 | 49.00 | 18.00  |
| 036-042 | 21.50 | 55.00 | 19.00  |
| 048-060 | 24.00 | 68.00 | 21.00  |

**Note:** Cabinet dimensions only. Not including hanging brackets and base rails.

**Figure 49. Right return/left supply (GEHK)**



**Table 160. Dimensional data right return/left supply (GEHK)**

| Cab Size | GEHK     | Width | Depth | Height | Duct Collar | Duct Collar Location |      | Blower Opening |       | Hi Volt | Unit hanging location |       |       | Nominal Filter Size | W.I. NPTI | W.O. NPTI | DRAIN NPTI |
|----------|----------|-------|-------|--------|-------------|----------------------|------|----------------|-------|---------|-----------------------|-------|-------|---------------------|-----------|-----------|------------|
|          |          | A     | B     | C      | D           | E                    | F    | H              | J     | K       | L                     | M     | N     |                     |           |           |            |
| A        | 006-012  | 23.00 | 41.00 | 15.75  | 11.50       | 5.75                 | 2.25 | 7.88           | 7.63  | 13.00   | 21.00                 | 17.50 | 20.50 | 14 x 16             | 0.50      | 0.50      | 0.75       |
| B        | 015, 018 | 25.50 | 46.00 | 17.75  | 13.50       | 5.50                 | 2.00 | 10.13          | 9.38  | 15.00   | 23.50                 | 19.88 | 23.00 | 16 x 19             | 0.50      | 0.50      | 0.75       |
| C        | 024, 030 | 25.50 | 49.00 | 18.75  | 13.50       | 5.88                 | 2.25 | 10.50          | 11.25 | 16.00   | 23.50                 | 21.38 | 24.50 | 17 x 20             | 0.75      | 0.75      | 0.75       |
| D        | 036, 042 | 25.50 | 55.00 | 19.75  | 13.50       | 5.63                 | 2.25 | 11.75          | 11.25 | 17.00   | 23.50                 | 24.38 | 27.50 | 18 x 23             | 0.75      | 0.75      | 0.75       |
| E        | 048, 060 | 28.00 | 68.00 | 21.75  | 16.50       | 5.63                 | 2.13 | 13.88          | 13.50 | 19.00   | 26.00                 | 30.88 | 34.00 | 20 x 30             | 1.00      | 1.00      | 0.75       |

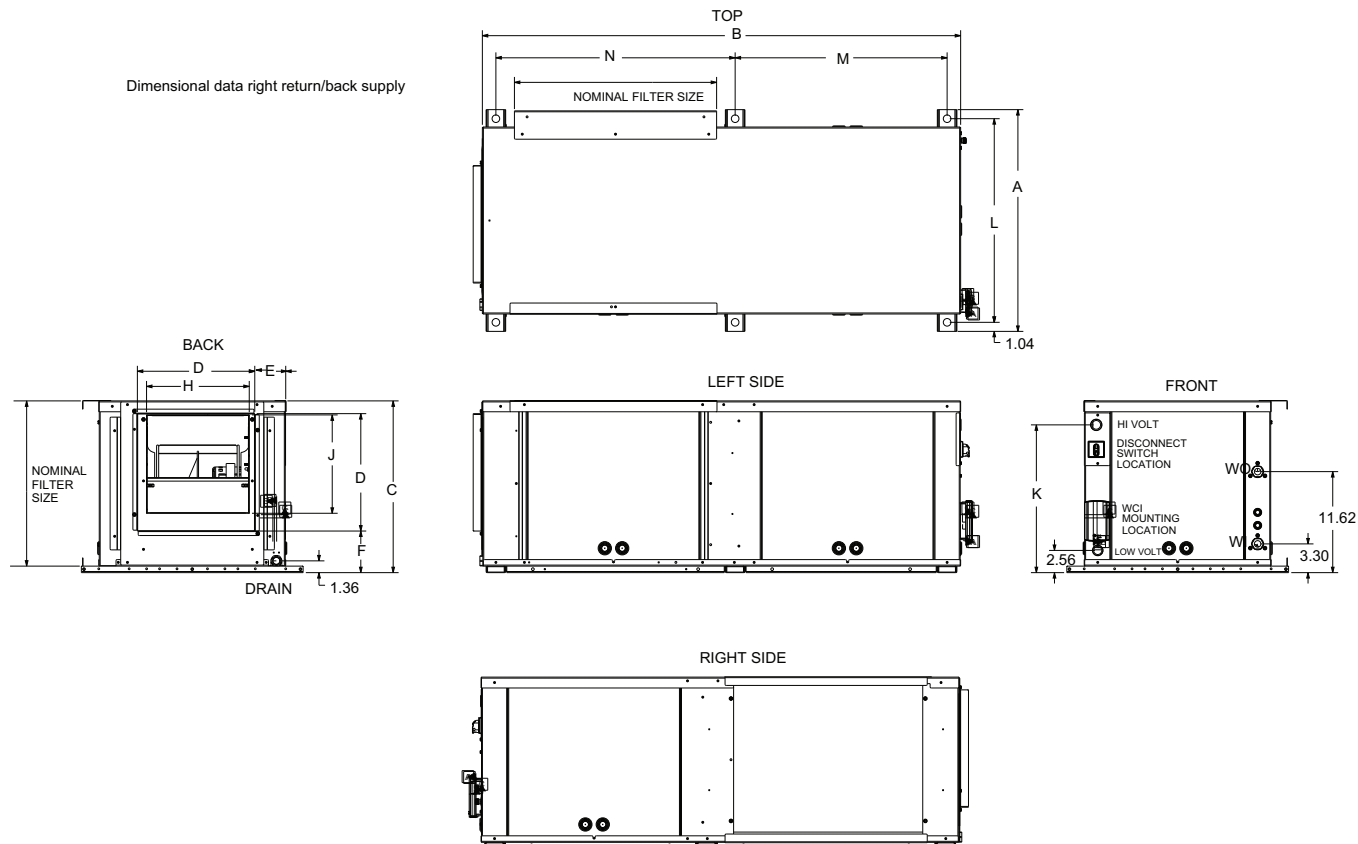
**Note:** Dimensions represent unit hanging dimensions including base rails for hanging.

**Table 161. Horizontal cabinet dimensions right return/left supply (GEHK)**

| GEHK    | Width | Depth | Height |
|---------|-------|-------|--------|
| 006-012 | 19.00 | 41.00 | 15.00  |
| 015-018 | 21.50 | 46.00 | 17.00  |
| 024-030 | 21.50 | 49.00 | 18.00  |
| 036-042 | 21.50 | 55.00 | 19.00  |
| 048-060 | 24.00 | 68.00 | 21.00  |

**Note:** Cabinet dimensions only. Not including hanging brackets and base rails.

**Figure 50. Right return/back supply (GEHK)**



**Table 162. Dimensional data right return/back supply (GEHK)**

| Cab Size | GEHK     | Width | Depth | Height | Duct Collar | Duct Collar Location |      | Blower Opening |       | Hi Volt | Unit hanging location |       |       | Nominal Filter Size | W.I. NPTI | W.O. NPTI | DRAIN NPTI |
|----------|----------|-------|-------|--------|-------------|----------------------|------|----------------|-------|---------|-----------------------|-------|-------|---------------------|-----------|-----------|------------|
|          |          | A     | B     | C      | D           | E                    | F    | H              | J     | K       | L                     | M     | N     |                     |           |           |            |
| A        | 006-012  | 23.00 | 41.00 | 15.75  | 11.50       | 3.50                 | 3.00 | 7.88           | 7.63  | 13.00   | 21.00                 | 17.50 | 20.50 | 14 x 16             | 0.50      | 0.50      | 0.75       |
| B        | 015, 018 | 25.50 | 46.00 | 17.75  | 13.50       | 3.25                 | 3.00 | 10.13          | 9.38  | 15.00   | 23.50                 | 19.88 | 23.00 | 16 x 19             | 0.50      | 0.50      | 0.75       |
| C        | 024, 030 | 25.50 | 49.00 | 18.75  | 13.50       | 3.88                 | 4.00 | 10.50          | 11.25 | 16.00   | 23.50                 | 21.38 | 24.50 | 17 x 20             | 0.75      | 0.75      | 0.75       |
| D        | 036, 042 | 25.50 | 55.00 | 19.75  | 13.50       | 3.50                 | 4.75 | 11.75          | 11.25 | 17.00   | 23.50                 | 24.38 | 27.50 | 18 x 23             | 0.75      | 0.75      | 0.75       |
| E        | 048, 060 | 28.00 | 68.00 | 21.75  | 16.50       | 3.63                 | 3.88 | 13.88          | 13.50 | 19.00   | 26.00                 | 30.88 | 34.00 | 20 x 30             | 1.00      | 1.00      | 0.75       |

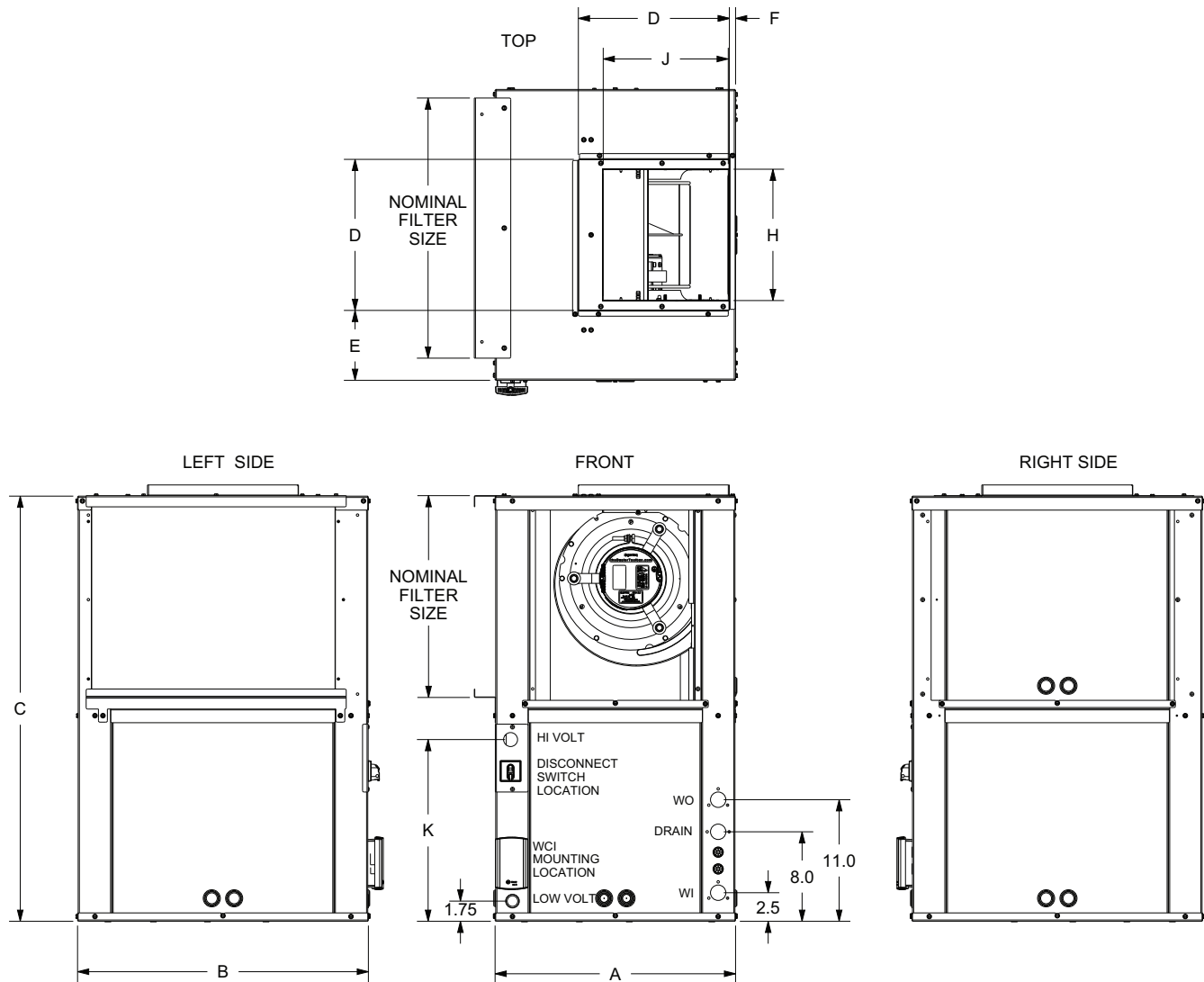
**Note:** Dimensions represent unit hanging dimensions including base rails for hanging.

**Table 163. Horizontal cabinet dimensions right return/back supply (GEHK)**

| GEHK    | Width | Depth | Height |
|---------|-------|-------|--------|
| 006-012 | 19.00 | 41.00 | 15.00  |
| 015-018 | 21.50 | 46.00 | 17.00  |
| 024-030 | 21.50 | 49.00 | 18.00  |
| 036-042 | 21.50 | 55.00 | 19.00  |
| 048-060 | 24.00 | 68.00 | 21.00  |

**Note:** Cabinet dimensions only. Not including hanging brackets and base rails.

**Figure 51. Left return/top supply (GEVK)**

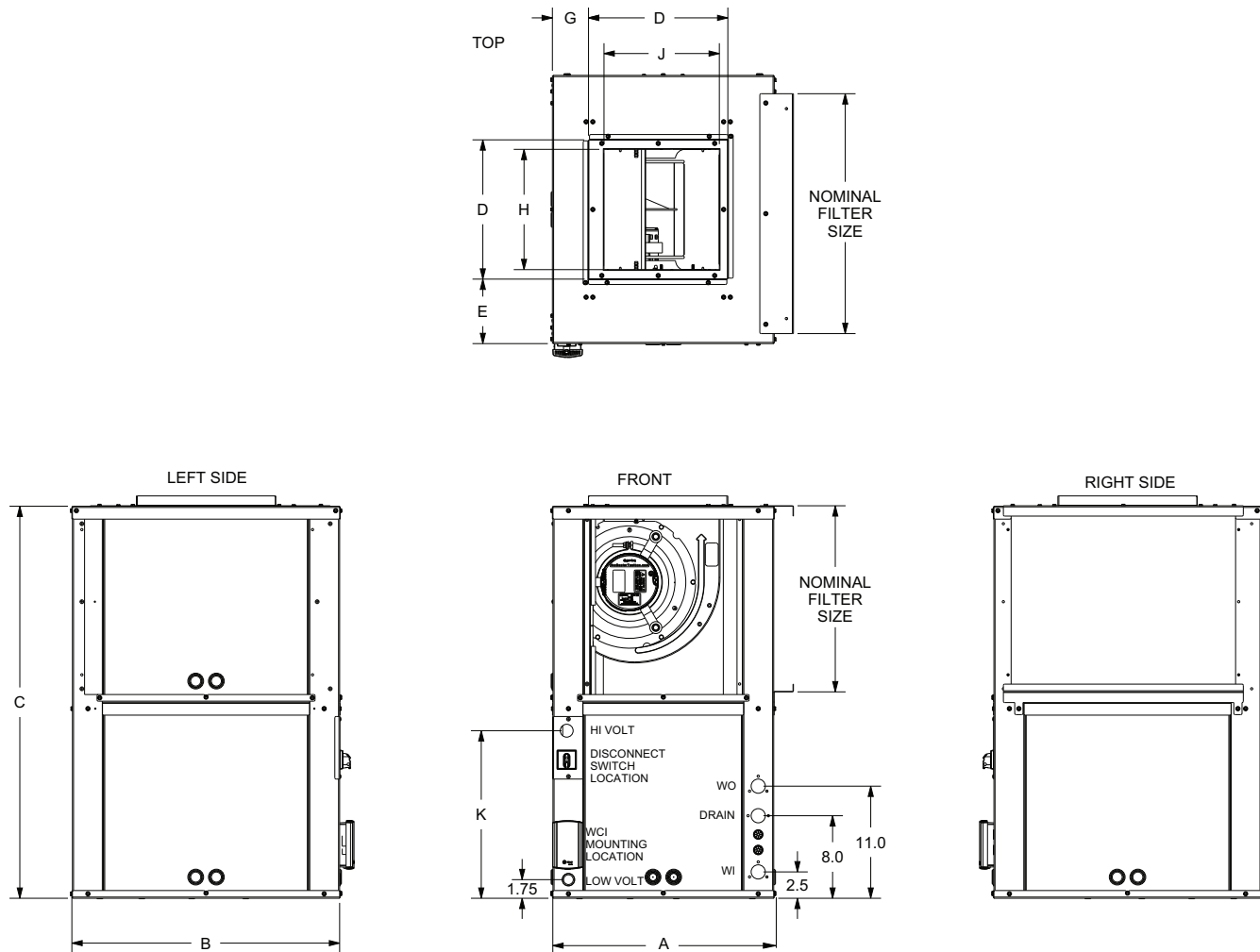


**Table 164. Dimensional data left return/top supply (GEVK)**

| Cab Size | GEVK    | Width | Depth | Height | Duct Collar | Duct Collar Location |      |      | Blower Opening |       | Hi Volt | Nominal Filter Size | W.I. NPTI | W.O. NPTI | Drain NPTI |
|----------|---------|-------|-------|--------|-------------|----------------------|------|------|----------------|-------|---------|---------------------|-----------|-----------|------------|
|          |         | A     | B     | C      | D           | E                    | F    | G    | H              | J     | K       |                     |           |           |            |
| A        | 006-012 | 19.00 | 19.00 | 30.00  | 11.38       | 3.70                 | 1.40 | 3.50 | 8.00           | 7.70  | 12.25   | 14 x 16             | 0.50      | 0.50      | 0.75       |
| B        | 015-018 | 21.50 | 21.50 | 34.00  | 13.25       | 4.00                 | 1.00 | 3.50 | 10.50          | 9.60  | 14.25   | 16 x 19             | 0.50      | 0.50      | 0.75       |
| C        | 024-030 | 21.50 | 23.00 | 36.00  | 13.25       | 4.75                 | 0.63 | 3.50 | 10.50          | 11.30 | 15.25   | 17 x 20             | 0.75      | 0.75      | 0.75       |
| D        | 036-042 | 21.50 | 26.00 | 38.00  | 13.25       | 6.25                 | 0.63 | 3.50 | 11.80          | 11.30 | 16.25   | 18 x 23             | 0.75      | 0.75      | 0.75       |
| E        | 048-060 | 24.00 | 32.50 | 42.00  | 16.50       | 7.25                 | 0.75 | 3.50 | 13.70          | 13.50 | 18.25   | 20 x 30             | 1         | 1         | 0.75       |

**Note:** Units in a free return application will require more than a 1-in. clearance to provide proper air flow to the unit's air-to-refrigerant coil.

**Figure 52. Right return/top supply (GEVK)**



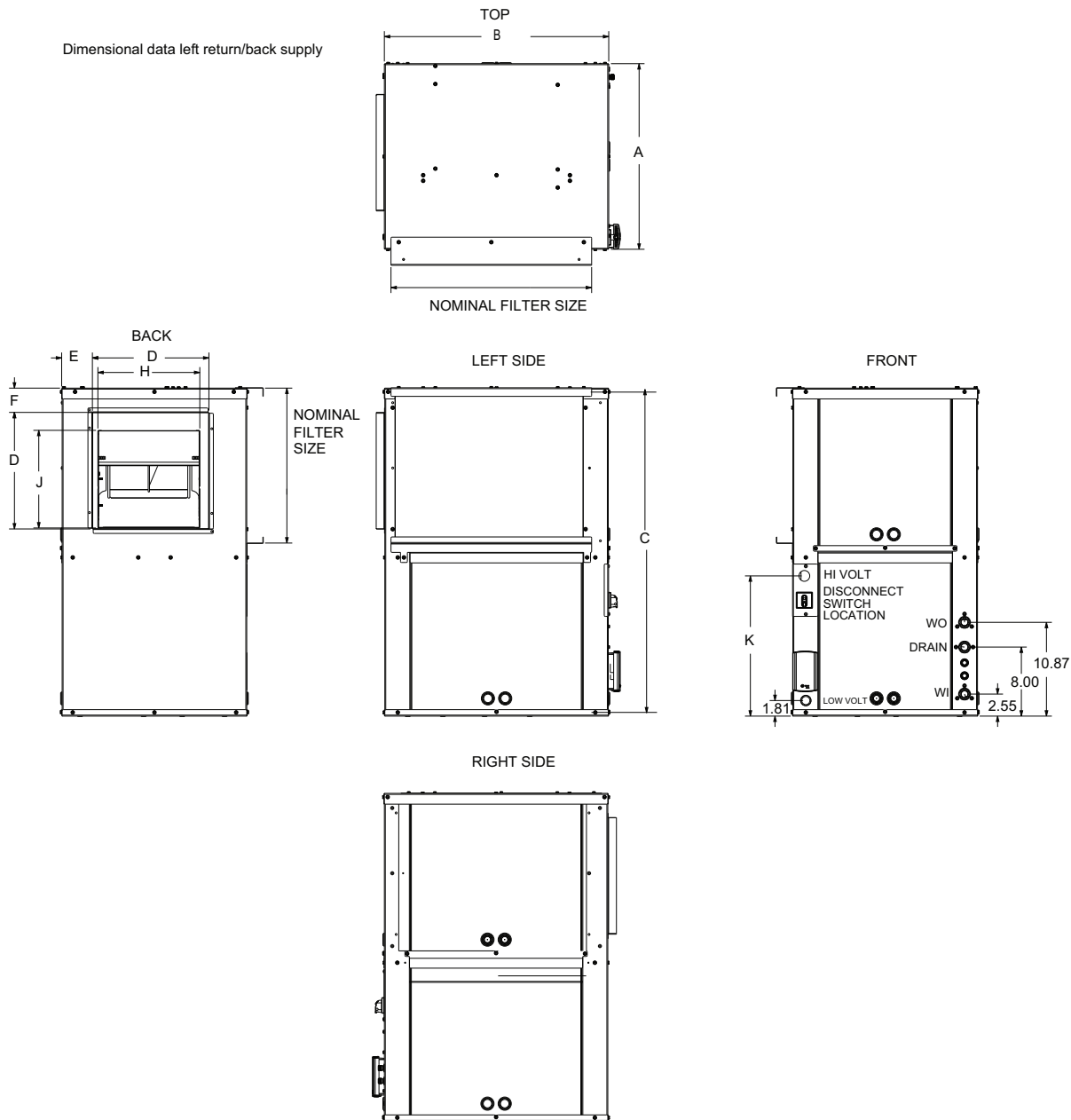
**Table 165. Dimensional data right return/top supply (GEVK)**

| Cab Size | GEVK    | Width | Depth | Height | Duct Collar | Duct Collar Location |      |      | Blower Opening |       | Hi Volt | Nominal Filter Size | W.I. NPTI | W.O. NPTI | Drain NPTI |
|----------|---------|-------|-------|--------|-------------|----------------------|------|------|----------------|-------|---------|---------------------|-----------|-----------|------------|
|          |         | A     | B     | C      | D           | E                    | F    | G    | H              | J     | K       |                     |           |           |            |
| A        | 006-012 | 19.00 | 19.00 | 30.00  | 11.38       | 3.70                 | 1.40 | 3.50 | 8.00           | 7.70  | 12.25   | 14 x 16             | 0.50      | 0.50      | 0.75       |
| B        | 015-018 | 21.50 | 21.50 | 34.00  | 13.25       | 4.00                 | 1.00 | 3.50 | 10.50          | 9.60  | 14.25   | 16 x 19             | 0.50      | 0.50      | 0.75       |
| C        | 024-030 | 21.50 | 23.00 | 36.00  | 13.25       | 4.75                 | 0.63 | 3.50 | 10.50          | 11.30 | 15.25   | 17 x 20             | 0.75      | 0.75      | 0.75       |
| D        | 036-042 | 21.50 | 26.00 | 38.00  | 13.25       | 6.25                 | 0.63 | 3.50 | 11.80          | 11.30 | 16.25   | 18 x 23             | 0.75      | 0.75      | 0.75       |
| E        | 048-060 | 24.00 | 32.50 | 42.00  | 16.50       | 7.25                 | 0.75 | 3.50 | 13.70          | 13.50 | 18.25   | 20 x 30             | 1         | 1         | 0.75       |

**Note:** Units in a free return application will require more than a 1-in. clearance to provide proper air flow to the unit's air-to-refrigerant coil.



**Figure 53. Left return/back supply (GEVK)**

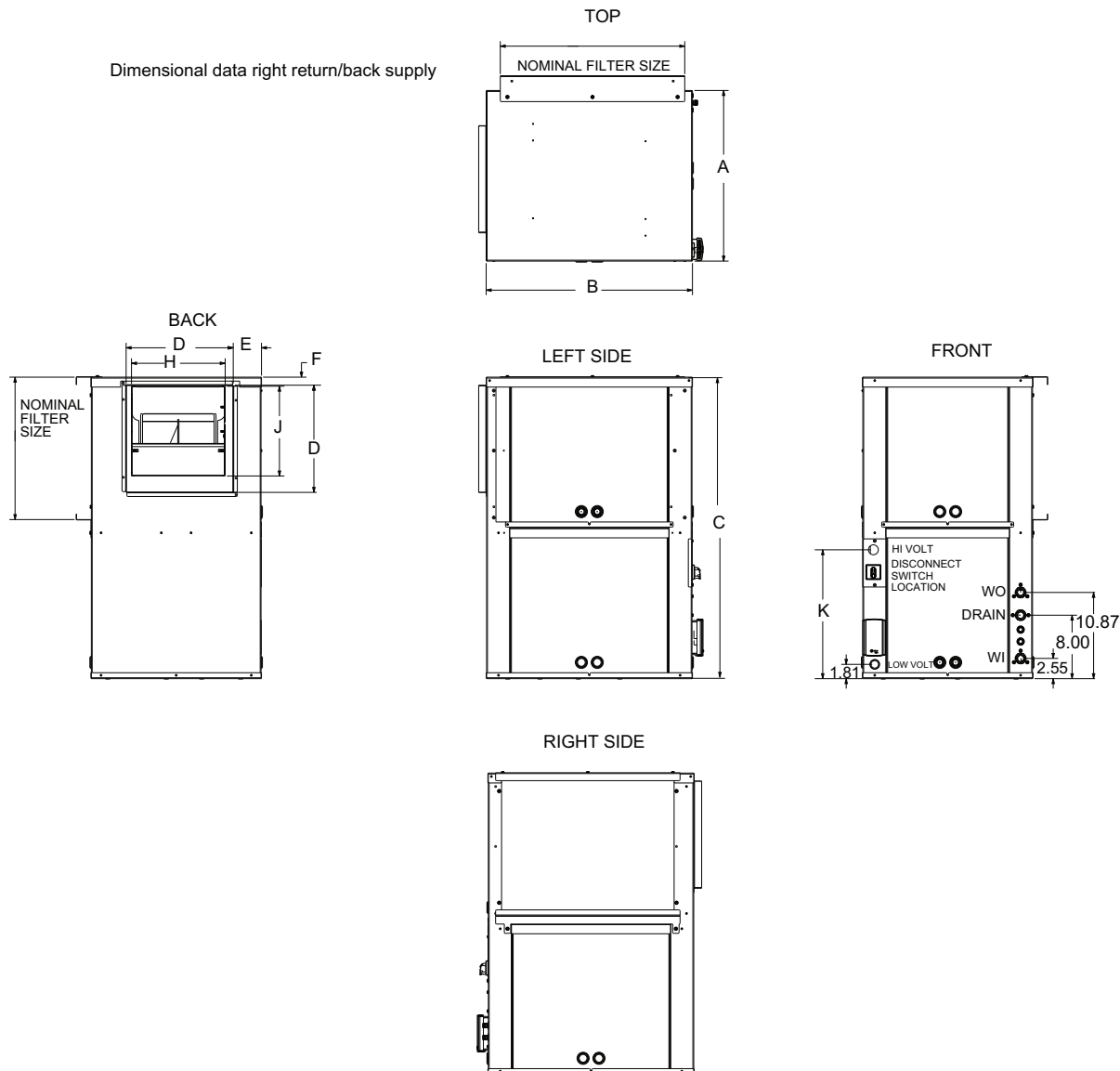


**Table 166. Dimensional data left return/back supply (GEVK)**

| Cab Size | GEVK    | Width | Depth | Height | Duct Collar | Duct Collar Location |      | Blower Opening |       | Hi Volt | Nominal Filter Size | W.I. NPTI | W.O. NPTI | Drain NPTI |
|----------|---------|-------|-------|--------|-------------|----------------------|------|----------------|-------|---------|---------------------|-----------|-----------|------------|
|          |         | A     | B     | C      | D           | E                    | F    | H              | J     | K       |                     |           |           |            |
| A        | 006-012 | 19.00 | 19.00 | 30.00  | 11.50       | 3.50                 | 2.25 | 7.88           | 7.63  | 12.25   | 14 x 16             | 0.50      | 0.50      | 0.75       |
| B        | 015,018 | 21.50 | 21.50 | 34.00  | 13.50       | 3.50                 | 2.00 | 10.13          | 9.38  | 14.25   | 16 x 19             | 0.50      | 0.50      | 0.75       |
| C        | 024,030 | 21.50 | 23.00 | 36.00  | 13.50       | 3.88                 | 2.25 | 10.50          | 11.25 | 15.25   | 17 x 20             | 0.75      | 0.75      | 0.75       |
| D        | 036,042 | 21.50 | 26.00 | 38.00  | 13.50       | 3.50                 | 2.75 | 11.75          | 11.25 | 16.25   | 18 x 23             | 0.75      | 0.75      | 0.75       |
| E        | 048,060 | 24.00 | 32.50 | 42.00  | 16.50       | 3.63                 | 2.13 | 13.88          | 13.50 | 18.25   | 20 x 30             | 1         | 1         | 0.75       |

**Note:** Units in a free return application will require more than a 1-in. clearance to provide proper air flow to the unit's air-to-refrigerant coil.

**Figure 54. Right return/back supply (GEVK)**



**Table 167. Dimensional data right return/back supply (GEVK)**

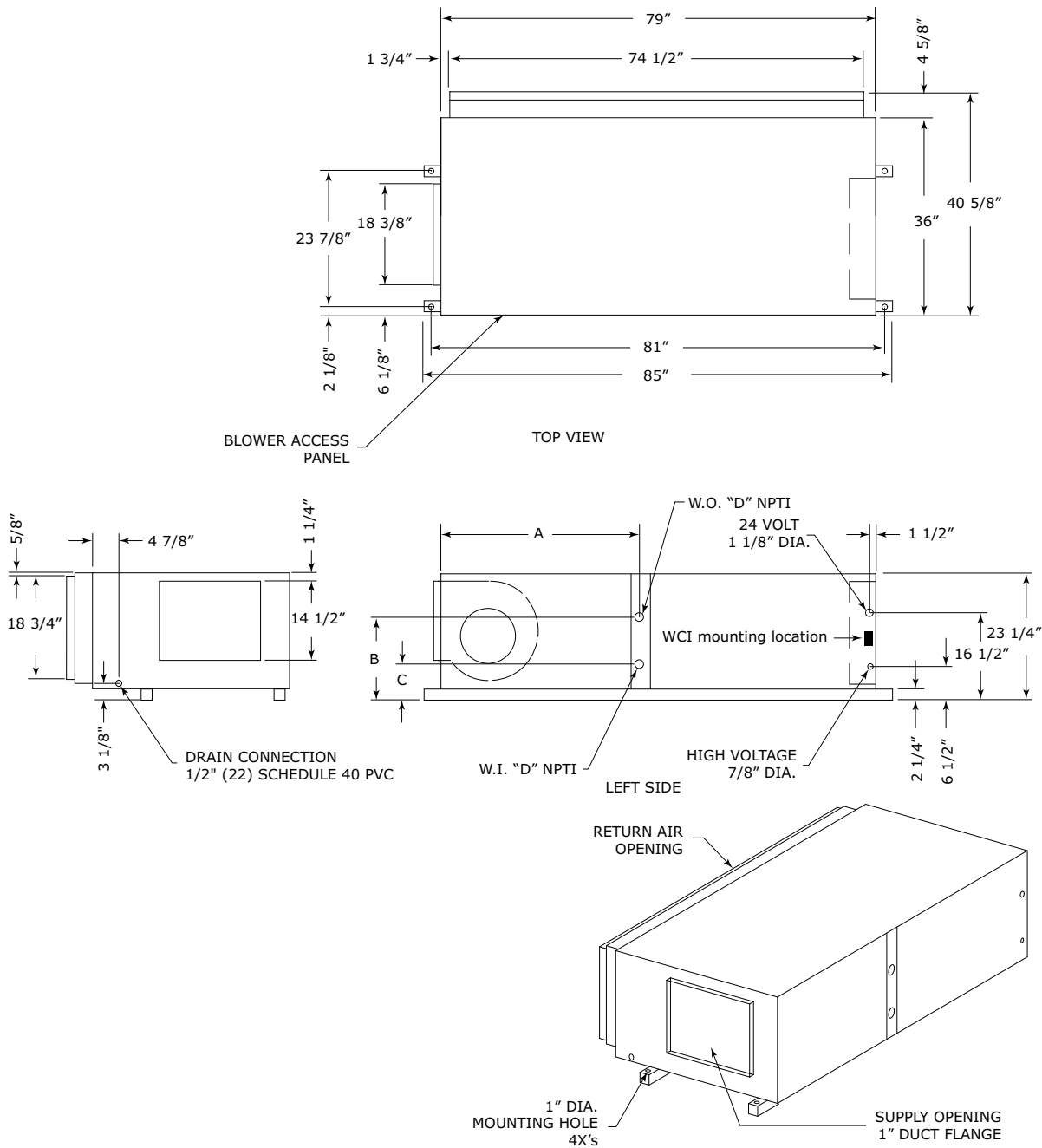
| Cab Size | GEVK    | Width | Depth | Height | Duct Collar | Duct Collar Location |      | Blower Opening |       | Hi Volt | Nominal Filter Size | W.I. NPTI | W.O. NPTI | Drain NPTI |
|----------|---------|-------|-------|--------|-------------|----------------------|------|----------------|-------|---------|---------------------|-----------|-----------|------------|
|          |         | A     | B     | C      | D           | E                    | F    | H              | J     | K       |                     |           |           |            |
| A        | 006-012 | 19.00 | 19.00 | 30.00  | 11.50       | 3.50                 | 1.00 | 7.88           | 7.63  | 12.25   | 14 x 16             | 0.50      | 0.50      | 0.75       |
| B        | 015,018 | 21.50 | 21.50 | 34.00  | 13.50       | 3.25                 | 1.00 | 10.13          | 9.38  | 14.25   | 16 x 19             | 0.50      | 0.50      | 0.75       |
| C        | 024,030 | 21.50 | 23.00 | 36.00  | 13.50       | 3.88                 | 1.00 | 10.50          | 11.25 | 15.25   | 17 x 20             | 0.75      | 0.75      | 0.75       |
| D        | 036,042 | 21.50 | 26.00 | 38.00  | 13.50       | 3.50                 | 1.00 | 11.75          | 11.25 | 16.25   | 18 x 23             | 0.75      | 0.75      | 0.75       |
| E        | 048,060 | 24.00 | 32.50 | 42.00  | 16.50       | 3.63                 | 1.00 | 13.88          | 13.50 | 18.25   | 20 x 30             | 1         | 1         | 0.75       |

**Note:** Units in a free return application will require more than a 1-in. clearance to provide proper air flow to the unit's air-to-refrigerant coil.

[illegible]

| GEH (60 Hz) | GEH (50 Hz) | A          | B          | C         | D         |
|-------------|-------------|------------|------------|-----------|-----------|
| 72          | —           | 36-1/4 in. | 15-5/8 in. | 6-5/8 in. | 1-1/4 in. |
| 90          | 72          | 36-1/8 in. | 12-3/4 in. | 6-3/4 in. | 1-1/4 in. |
| 120         | 90          | 36-1/8 in. | 13 in.     | 7-1/4 in. | 1-1/2 in. |

**Figure 56. Right return/back supply - GEHK 6 to 10 tons (60 Hz); GEHK 6 to 7.5 tons (50 Hz)**



**Table 169. Dimensional data right return/back supply - GEHK 6 to 10 tons (60 Hz); GEHK 6 to 7.5 tons (50 Hz)**

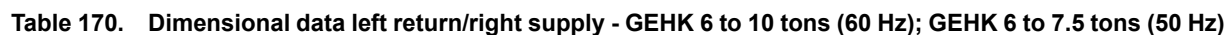
| GEH (60 Hz) | GEH (50 Hz) | A          | B          | C         | D         |
|-------------|-------------|------------|------------|-----------|-----------|
| 72          | —           | 36-1/4 in. | 15-5/8 in. | 6-5/8 in. | 1-1/4 in. |
| 90          | 72          | 36-1/8 in. | 12-3/4 in. | 6-3/4 in. | 1-1/4 in. |
| 120         | 90          | 36-1/8 in. | 13 in.     | 7-1/4 in. | 1-1/2 in. |

TOP VIEW

Dimensions and Mounting Points:

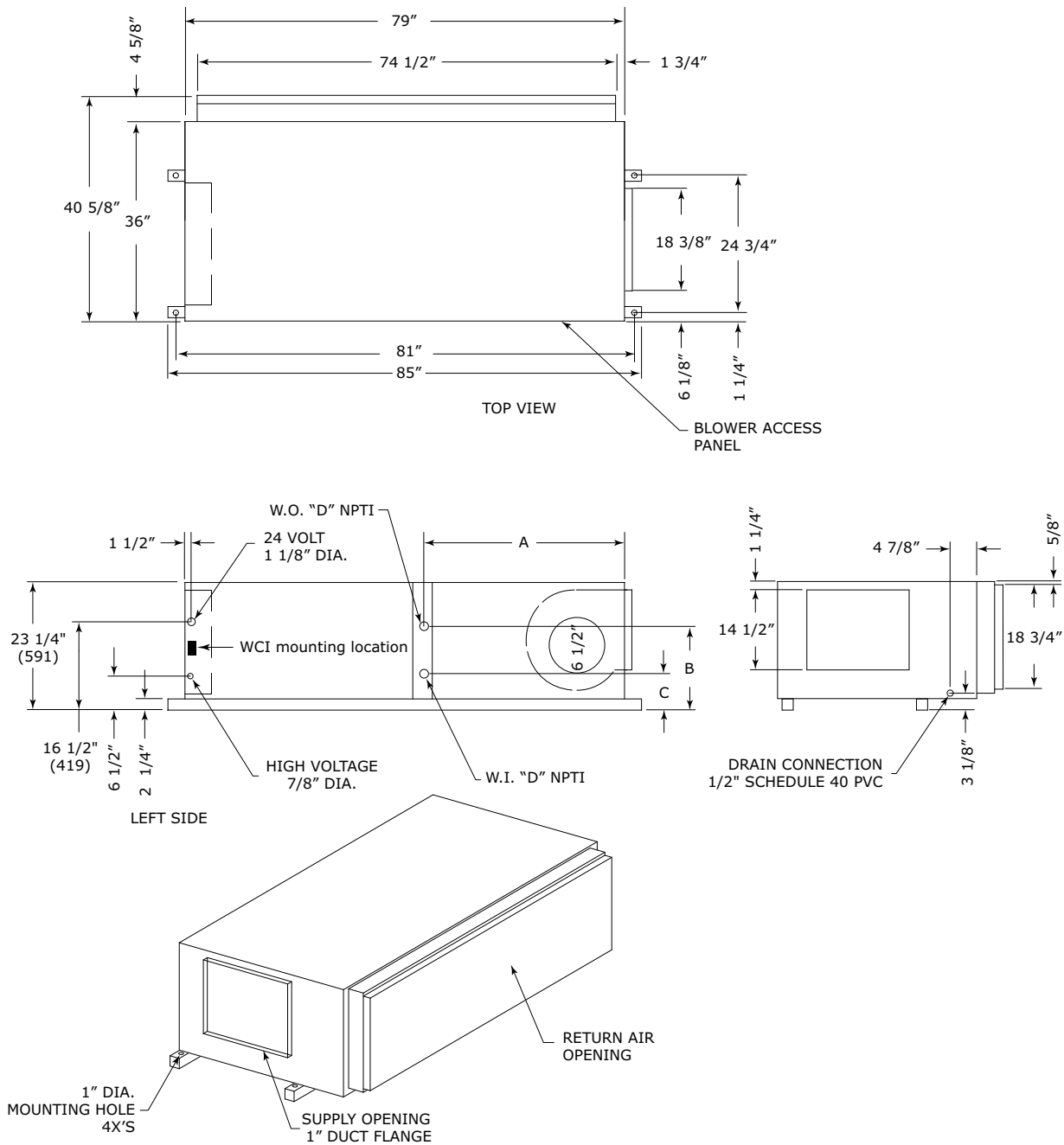
- Overall width: 85"
- Overall height: 40 5/8"
- Mounting hole spacing (horizontal): 79"
- Mounting hole spacing (vertical): 36"
- Mounting hole diameter: 1 1/4"
- Mounting hole offset from edge: 1 3/4"
- Mounting hole offset from center: 7 5/8"
- Mounting hole offset from center: 18 3/8"
- Mounting hole offset from center: 24 3/4"

BLOWER ACCESS PANEL



| GEH (60 Hz) | GEH (50 Hz) | A          | B          | C         | D         |
|-------------|-------------|------------|------------|-----------|-----------|
| 72          | —           | 36-1/8 in. | 17 in.     | 8 in.     | 1-1/4 in. |
| 90          | 72          | 36-1/8 in. | 13-3/4 in. | 7-3/4 in. | 1-1/4 in. |
| 120         | 90          | 36-1/8 in. | 13 in.     | 7-1/4 in. | 1-1/2 in. |

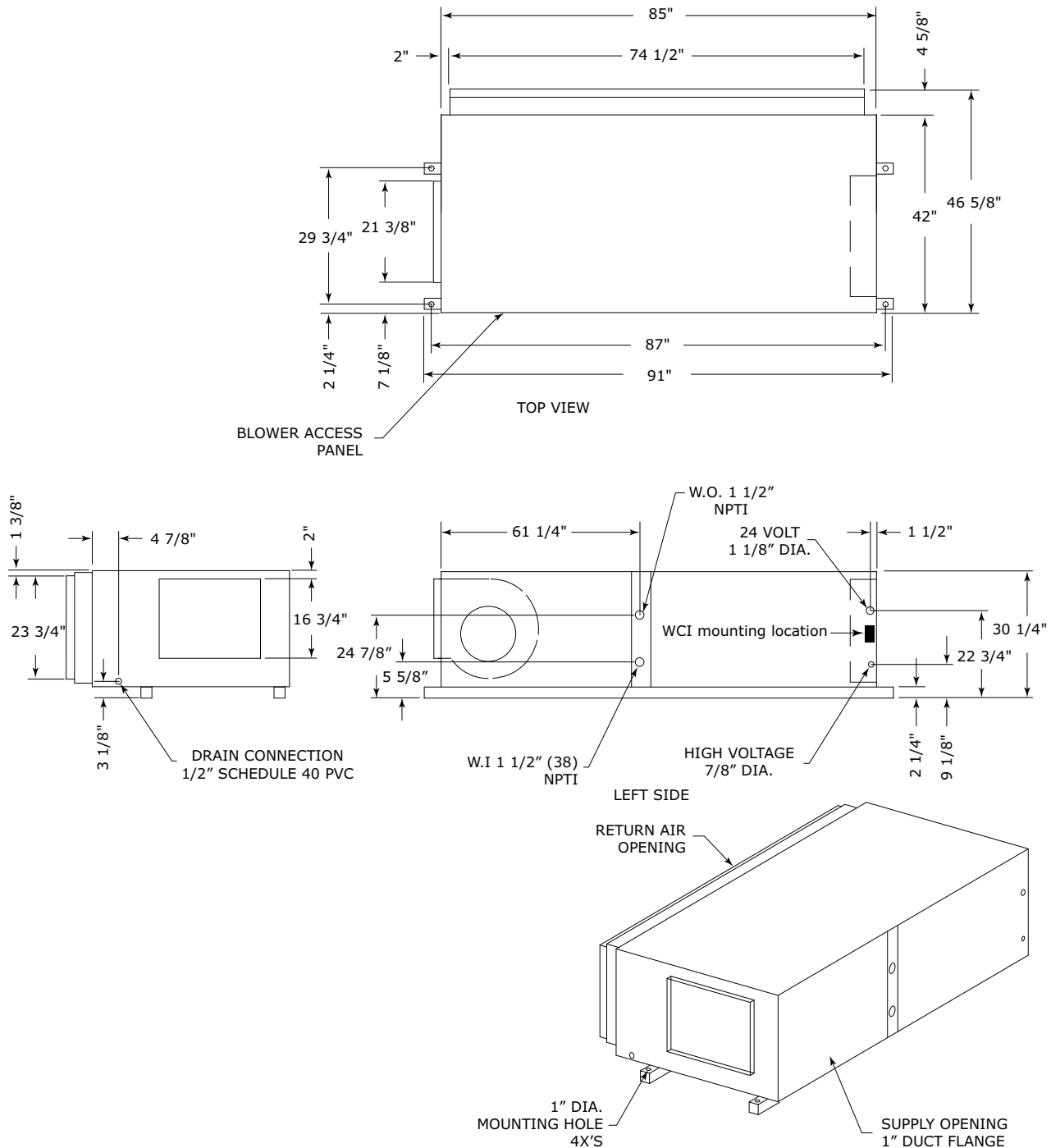
**Figure 58. Left return/back supply GEHK 6 to 10 tons (60 Hz); GEHK 6 to 7.5 tons (50 Hz)**



**Table 171. Dimensional data left return/back supply GEHK 6 to 10 tons (60 Hz); GEHK 6 to 7.5 tons (50 Hz)**

| GEH (60 Hz) | GEH (50 Hz) | A          | B          | C         | D         |
|-------------|-------------|------------|------------|-----------|-----------|
| 72          | —           | 36-1/8 in. | 17 in.     | 8 in.     | 1-1/4 in. |
| 90          | 72          | 36-1/8 in. | 13-3/4 in. | 7-3/4 in. | 1-1/4 in. |
| 120         | 90          | 36-1/8 in. | 13 in.     | 7-1/4 in. | 1-1/2 in. |

Figure 59. Right return/back supply GEHK 12.5 to 15 tons (60 Hz); GEHK 10 to 12.5 tons (50 Hz)





**TOP VIEW**

Dimensions: 85", 74 1/2", 2", 46 5/8", 42", 29 3/4", 2 1/4", 7 1/8", 21 3/8", 87", 91".

Label: BLOWER ACCESS PANEL

**LEFT SIDE**

Dimensions: 30 1/4", 22 3/4", 9 1/8", 2 1/4", 2 1/8", 39 1/2", 2", 24 7/8", 5 5/8".

Labels: W.O. 1 1/2" NPTI, 24 VOLT 1 1/8" DIA., WCI mounting location, HIGH VOLTAGE 7/8" DIA., W.I. 1 1/2" NPTI.

**BACK SIDE**

Dimensions: 1", 4 7/8", 16 3/4", 23 3/4", 1 3/8", 3 1/8".

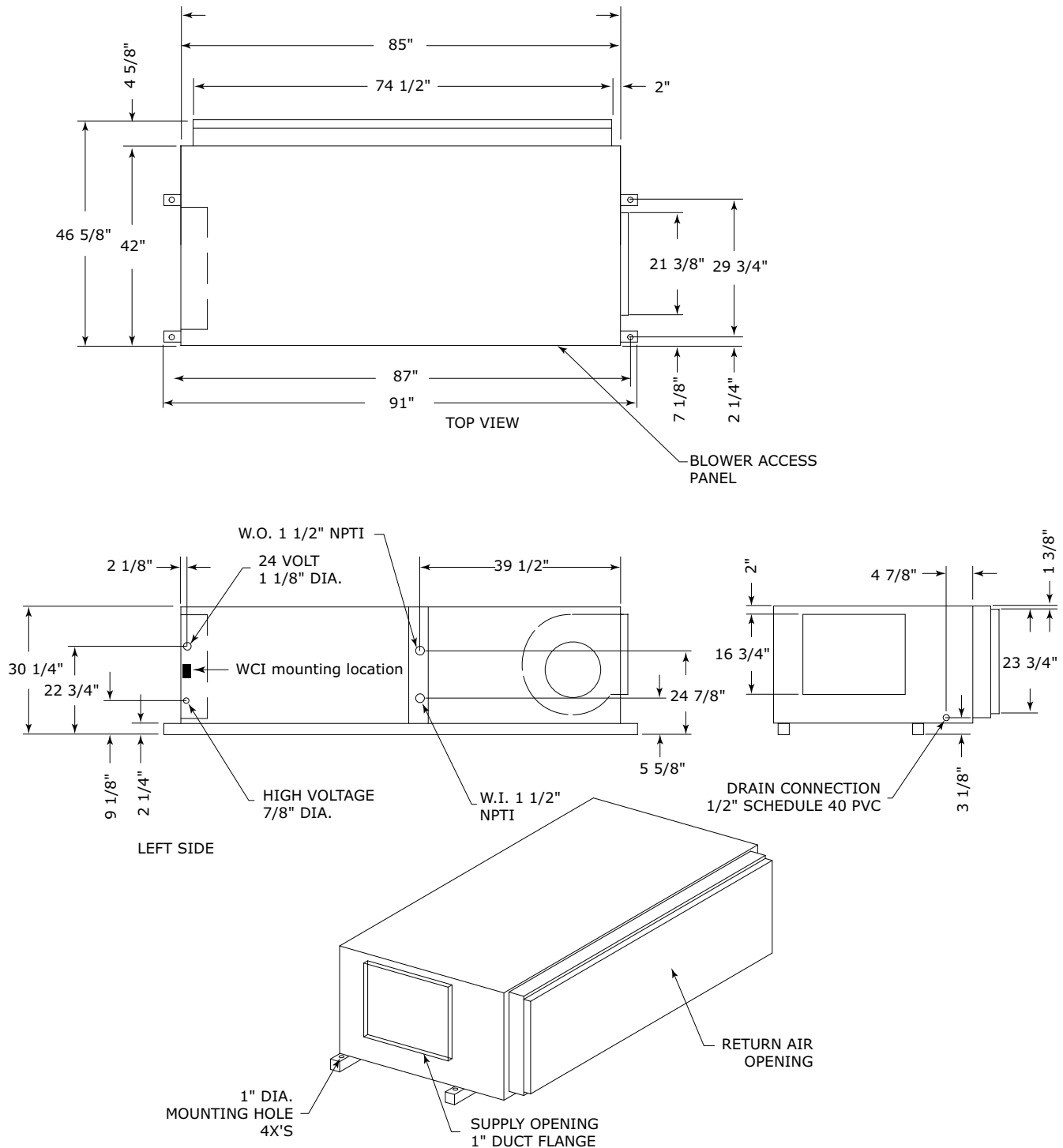
Label: DRAIN CONNECTION 1/2" SCHEDULE 40 PVC

**3D View**

Labels: RETURN AIR OPENING, SUPPLY OPENING 1" DUCT FLANGE, 1" DIA. MOUNTING HOLE 4X'S

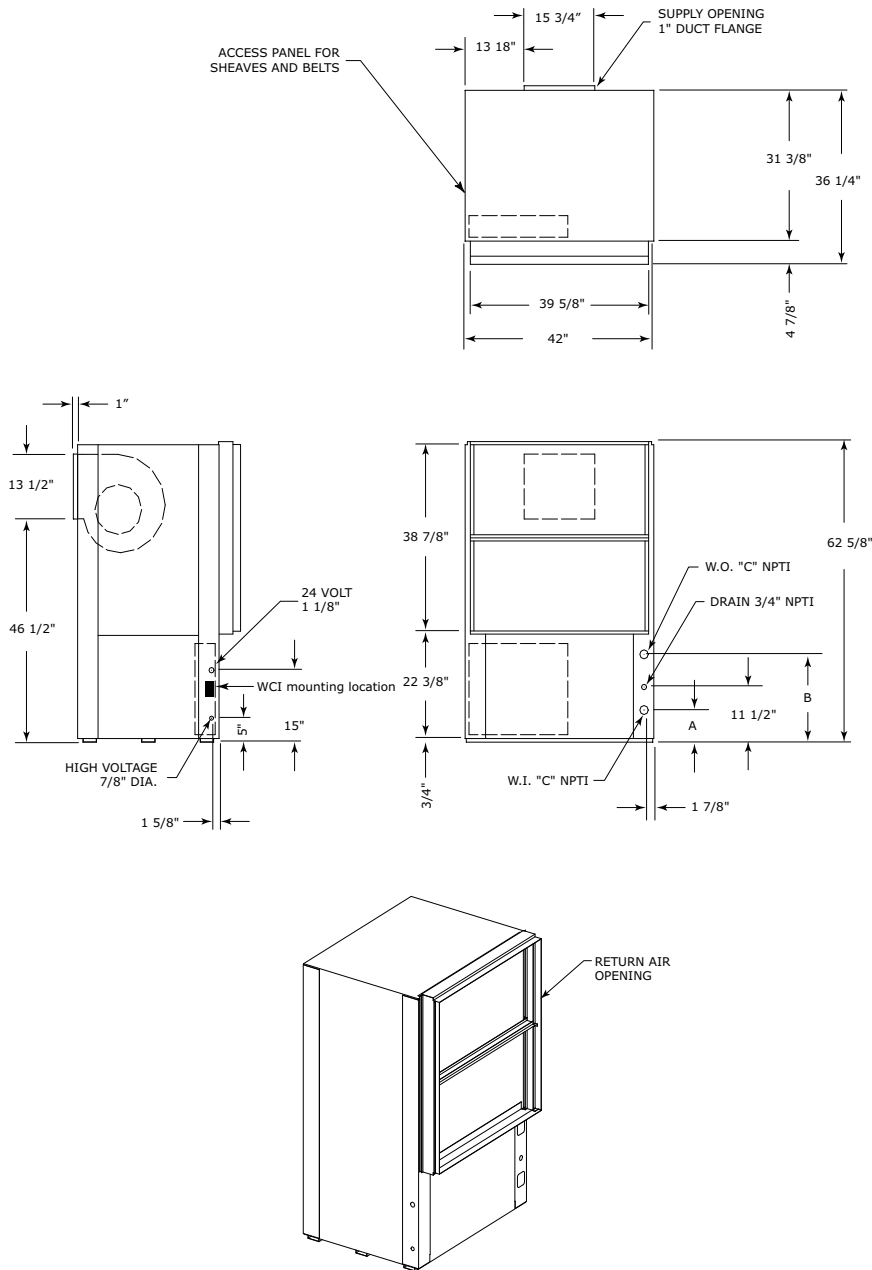


Figure 61. Left return/back supply GEHK 12.5 to 15 tons (60 Hz); GEHK 10 to 12.5 tons (50 Hz)



## Unit Dimensions

**Figure 62. Front return/back supply<sup>25</sup> GEVK 6 to 10 tons (60 Hz); 6 and 7.5 tons (50 Hz)**

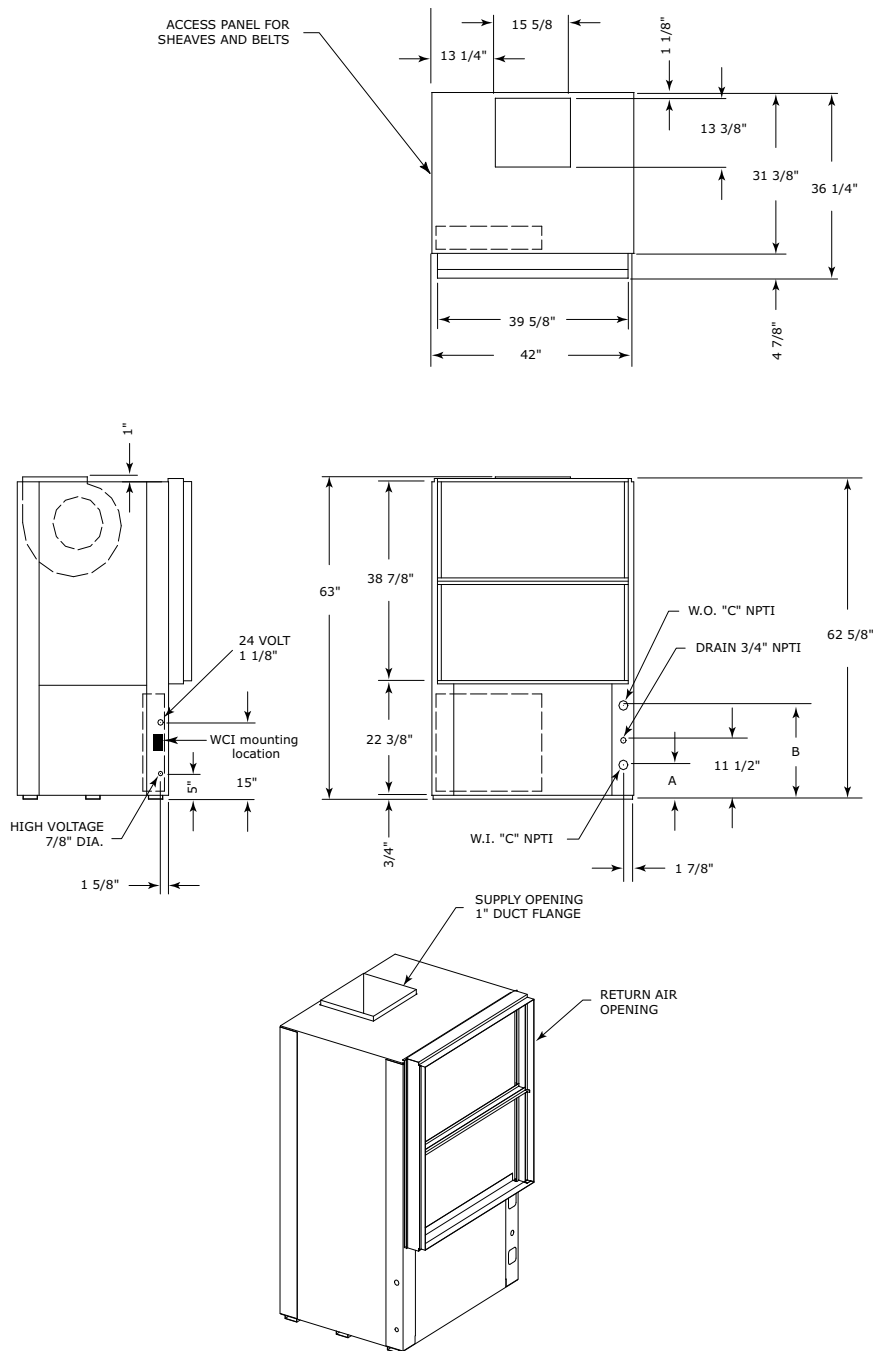


**Table 172. Dimensional data front return/back supply GEVK 6 to 10 tons (60 Hz); 6 and 7.5 tons (50 Hz)**

| Unit (60 Hz) | Unit (50 Hz) | A         | B          | C         |
|--------------|--------------|-----------|------------|-----------|
| 6.0 tons     | —            | 6-5/8 in. | 18-3/8 in. | 1-1/4 in. |
| 7.5 tons     | 6.0 tons     | 6-5/8 in. | 18-3/8 in. | 1-1/4 in. |
| 10.0 tons    | 7.5 tons     | 6-1/2 in. | 18-1/2 in. | 1-1/2 in. |

<sup>25</sup> NEC requires that the GEV072-300 front return must be a non-ducted return.

**Figure 63. Front return/top supply<sup>26</sup> GEVK 6 to 10 tons (60 Hz); 6 and 7.5 tons (50 Hz)**



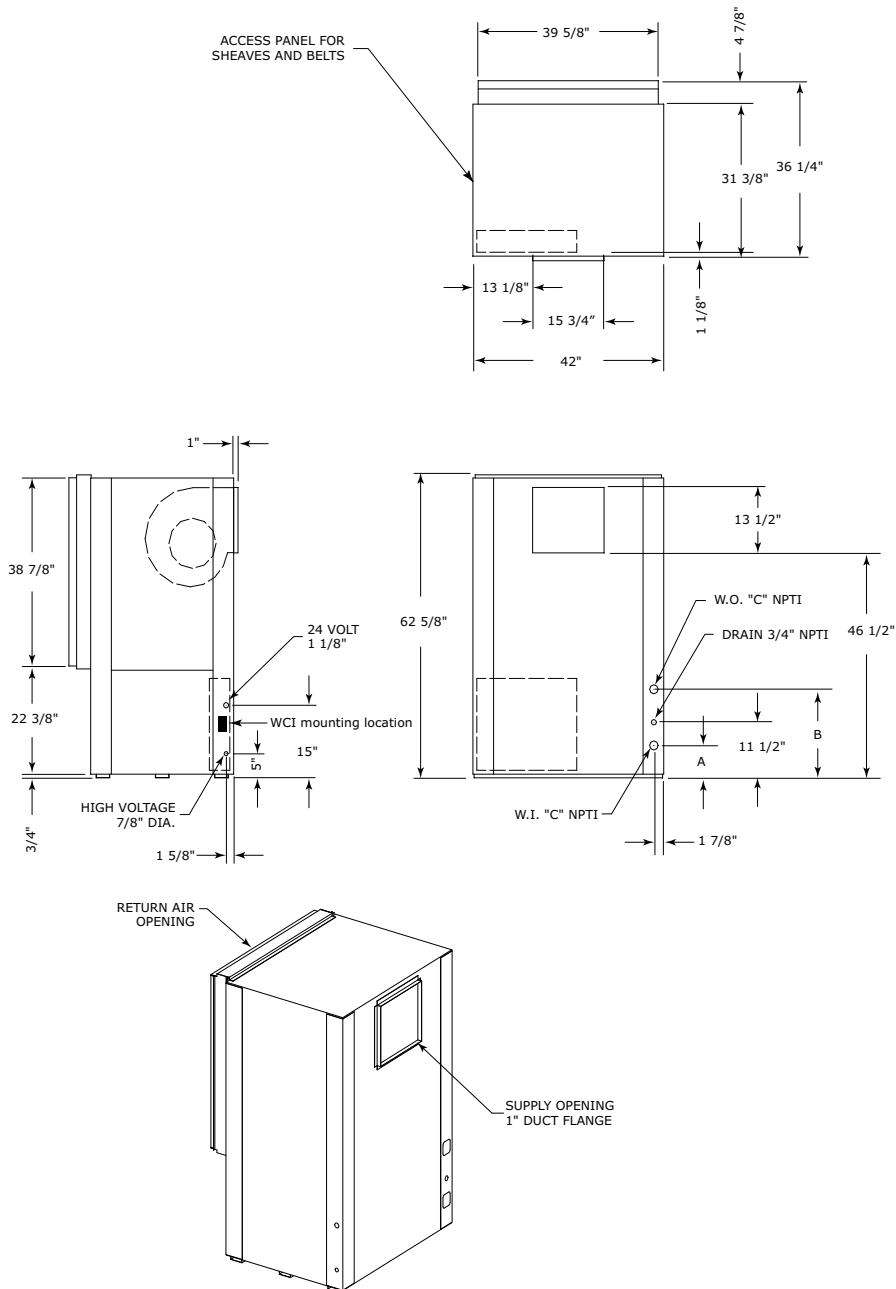
**Table 173. Dimensional data front return/top supply GEVK 6 to 10 tons (60 Hz); 6 and 7.5 tons (50 Hz)**

| Unit (60 Hz) | Unit (50 Hz) | A         | B          | C         |
|--------------|--------------|-----------|------------|-----------|
| 6.0 tons     | —            | 6-5/8 in. | 18-3/8 in. | 1-1/4 in. |
| 7.5 tons     | 6.0 tons     | 6-5/8 in. | 18-3/8 in. | 1-1/4 in. |
| 10.0 tons    | 7.5 tons     | 6-1/2 in. | 18-1/2 in. | 1-1/2 in. |

<sup>26</sup> NEC requires that the GEV072-300 front return must be a non-ducted return.

## Unit Dimensions

**Figure 64. Back return/front supply<sup>27</sup> GEVK 6 to 10 tons (60 Hz); 6 and 7.5 tons (50 Hz)**

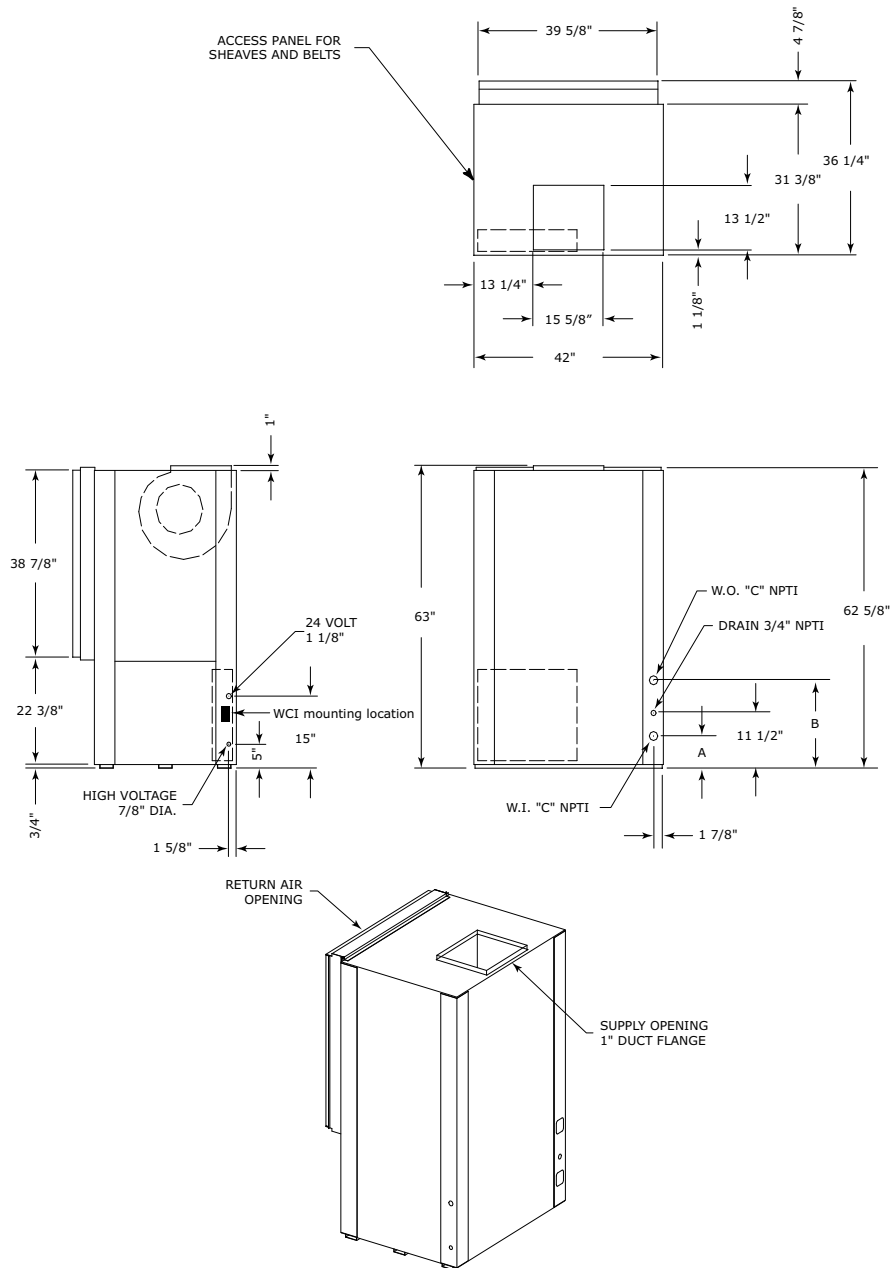


**Table 174. Dimensional data back return/front supply GEVK 6 to 10 tons (60 Hz); 6 and 7.5 tons (50 Hz)**

| Unit (60 Hz) | Unit (50 Hz) | A         | B          | C         |
|--------------|--------------|-----------|------------|-----------|
| 6.0 tons     | —            | 6-5/8 in. | 18-3/8 in. | 1-1/4 in. |
| 7.5 tons     | 6.0 tons     | 6-5/8 in. | 18-3/8 in. | 1-1/4 in. |
| 10.0 tons    | 7.5 tons     | 6-1/2 in. | 18-1/2 in. | 1-1/2 in. |

<sup>27</sup> NEC requires that the GEV072-300 front return must be a non-ducted return.

**Figure 65. Back return/top supply<sup>28</sup> GEVK 6 to 10 tons (60 Hz); 6 and 7.5 tons (50 Hz)**



**Table 175. Dimensional data back return/top supply GEVK 6 to 10 tons (60 Hz); 6 and 7.5 tons (50 Hz)**

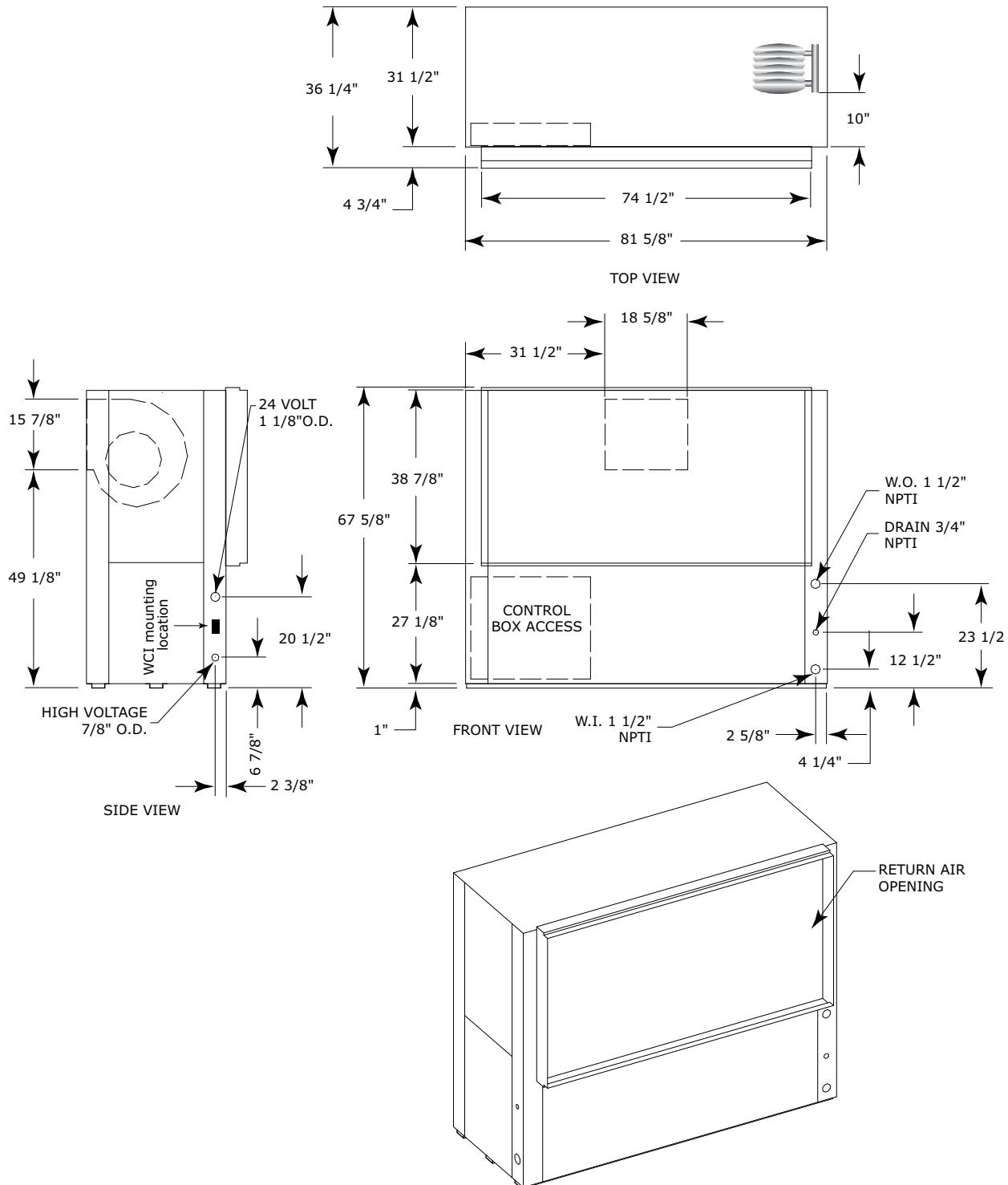
| Unit (60 Hz) | Unit (50 Hz) | A         | B          | C         |
|--------------|--------------|-----------|------------|-----------|
| 6.0 tons     | —            | 6-5/8 in. | 18-3/8 in. | 1-1/4 in. |
| 7.5 tons     | 6.0 tons     | 6-5/8 in. | 18-3/8 in. | 1-1/4 in. |
| 10.0 tons    | 7.5 tons     | 6-1/2 in. | 18-1/2 in. | 1-1/2 in. |

<sup>28</sup> NEC requires that the GEV072-300 front return must be a non-ducted return.



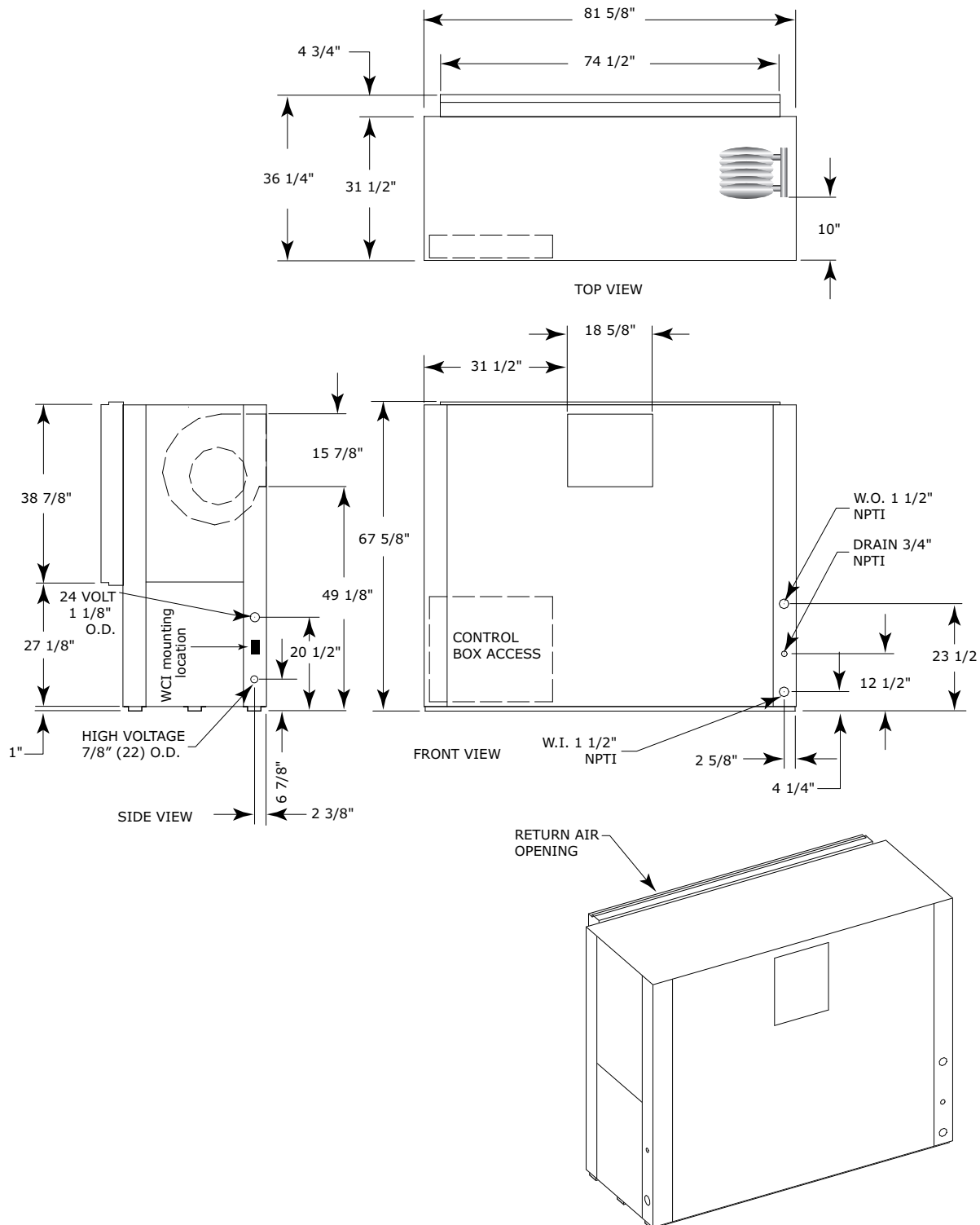
## Unit Dimensions

Figure 66. Front return/back supply<sup>29</sup> GEVK 12.5 to 15 tons (60 Hz); GEVK 10 and 12.5 tons (50 Hz)



<sup>29</sup> NEC requires that the GEV072-300 front return must be a non-ducted return.

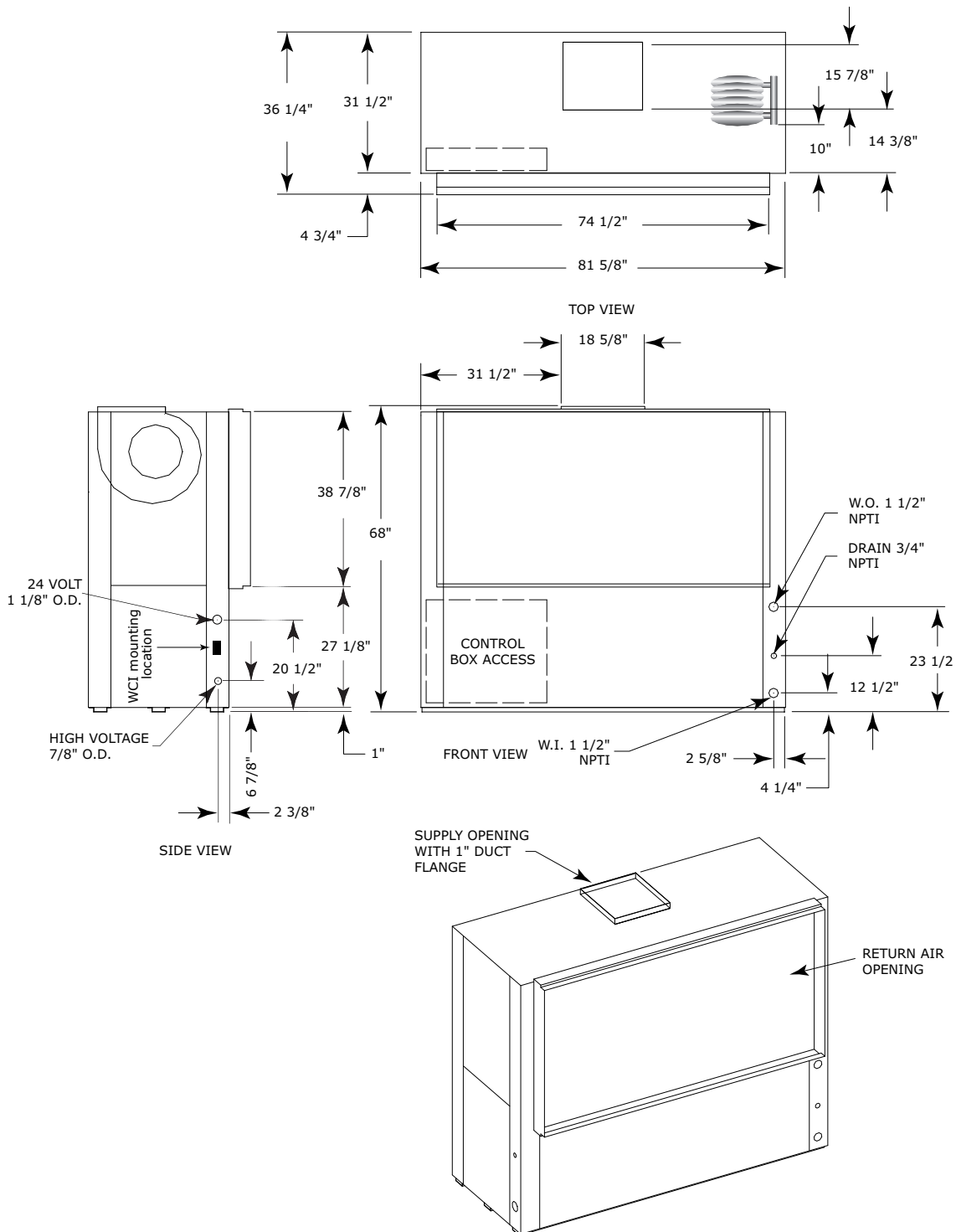
Figure 67. Back return/front supply GEVK 12.5 to 15 tons (60 Hz); GEVK 10 and 12.5 tons (50 Hz)





## Unit Dimensions

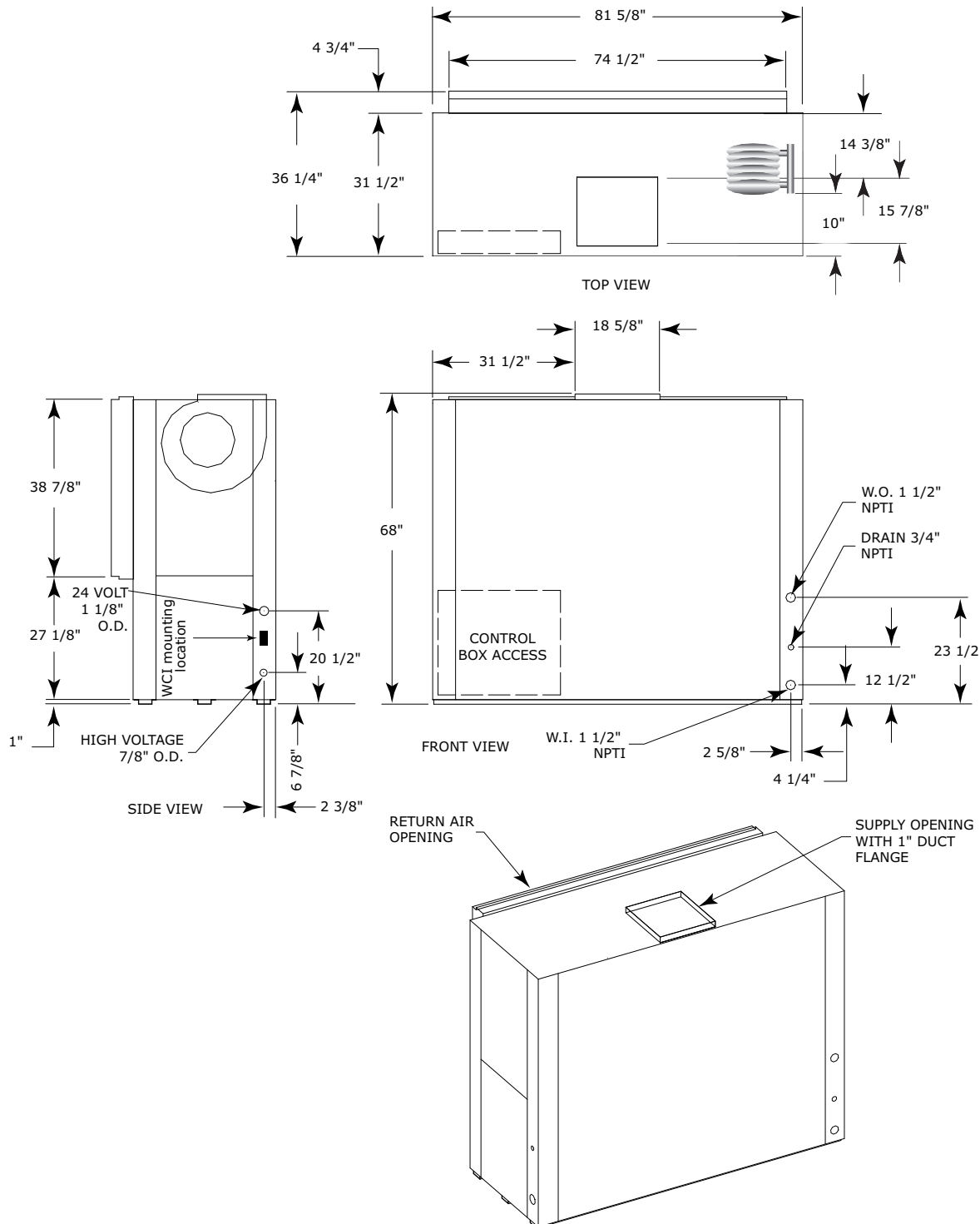
Figure 68. Front return/top supply<sup>30</sup> GEVK 12.5 to 15 tons (60 Hz); GEVK 10 and 12.5 tons (50 Hz)



<sup>30</sup> NEC requires that the GEV072-300 front return must be a non-ducted return.

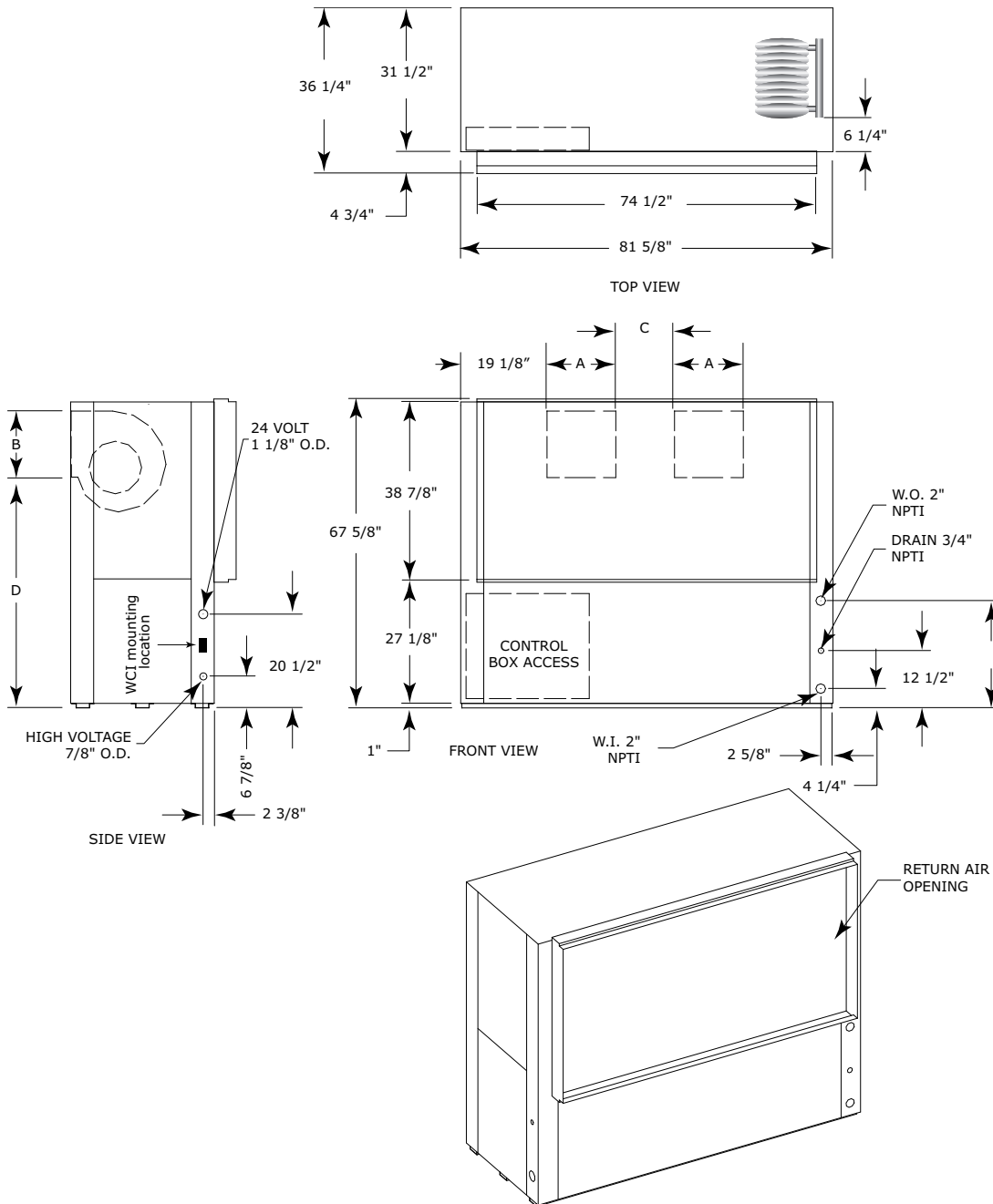


**Figure 69. Back return/top supply<sup>31</sup> GEVK 12.5 to 15 tons (60 Hz); GEVK 10 and 12.5 tons (50 Hz)**



<sup>31</sup>. NEC requires that the GEV072-300 front return must be a non-ducted return.

**Figure 70. Front return/back supply<sup>32</sup> GEVK 20 and 25 tons (60 Hz); GEVK 15 and 20 tons (50 Hz)**

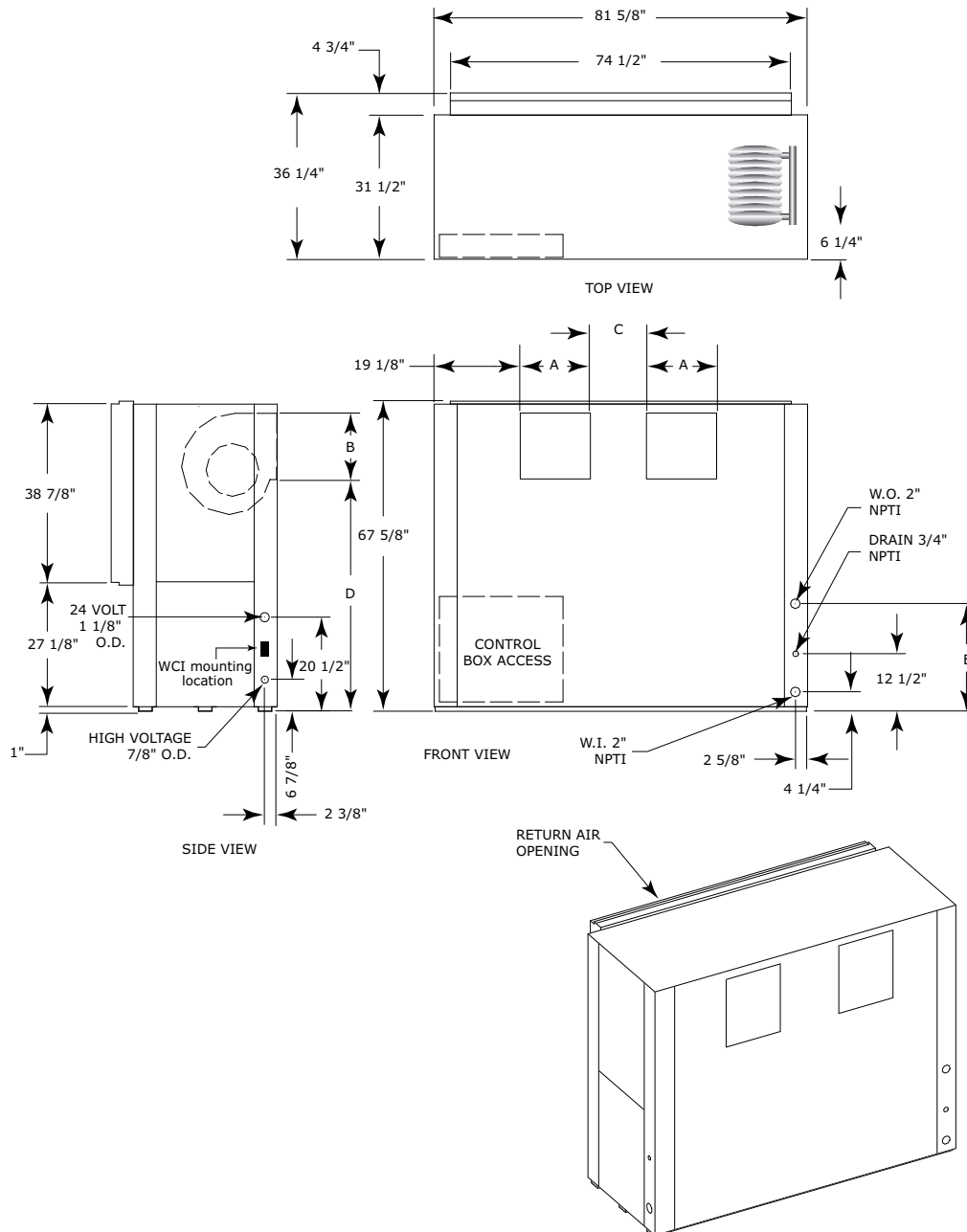


**Table 176. Dimensional data front return/back supply GEVK 20 and 25 tons (60 Hz); GEVK 15 and 20 tons (50 Hz)**

| Unit (60 Hz)        | Unit (50 Hz)        | A          | B          | C          | D          | E          |
|---------------------|---------------------|------------|------------|------------|------------|------------|
| 20 tons             | 15 tons             | 15-5/8 in. | 13-1/2 in. | 12 in.     | 51-5/8 in. | 20-7/8 in. |
| 25 tons Std Static  | 20 tons Std Static  | 14-3/4 in. | 15-7/8 in. | 13-7/8 in. | 49-1/8 in. | 23-1/2 in. |
| 25 tons High Static | 20 tons High Static | 15-5/8 in. | 13-1/2 in. | 12 in.     | 51-5/8 in. | 23-1/2 in. |

<sup>32</sup> NEC requires that the GEV072-300 front return must be a non-ducted return.

**Figure 71. Back return/front supply<sup>33</sup> GEVK 20 and 25 tons (60 Hz); GEVK 15 and 20 tons (50 Hz)**

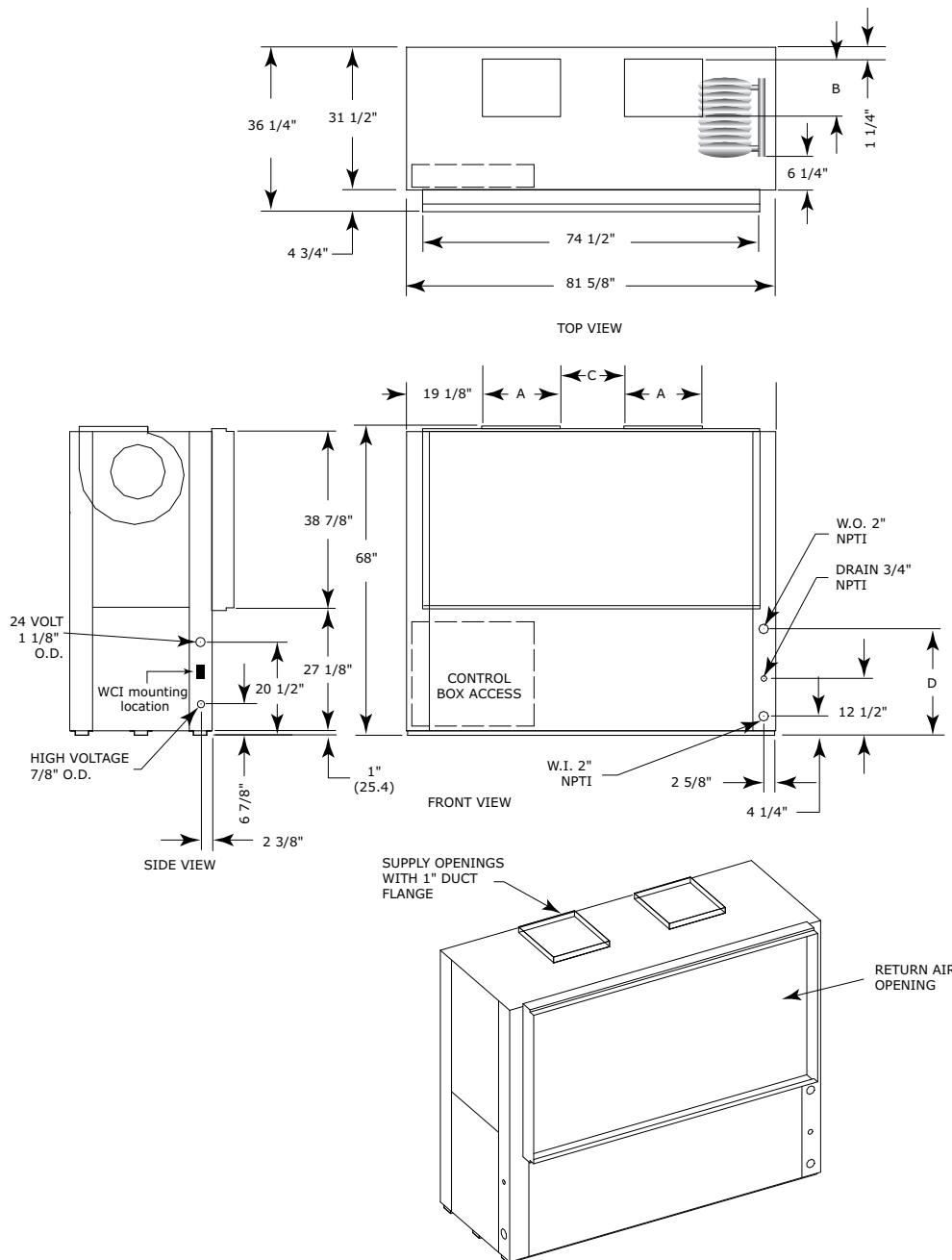


**Table 177. Dimensional data back return/front supply GEVK 20 and 25 tons (60 Hz); GEVK 15 and 20 tons (50 Hz)**

| Unit (60 Hz)        | Unit (50 Hz)        | A          | B          | C          | D          | E          |
|---------------------|---------------------|------------|------------|------------|------------|------------|
| 20 tons             | 15 tons             | 15-5/8 in. | 13-1/2 in. | 12 in.     | 51-5/8 in. | 20-7/8 in. |
| 25 tons Std Static  | 20 tons Std Static  | 14-3/4 in. | 15-7/8 in. | 13-7/8 in. | 49-1/8 in. | 23-1/2 in. |
| 25 tons High Static | 20 tons High Static | 15-5/8 in. | 13-1/2 in. | 12 in.     | 51-5/8 in. | 23-1/2 in. |

<sup>33</sup> NEC requires that the GEV072-300 front return must be a non-ducted return.

**Figure 72. Front return/top supply<sup>34</sup> GEVK 20 and 25 tons (60 Hz); GEVK 15 and 20 tons (50 Hz)**

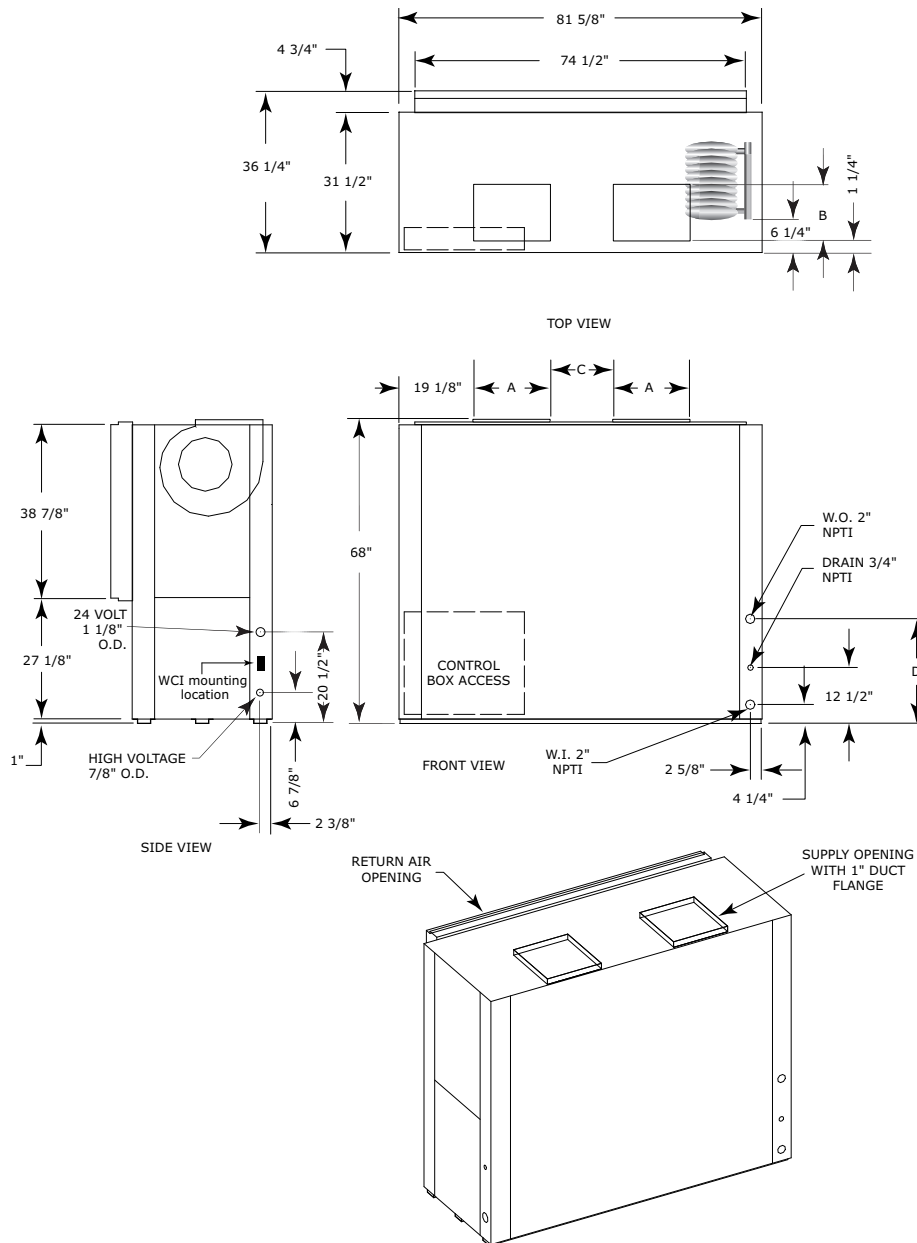


**Table 178. Dimensional data front return/top supply GEVK 20 and 25 tons (60 Hz); GEVK 15 and 20 tons (50 Hz)**

| Unit (60 Hz)        | Unit (50 Hz)        | A          | B          | C          | D          |
|---------------------|---------------------|------------|------------|------------|------------|
| 20 tons             | 15 tons             | 15-5/8 in. | 13-1/2 in. | 12 in.     | 20-7/8 in. |
| 25 tons Std Static  | 20 tons Std Static  | 14-3/4 in. | 15-7/8 in. | 13-7/8 in. | 23-1/2 in. |
| 25 tons High Static | 20 tons High Static | 15-5/8 in. | 13-1/2 in. | 12 in.     | 23-1/2 in. |

<sup>34</sup> NEC requires that the GEV072-300 front return must be a non-ducted return.

**Figure 73. Back return/top supply<sup>35</sup> GEVK 20 and 25 tons (60 Hz); GEVK 15 and 20 tons (50 Hz)**



**Table 179. Dimensional data back return/top supply GEVK 20 and 25 tons (240 and 300) 60 Hz; GEVK 15 and 20 tons (180 and 240) 50 Hz**

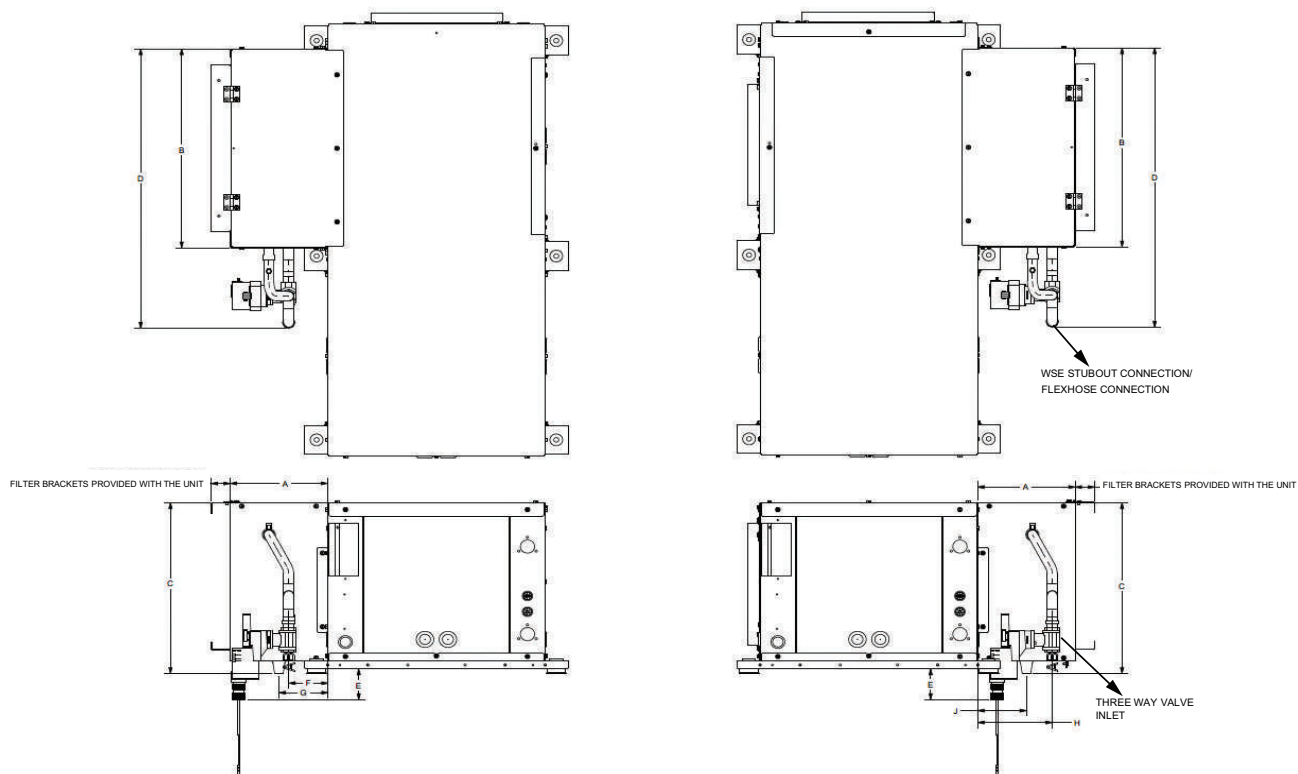
| Unit (60 Hz)        | Unit (50 Hz)        | A          | B          | C          | D          |
|---------------------|---------------------|------------|------------|------------|------------|
| 20 tons             | 15 tons             | 15-5/8 in. | 13-1/2 in. | 12 in.     | 20-7/8 in. |
| 25 tons Std Static  | 20 tons Std Static  | 14-3/4 in. | 15-7/8 in. | 13-7/8 in. | 23-1/2 in. |
| 25 tons High Static | 20 tons High Static | 15-5/8 in. | 13-1/2 in. | 12 in.     | 23-1/2 in. |

<sup>35</sup> NEC requires GEV072-300 front return must be non-ducted return.



## Unit Dimensions

**Figure 74. Waterside economizer<sup>36</sup> (GEHK)**



**Table 180. Dimensional data waterside economizer (GEHK)**

| Unit        | WSE Dimensions |       |        |                    |                        |                             |                           |                             |                           | Pipe Size                |                                                       |
|-------------|----------------|-------|--------|--------------------|------------------------|-----------------------------|---------------------------|-----------------------------|---------------------------|--------------------------|-------------------------------------------------------|
|             | Width          | Depth | Height | Depth W/<br>Piping | Cable<br>Stick<br>Down | Stubout<br>Location<br>(LH) | Drain<br>Location<br>(LH) | Stubout<br>Location<br>(RH) | Drain<br>Location<br>(RH) | Three Way<br>Valve Inlet | WSE Stubout<br>Connection/<br>Flex Hose<br>Connection |
|             | A              | B     | C      | D                  | E                      | F                           | G                         | H                           | J                         | NPTI                     | NPTI                                                  |
| GEHK006-012 | 8.5            | 19.0  | 16.25  | 26.50              | 3.96                   | 3.40                        | 4.25                      | 6.53                        | 4.25                      | 0.50                     | 0.50                                                  |
| GEHK015-018 |                | 21.5  | 18.25  | 29.00              |                        |                             |                           |                             |                           | 0.50                     | 0.50                                                  |
| GEHK024-030 |                | 23.0  | 19.25  | 30.50              | 3.70                   |                             |                           |                             |                           | 0.75                     | 0.75                                                  |
| GEHK036-042 |                | 26.0  | 20.25  | 33.50              | 3.96                   |                             |                           |                             |                           | 0.75                     | 0.75                                                  |
| GEHK048-060 |                | 32.5  | 22.25  | 40.80              | 3.46                   |                             |                           | 6.40                        | 4.21                      | 1                        | 1                                                     |

<sup>36</sup> Waterside economizer installation requires field piping.

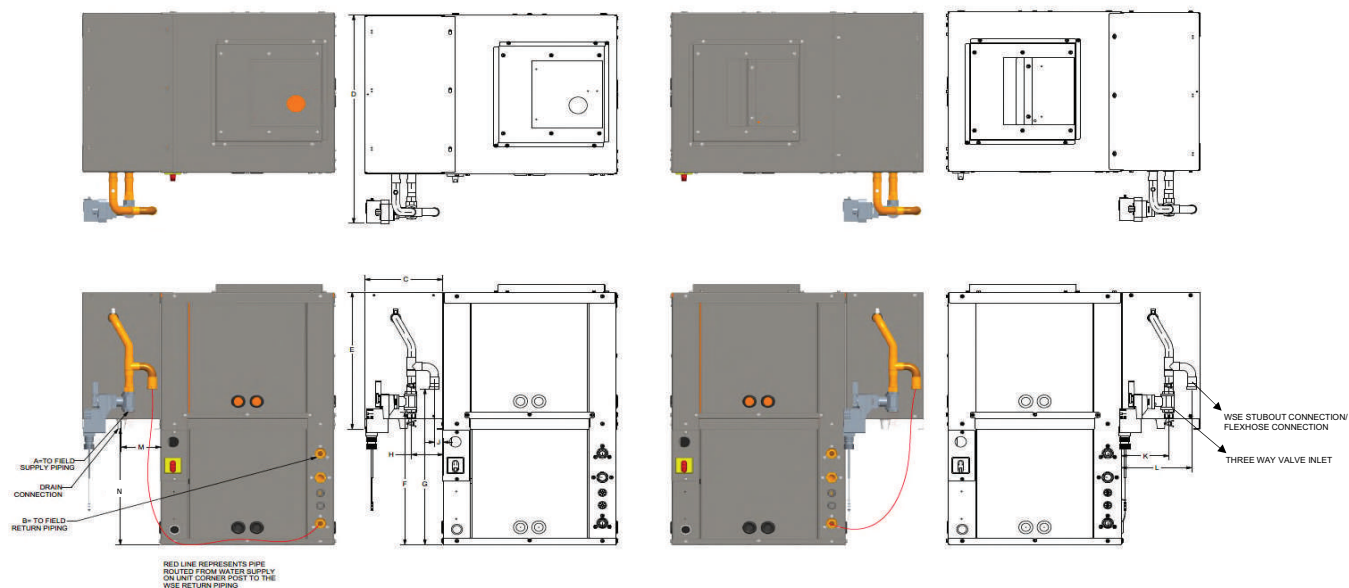
**Figure 75. Waterside economizer (GEVK)**



**Table 181. Dimensional data waterside economizer (GEVK)**

| Unit        | WSE Dimensions |              |               |
|-------------|----------------|--------------|---------------|
|             | A<br>(Width)   | B<br>(Depth) | C<br>(Height) |
| GEVK006-012 | 8.5            | 19.0         | 16.25         |
| GEVK015-018 |                | 21.5         | 18.25         |
| GEVK024-030 |                | 23.0         | 19.25         |
| GEVK036-042 |                | 26.0         | 20.25         |
| GEVK048-060 |                | 32.5         | 22.25         |

**Figure 76. Waterside economizer (GEVK)**

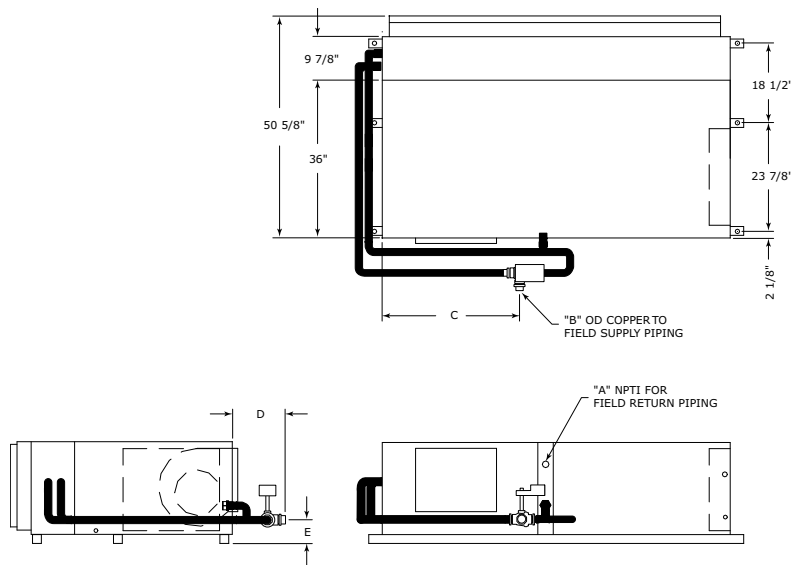


**Table 182. Dimensional data waterside economizer (GEVK)**

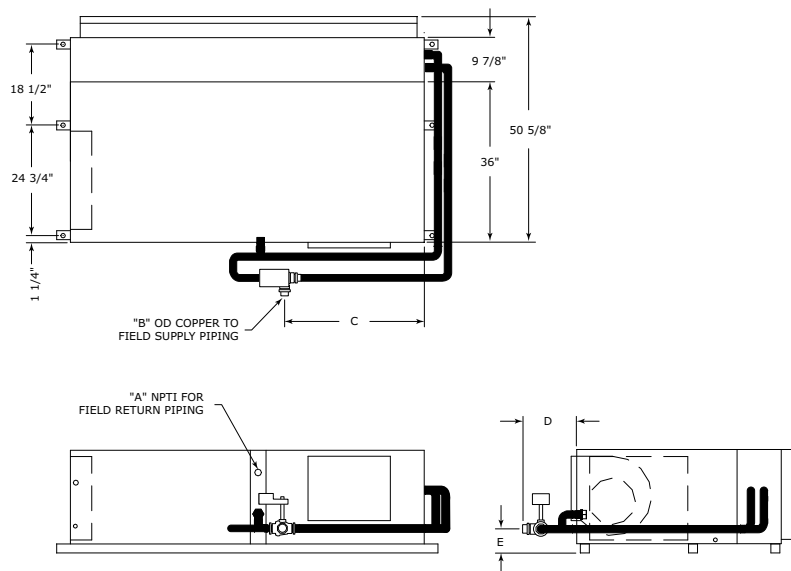
| Unit        | Pipe Size             |                                              | WSE Dimensions |       |        |        |        |       |       |       |       |       |        |
|-------------|-----------------------|----------------------------------------------|----------------|-------|--------|--------|--------|-------|-------|-------|-------|-------|--------|
|             | Three Way Valve Inlet | WSE Stubout Connection/ Flex Hose Connection | Width          | Depth | Height | Height | Height | Width | Width | Width | Width | Width | Height |
|             | NPTI                  | NPTI                                         | C              | D     | E      | F      | G      | H     | J     | K     | L     | M     | N      |
| GEVK006-012 | 0.50                  | 0.50                                         | 8.5            | 25.0  | 16.25  | 15.75  | 18.50  | 3.5   | 0.95  | 5.18  | 7.68  | 4.3   | 13.78  |
| GEVK015-018 | 0.50                  | 0.50                                         |                | 27.5  | 18.25  | 17.80  | 20.50  |       |       |       |       |       | 15.78  |
| GEVK024-030 | 0.75                  | 0.75                                         |                | 29.0  | 19.25  | 18.88  | 21.50  |       |       |       |       |       | 16.78  |
| GEVK036-042 | 0.75                  | 0.75                                         |                | 32.0  | 20.25  | 19.60  | 22.20  |       |       |       |       |       | 17.70  |
| GEVK048-060 | 1.00                  | 1.00                                         |                | 39.0  | 22.25  | 22.00  | 24.50  |       |       |       |       |       | 19.79  |



**Figure 77. GEHK 6 to 10 tons (60 Hz), GEHK 6 to 7.5 tons (50 Hz) - right return with waterside economizer<sup>37</sup>**



**Figure 78. GEHK 6 to 10 tons (60 Hz), GEHK 6 to 7.5 tons (50 Hz) - left return with waterside economizer<sup>37</sup>**



**Table 183. Dimensional data GEHK 6 to 10 tons (60 Hz), GEHK 6 to 7.5 tons (50 Hz), waterside economizer**

| GEH (60 Hz) | GEH (50 Hz) | A     | B     | C      | D      | E     | Hanging Weight | Shipping Weight |
|-------------|-------------|-------|-------|--------|--------|-------|----------------|-----------------|
| 72          | —           | 1-1/4 | 1-3/8 | 31     | 9-7/8  | 3-7/8 | 138 lbs        | 168 lbs         |
| 90          | 72          | 1-1/4 | 1-3/8 | 31     | 9-7/8  | 3-7/8 | 144 lbs        | 174 lbs         |
| 120         | 90          | 1-1/2 | 1-5/8 | 30-3/4 | 12-1/2 | 4-1/2 | 166 lbs        | 196 lbs         |

<sup>37</sup>. Field piping required on waterside economizer.



## Unit Dimensions

Figure 79. GEHK 12.5 to 15 tons (60 Hz), GEHK 10 to 12.5 tons (50 Hz), right return with waterside economizer<sup>38</sup>

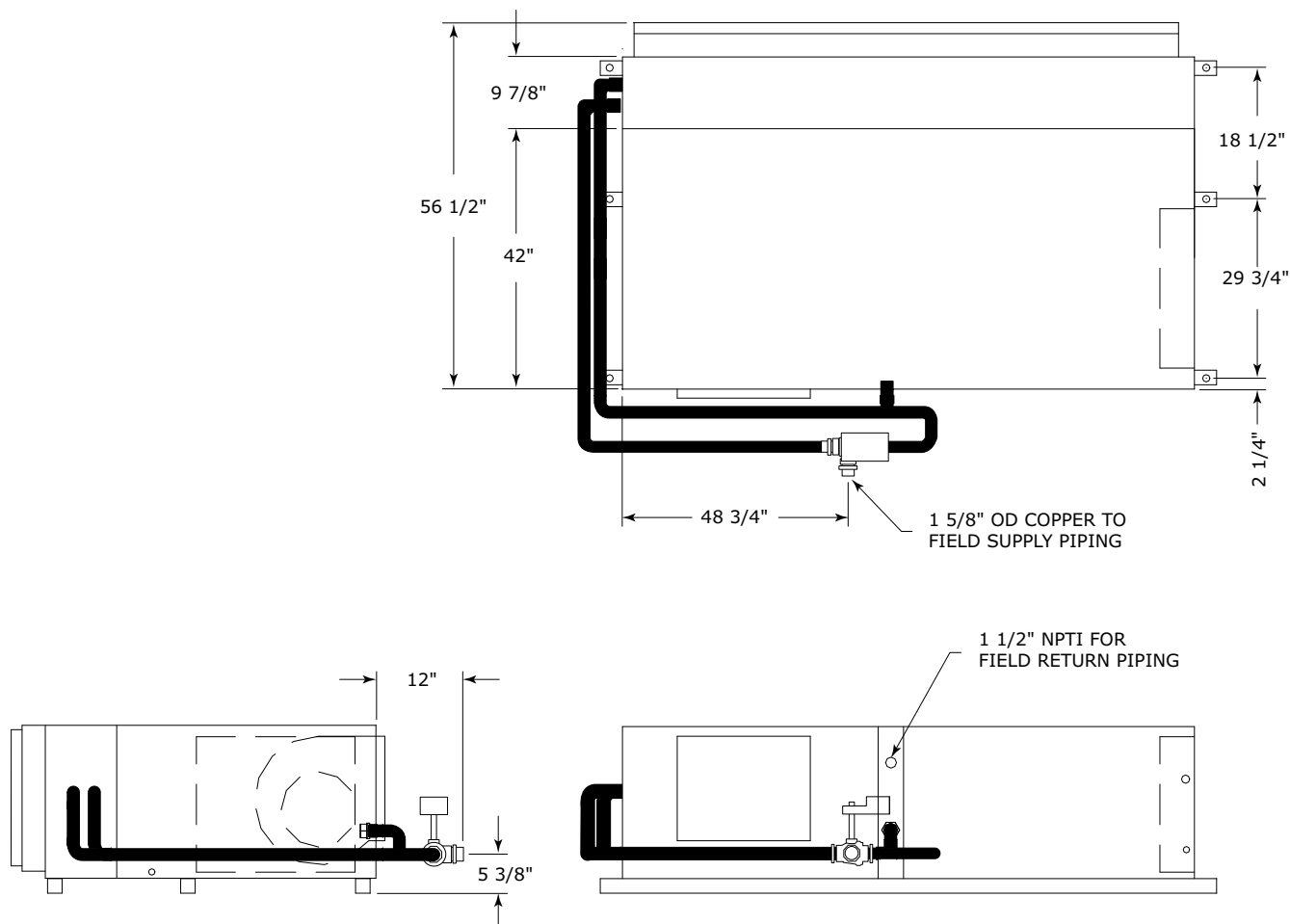
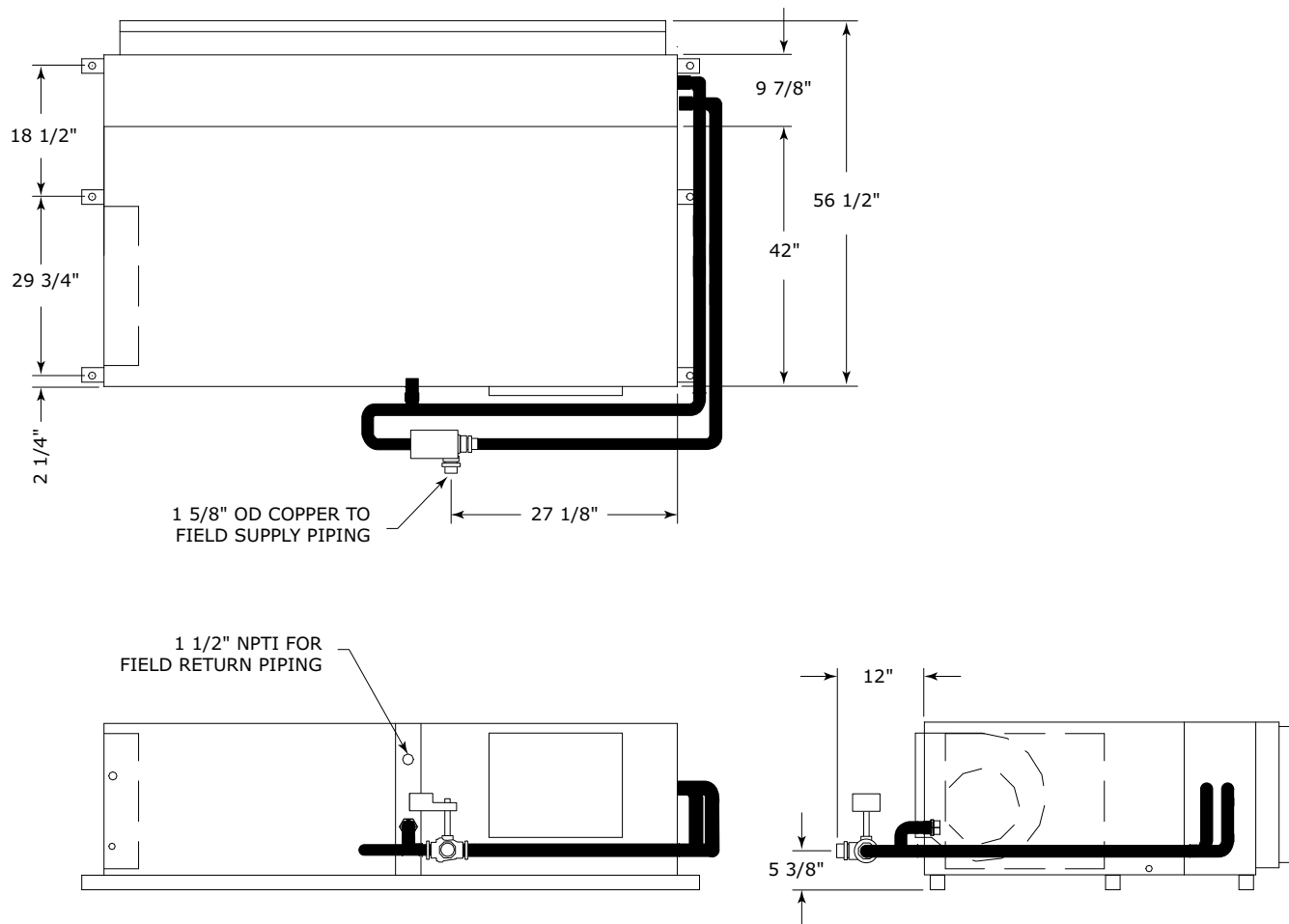


Table 184. Dimensional data GEHK 12.5 to 15 tons (60 Hz), GEHK 10 to 12.5 tons (50 Hz), right return with waterside economizer

| GEHK (60 Hz) | GEHK (50 Hz) | Hanging Weight | Shipping Weight |
|--------------|--------------|----------------|-----------------|
| 150          | 120          | 138 lbs        | 168 lbs         |
| 180          | 150          | 144 lbs        | 174 lbs         |

<sup>38</sup> Field piping required on waterside economizer.

**Figure 80. GEHK 12.5 to 15 tons (60 Hz), GEHK 10 to 12.5 tons (50 Hz), left return with waterside economizer<sup>39</sup>**



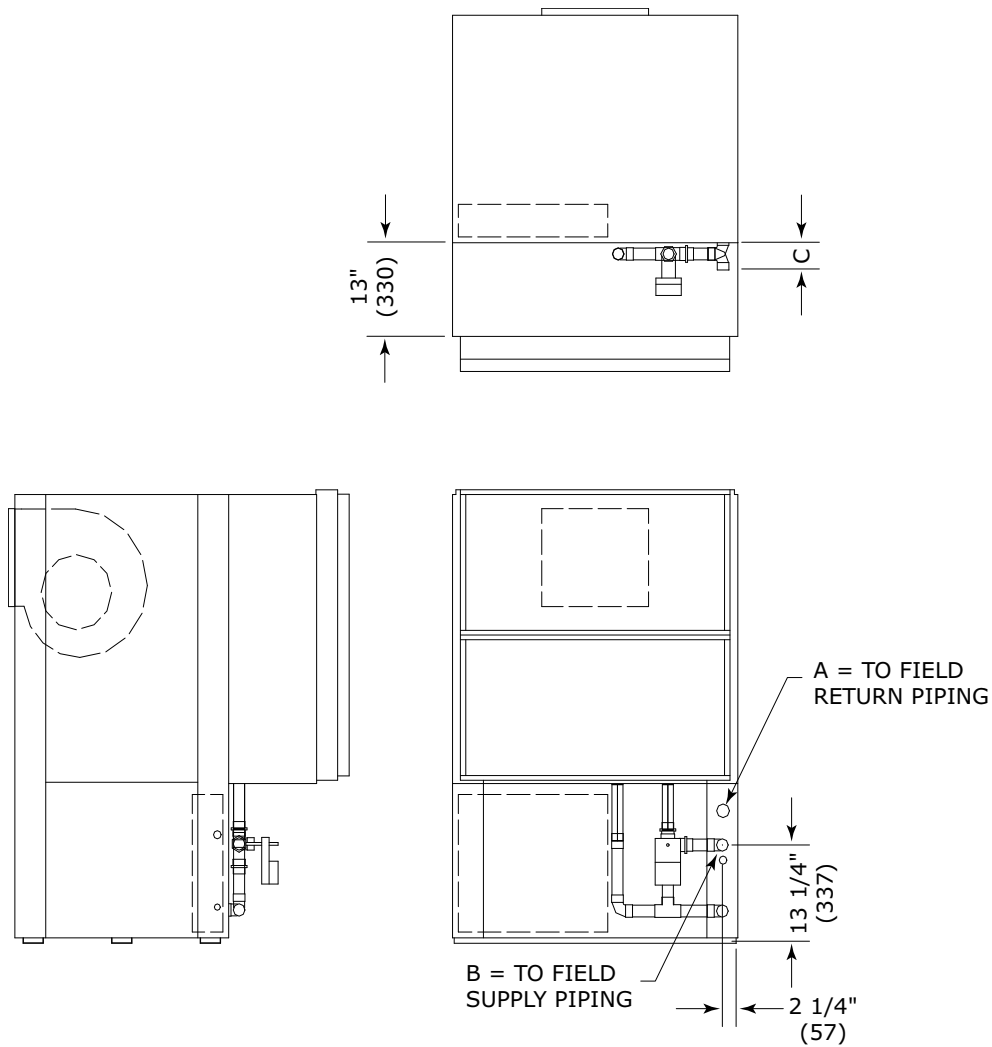
**Table 185. Dimensional data GEHK 12.5 to 15 tons (60 Hz), GEHK 10 to 12.5 tons (50 Hz) - left return with waterside economizer**

| GEHK (60 Hz) | GEHK (50 Hz) | Hanging Weight | Shipping Weight |
|--------------|--------------|----------------|-----------------|
| 150 to 180   | 120 to 150   | 213 lbs        | 243 lbs         |

<sup>39</sup>. Field piping required on waterside economizer.

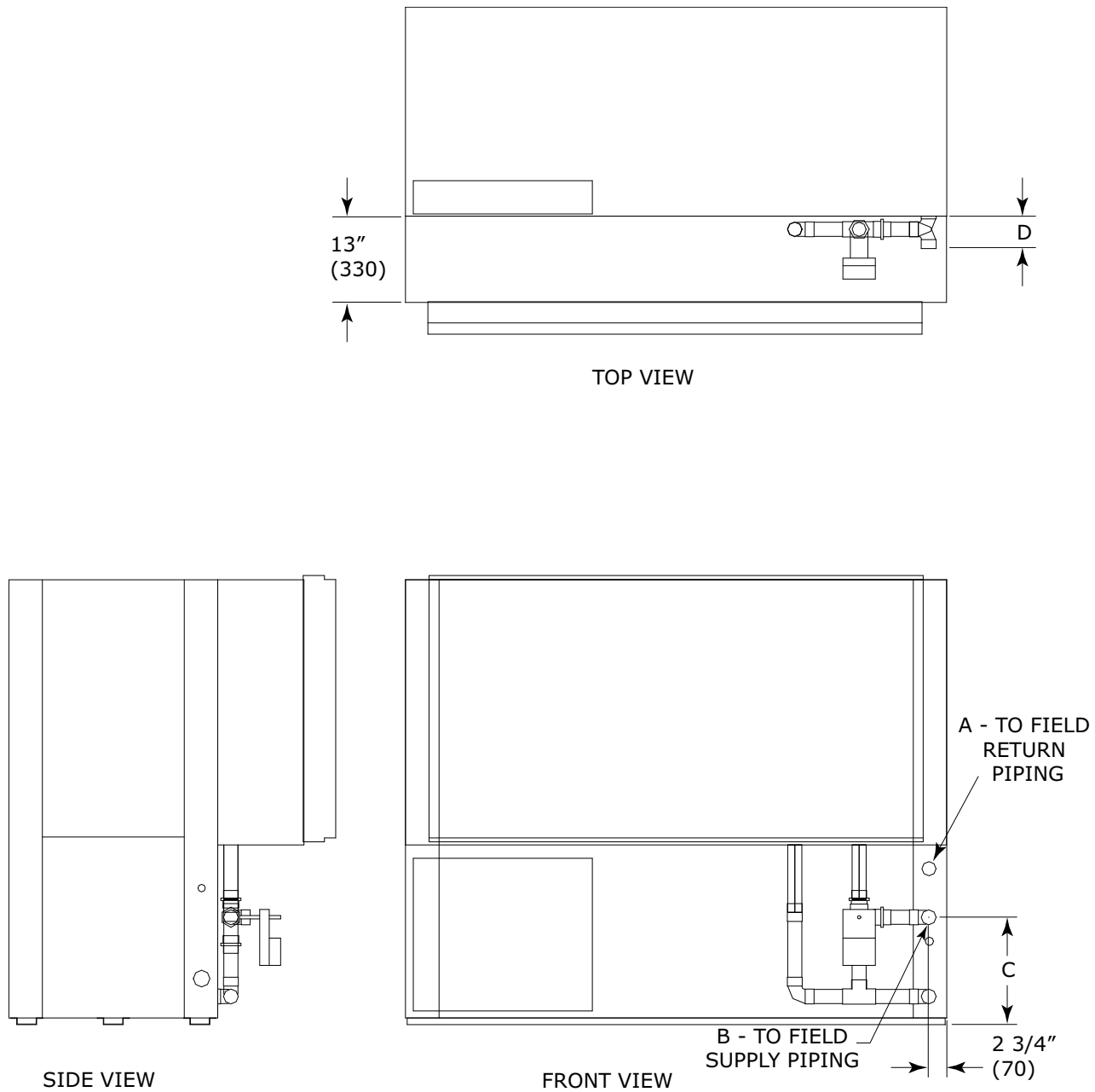
## Unit Dimensions

**Figure 81. GEVK 6 to 10 tons (60 Hz), 6 and 7.5 tons (50 Hz) - waterside economizer**



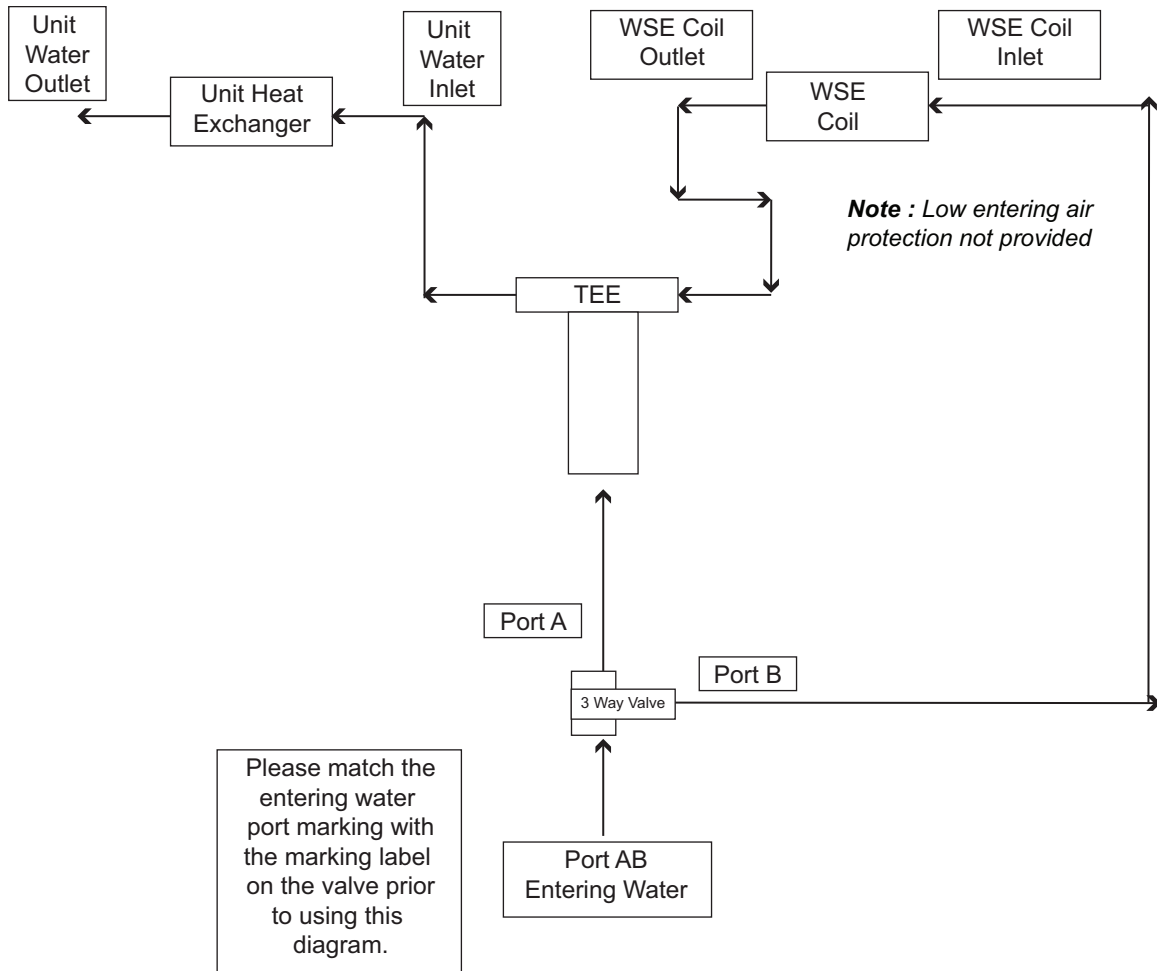
**Table 186. Dimensional data GEVK 6 to 10 tons (60 Hz), 6 and 7.5 tons (50 Hz) - waterside economizer**

| Unit (60 Hz) | Unit (50 Hz) | A     | B     | C     | Hanging Weight | Shipping Weight |
|--------------|--------------|-------|-------|-------|----------------|-----------------|
| 72           | —            | 1-1/4 | 1-3/8 | 4     | 148 lbs        | 178 lbs         |
| 90           | 72           | 1-1/4 | 1-1/4 | 4     | 168 lbs        | 198 lbs         |
| 120          | 90           | 1-1/2 | 1-5/8 | 4-3/8 | 207 lbs        | 237 lbs         |

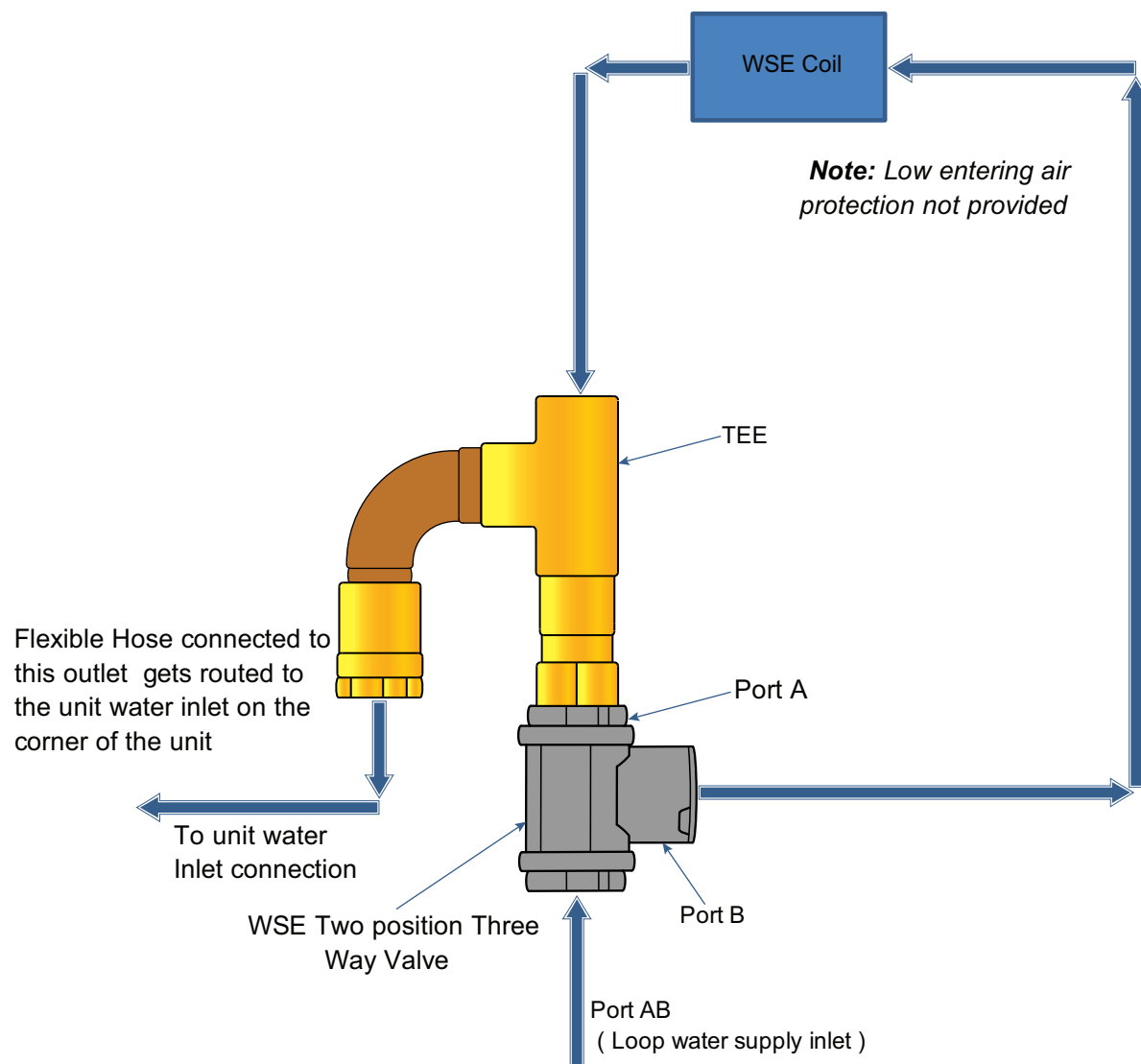
**Figure 82. GEVK (12.5 to 25 tons) - waterside economizer**

**Table 187. Dimensional data GEVK (12.5 to 25 tons) - waterside economizer**

| GEVK (60 Hz) | GEVK (50 Hz) | A - NPTI | B - I.D. | C      | D     | Hanging Weight | Shipping Weight |
|--------------|--------------|----------|----------|--------|-------|----------------|-----------------|
| 150-180      | 120-150      | 1-1/2    | 1-5/8    | 15-7/8 | 4-3/8 | 275 lbs        | 305 lbs         |
| 240          | 180          | 2        | 2-1/8    | 16-1/4 | 4-7/8 | 310 lbs        | 340 lbs         |
| 300          | 240          | 2        | 2-1/8    | 16-1/4 | 4-7/8 | 395 lbs        | 425 lbs         |

**Figure 83. Waterside economizer piping diagram (6 to 25 tons)**



**Figure 84. Waterside economizer coil piping diagram (0.5 to 5 tons)**





# Mechanical Specifications

## General

Equipment shall be completely assembled, piped, internally wired, fully charged with R-454B and test operated at the factory. Filters, thermostat field interface Terminal Plug (TP1), and all safety controls are furnished and factory installed. The system water inlet and outlet connections shall be an inside-thread NPT composed of copper. The equipment shall contain ETL-US-C, and AHRI-ISO 13256-1 listings and labels prior to leaving the factory.

Units meet the efficiency standards of the ASHRAE 90.1- standard.

Units 135,000 BTUH and below are certified to ANSI/AHRI/ASHRAE/ISO 13256-1. Units greater than 135,000 BTUH are outside the scope of the program and are rated in accordance with ANSI/AHRI/ASHRAE/ISO 13256-1.

Service and caution area labels shall also be placed on the unit in their appropriate locations.

All units come standard with a 5-year compressor warranty.

## Air-to-Refrigerant Coil

Internally finned, 3/8-inch copper tubes mechanically bonded to a configured aluminum plate fin as standard. Coils are leak tested at the factory to ensure the pressure integrity. The coil shall be leak tested to 450 psig and as working pressure up to 600 psig. The tubes are to be completely evacuated of air and correctly charged with proper volume of refrigerant prior to shipment.

The refrigerant coil distributor assembly shall be of orifice style with round copper distributor tubes. The tubes are sized consistently with the capacity of the coil. Suction header is fabricated from rounded copper pipe.

A thermostatic expansion valve is factory selected and installed for a wide range of control.

## DDC Controller (Option)

The Symbio™ 400-B/500 controller shall utilize factory furnished and mounted DDC controls. The DDC control package shall include a 100 VA transformer, high and low pressure switches, condensate overflow and freeze protection. The controller shall provide random start delay, heating/cooling status, occupied/unoccupied mode, fan status and filter maintenance options.

On the GEH/V product line, the discharge air sensor and leaving water sensor are standard for Symbio 400-B/500 controls.

The controller shall be capable of a standalone application, or as applied to a full building automation installation.

With this controller, the unit shall be capable of a hot gas reheat (for dehumidification), boilerless control for electric heat, waterside economizing, and support of variable speed pump control applications.

## Deluxe Controls

The deluxe control package has a 100 VA transformer with circuit breaker, low and high pressure switches, condensate overflow and freeze protection. The controller shall include a lockout function, anti-short cycle compressor protection, random start delay, brown-out protection, low pressure time delay, compressor delay on start and an open relay for pump request. Hot gas reheat or electric heat shall also be provided (option). Three LEDs (light emitting diodes) are included for diagnostics of the equipment.

## Cabinet

Unit casing shall be constructed of zinc coated, heavy gauge, galvanized steel.

For 6 to 25 ton units, service to the refrigerant and controls shall be provided through a single access panel at the front of the equipment. Access to the refrigerant and controls for the larger units shall be provided through the front and side access panels.

Panels shall be insulated with either 1/2-inch thick dual density bonded glass fiber or 1/2-inch thick foil-faced glass fiber. Foil faced insulation edges are encapsulated to prevent glass fibers from entering the airstream. The glass fiber insulations have a flame spread of 25 or less and a smoke developed classification of 50 or less per ASTM E-84 and UL 723. The dual density insulation has a minimum rated service air velocity of 3600 feet per minute (FPM) and meets the erosion requirements of UL 181.

Access for inspection and cleaning of the unit drain pan, coils and fan section shall be provided. The unit shall be installed for proper access.

Procedures for proper access inspection and cleaning of the unit shall be included in the maintenance manual.



## Hanging Rod Grommets

For 0.5 to 5 tons units, six rubber grommets are enclosed with every GEH\* unit. These grommets are to be used in conjunction with unit hanging rods to isolate vibration. Rubber grommets are only factory provided on .5 to 5 tons units. Grommets must be ordered separately for 6 to 15 tons GEH units.

## Compressor

The unit will contain a high efficiency rotary or scroll compressor. External vibration isolation shall be provided by rubber mounting devices located underneath the mounting base of the compressor. On 0.5 to 5 tons units, a second isolation of the refrigeration assembly shall be supported under the compressor mounting base.

Internal thermal overload protection shall be provided. Protection against excessive discharge pressure is provided by means of a high pressure switch. Protection against a loss of charge is provided by a low pressure safety.

## Polymer Drain Pan

The condensate pan shall be constructed of corrosion resistant material and insulated to prevent sweating. The bottom of the drain pan shall be sloped on two planes which pitches the condensate to the drain connection. The drain pan shall be flame rated per UL94–5V-B. A UL508 float switch shall be installed on all units to protect against the overflow of condensate from the drain pan.

## Stainless Steel Drain Pan

The stainless steel drain pan and the drain stubout shall be constructed of heavy gauge type 304 stainless steel. The bottom of the drain pan shall be sloped on two planes which pitches the condensate to the drain connection. The stainless steel material shall meet the requirements of ASTM A480/A480M and comply with the chemical composition requirements of ASTM A240. The drain pan shall be insulated to prevent moisture accumulation on the drain pan material. The drain pan insulation material shall be suitable to be used in the airflow and consists of closed cell elastomeric insulation, complying with flammability requirements of UL94–5V.

## Economizing Coil

The waterside economizing package shall be an external unit accessory pre-piped and pre-wired ready for turn-key installation to the unit. The economizing coil shall be designed to perform with the WSHP at unit measured flow rate of 80°F DB/67°F WB with 45°F EWT. The working water pressure of the waterside economizer coil is 400 psi.

All hydronic coils are of 3/8-in. copper and aluminum plate fin combination. All coils shall be proof and leak tested. The proof test shall be performed at 1.5 times the maximum operating pressure and the leak test at the maximum operating pressure.

A dual sloped noncorrosive drain pan is easily accessible and cleanable for the hydronic economizing coil.

An electronic two-position, 3-way valve shall provide water flow to the economizing coil during the economizing mode. It is factory set to energize the economizing mode at 55°F, while simultaneously halting mechanical operation of the compressor.

For 0.5 to 5 tons units, hanging brackets with rubber isolation shall be provided for the horizontal version of the economizing coil option. The bracket design shall be the same throughout the equipment.

## Electrical

The unit control box shall contain all necessary devices to allow heating and cooling operation to occur from a remote wall thermostat. These devices are as follows:

- 24 Vac energy limiting class II [100 VA (minimum) transformer applicable to all units].
- 24 Vac blower motor relay
- 24 Vac compressor contactor for compressor control
- Field thermostat connections shall be provided for ease of hook-up to terminal locations located in the unit's control box.
- Lockout function controls excessive cycling of the compressor shall be provided to protect the compressor during adverse operating conditions. The device may be reset by interrupting power to the 24 Vac control circuit. Reset may be done either at a remote thermostat or through a momentary main power interruption for units with thermostat controls. For units with DDC controls, the reset can be reset at the zone sensor (with an off switch) or a service tool.
- A high pressure switch shall protect the compressor against operation at refrigerant system pressures exceeding 600 psig.



## Mechanical Specifications

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- Factory installed wire harness shall be available for the Deluxe and Symbio™ 400-B/500 control packages.

Nameplate information shall provide MOP ratings for branch circuit protection from the primary source of power. All units have a SCCR of 5KA at 600V as labeled on the unit nameplate.

### Electric Heat (Option)

For 0.5 to 5 tons units, external boilerless electric heat is composed of a control interface for a field or factory provided electric heat. The heater is placed external to the unit by the installer. Power connection to the electric heat is separate from the unit. It shall be composed of a nichrome open wire coil. The design consists of a single stage of electric heat used as a primary heating source when compressor lockout has occurred due to the entering water temperature falling below 55°F with an adjustable range between 25°F to 60°F. The electric heat option is not intended for secondary heat. All power connections to the electric heat shall be made in the control box of the electric heater. See *Electric Heat and 575V Water Source Heat Pump 0.5 to 6 Tons Installation Instructions* (WSHP-SVN011\*-EN) for more information.

### Boilerless Electric Heat Ready (Option)

External boilerless electric heat ready control option is composed of a control interface for a field provided electric heater. The heater is placed external to the unit by the installer. Power connection to the electric heat is separate from the unit.

### Filters

One-inch or two-inch, throwaway filters are standard and factory installed. Two and four-inch MERV 8 or 13 filters are also available as an option. The filters have an average arrestance of 75% and dust holding capacity of 26-grams per square foot.

### Hot Gas Reheat (Option)

Dehumidification is provided through a hot gas reheat option. Hot gas reheat is enabled when the space humidity level is above a user-selectable setpoint. When hot gas reheat is enabled, the fan speed is reduced to enhance the dehumidification effect. The coil consists of 3/8-inch copper tubes mechanically expanded into evenly spaced aluminum fins. All coils are leak tested to 450 psig and pressure tested to 600 psig at the factory.

## Indoor Fan

### 0.5 to 5 Tons

The motor is an ECM variable speed motor with overload protection. The ECM motor is programmed to provide soft starting and a constant torque over a range of static pressures and airflows. For the Deluxe Basic control options, an ECM control board is provided that allows easy field adjustment to manually set the fan speed to meet the specific application. For the Symbio™ 400-B/500, Tracer TU must be used to set the fan speed.

The fans is placed in a draw-through configuration and shall be a centrifugal, direct drive type. They are constructed of corrosion resistant galvanized material. Removal of the motor and fan wheel is made possible utilizing the factory provided orifice ring.

### 6 to 25 Tons

The blower has multiple blower motor/sheave combinations available. Options of the blower motor/fan packages are selected and wired from the factory to match performance criteria suggested in the performance section. The fan(s) is placed in a draw-through configuration. They are constructed of corrosion resistant galvanized material. All 6 to 25 ton units are belt drive.

### Single-Zone VAV/Variable Speed Fan Operation (0.5 to 5 Tons)

When configured with a variable speed fan, the Symbio 400-B/500 controller treats all active fan-mode requests (except OFF) as AUTO.

When in AUTO, the controller ramps up the fan between the lowest and highest speeds to meet the space demand or minimum airflow setting of the unit for specific heating/cool modes (whichever is higher). The setpoints below can be adjusted to meet individual specifications.

The following setpoints cannot be configured below the lowest possible speed of the fan:

- AV/20 Supply Fan Speed Ventilation: When configured for continuous operation, this is the speed at which the fan operates when heating and cooling stages are not active.

- AV/19 Supply Fan Speed First Stage Minimum: The lowest speed the fan operates when in the first stage of heating or cooling. The fan ramps up from this point to meet demand.  
**Note:** Capacity must be at 100 percent for 10 minutes before the fan ramps to AV/17 setting.
- AV/17 Supply Fan Speed Maximum Heat Cool Capacity: When electric heat is not active or a single stage of a compressor is active, the fan modulates between AV19 and AV17 to meet demand. When electric heat or the second stage of compressor is active, the fan runs at AV17.
- AV/18 Supply Fan Speed Dehumidification: This is the speed at which the fan operates in the active dehumidification mode.

## Single Point Power Connection

Single point power connection allows a convenient location to bring in the power supply to the unit. The one single power source powers the entire unit including the controls, compressor, blower motor, and all installed options.

## Electric Heat Power Connection (Separate from Unit)

A separate power source is required to power all the electric heater options in the 0.5 to 5 ton units while the heat pump has its own separate power connection.

## Refrigerant Circuits

The refrigerant circuit shall contain a thermal expansion device. Service pressure ports shall be factory supplied on the high and low pressure sides for easy refrigerant pressure or temperature testing. Filter driers are standard.

## Unit Mounted Disconnect (0.5 to 5T Vertical/Horizontal Option)

Disconnect Switch is unit-mounted and easily accessed from the front of the unit. The disconnect switch can be locked in the off position with one padlock. The disconnect switch is UL508 listed.

## Refrigerant Tubing

The refrigerant tubing shall be of 99% pure copper. This system shall be free from contaminants and conditions such as drilling fragments, dirt and oil. All water lines that are located in the indoor air stream shall be insulated with 3/8-inch thick elastomeric insulation. The refrigerant lines that are located in the indoor air stream that are not directly over the drain pan area shall be insulated with 3/8-inch thick elastomeric insulation.

## Reversing Valve

The reversing valve is a pilot operating sliding piston type with replaceable encapsulated magnetic coil. This valve is energized in cooling.

## Sound Attenuation

Sound attenuation shall be applied as a standard feature in the product design. For 0.5 to 5 ton units, the sound reduction package shall include vibration isolation to the compressor and water-to-refrigerant coil, unit base stiffeners, and a second stage of vibration isolation to the compressor and water-to-refrigerant base pan. The unit is tested and rated in accordance with AHRI 260.

## Water-to-Refrigerant Heat Exchanger

The water-to-refrigerant heat exchanger shall be of a high quality co-axial coil for maximum heat transfer. The copper or optional cupro-nickel coil shall be deeply fluted to enhance heat transfer and minimize fouling and scaling. The coil has a working pressure of 400 psig on the water side and 600 psig on the refrigerant side. The factory shall provide rubber isolation to the heat exchanging device to enhance sound attenuation.



### Water-to-Refrigerant Heat Exchanger and Suction Lines - Insulated Option

The water-to-refrigerant heat exchanger(s), water lines, and refrigerant suction lines shall be insulated to prevent condensation at low temperatures below 60° F. This can be added to the existing water-to refrigerant heat exchanger spec when the insulated option is selected. This would be both for the copper or optional cupro-nickel coil.

### Factory Mounted Isolation Valve (Option)

The two-position valve is factory installed and wired and will open on a call for heating or cooling and close when there is no call for heating or cooling. The isolation valve has a working pressure of 360 psig for the 1/2-inch and 3/4-inch valves. The 1-inch valve has a working pressure of 600 psig.

### Supply and Return Hoses

One-half inch to 1-1/4-inch hose assemblies are fire retardant coated stainless steel outer braid and a thermoplastic rubber tube with a UL94-VO rating. 1-1/2-inch to 2-1/2-inch hose assemblies are a thermoplastic rubber tube. Each assembly has a rigid outside-thread NPT on one end and a JIC swivel coupling with a JIC to outside-thread NPT adapter on the other end. Working pressure is 300 PSI for 1/2-inch to 1-1/4-inch, 200 PSI for 1-1/2-inch, and 150 PSI for 2-inch to 2-1/2-inch with a minimum burst pressure four times the working pressure. Temperature range for the hose is -40° F[C] to +190° F. All outside-thread pipe threads are shipped with thread sealant already applied, capped, and ready for installation.

### Ball Valves

Each ball valve kit consists of two equally sized ball valves. During system balancing, ball valves may be opened or closed to allow more or less water to enter the heat pump. Valves can be used as shut-off for servicing.

### Return Air Duct Panel (Accessory)

Return Air Duct Panel is a top and bottom flange to allow connection of return air duct and is field installed. The return air flange does not allow for a fully sealed application. It is adjustable for 1-inch or 2-inch filters.

### Two-inch or Four-inch Ducted Filter Rack (Accessory)

The ducted filter rack is field mounted for the use of 2- or 4-inch filters and provides easy access to the filters from the side of the filter rack through a door that does not require a tool. Duct collars are built into the filter rack to provide an easy means to connect the duct work to the unit.

### Leak Detection Sensors

Unit shall be furnished with a leak detection system from the factory when a circuit refrigerant charge exceeds 3.91 lbs. The leak detection system shall consist of one or more refrigerant detection sensors. When the system detects a leak, the unit controller shall initiate mitigation actions.





## Notes

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