

Product Catalog **Packaged Rooftop Air Conditioners Foundation™ Electric/Electric** 3 to 5 Tons, 50Hz



RT-PRC079E-EN





Introduction

Packaged Rooftop Air Conditioners



Through the years, Trane has designed and developed the most complete line of Packaged Rooftop products available in the market today.

Trane customers demanded a product that provided exceptional reliability, was easy to install, and was competitively priced. Trane listened and is proud to introduce the new Trane Foundation[™] Light Commercial rooftop unit.

With Foundation, Trane continues to provide the highest standards in quality and reliability, comfort, performance, and ease of installation.

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Revision History

- Updated 2-inch MERV 13 throwaway filters information in Features and Benefits, Electrical Data and Mechanical Specifications chapters.
- Running edits.



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Features and Benefits

Foundation[™] has features and benefits that make it first class in the light commercial rooftop market. Designed with input from field contractors and technicians, its convertible airflow and ease of installation are outstanding.

Standard and Optional Features at a Glance

Standard Features

- 2-inch throwaway filters
- 5kA SCCR (Short Circuit Current Rating)
- 5 year Limited Compressor Warranty
- 1 year Limited Parts Warranty
- Belt Drive Motors
- Cleanable Condensate Drain Pan
- Colored and Numbered Wiring
- Convertible Airflow
- Cooling to 45°F
- Discharge Line Thermostat
- Electromechanical Controls
- Easy Access Low Voltage Terminal Board (LTB)
- Foil-Faced and Edge Captured Insulation
- High Pressure Cutout
- Liquid Line Refrigerant Drier
- Locking Safety Device
- Locking Safety Device with Anti-Short Cycle Timer
- Microchannel Type Condenser and Evaporator Coils
- Operating Charge of R-410A
- Phase Monitor
- Provisions for Through-the-Base Electrical
- Quick Access Panels
- Quick Adjust Fan Motor Mounting Plate
- Single Point Power
- Single Side Service
- Standardized Components

Factory Installed Options

• Complete Coat[™] Microchannel Condenser Coil

Factory or Field Installed Options

- Condensate Overflow Switch
- Electric Heaters
- Manual Outside Air Dampers
- Oversized Motor

Field Installed Options

- Crankcase Heater
- Low Ambient Kit
- Roof Curb
- Thermostat
- Tool-less Hail Guard
- 2-inch MERV 13 throwaway Filters



Other Benefits

- Cabinet Design Ensures Water Integrity
- Convertible Airflow Downflow to Horizontal Airflow Configuration
- Ease of Service, Installation and Maintenance
- Mixed Model Build Enables "Fastest in the Industry" Ship Cycle Times
- Rigorous Testing
- Unmatched Product Support

Outstanding Standard Features

Colored and Numbered Wiring

Save time and money tracing wires and diagnosing the unit.

Compressor

Foundation[™] contains the best compressor technology available to achieve the highest possible performance.

Controls-Electromechanical

This 24-volt control includes the control transformer and contactor pressure lugs for power wiring.

Convertible Units



Foundation 3-5 tons units ship in downflow configuration. Their convertible design makes it easy to convert them to a horizontal airflow configuration without any kit or tool.

Discharge Line Thermostat

A bi-metal element discharge line thermostats installed as a standard feature on the discharge line of each system. This standard feature provides extra protection to the compressors against high discharge temperatures in case of loss of charge, extremely high ambient and other conditions which could drive the discharge temperature higher.

Efficiency

Product efficiencies meet the requirements of ASHRAE 90.1 - 2016.

Easy Access Low Voltage Terminal Board

Foundation[™] Low Voltage Terminal Board is mounted outside the main electrical control cabinet. It is extremely easy to locate and attach the thermostat control wiring and also test operation of all unit functions. This is another cost and time saving installation feature.

Foil Faced Insulation

All panels in the evaporator section of the unit have cleanable foil-faced insulation. All edges are either captured or sealed to ensure no insulation fibers get into the airstream.



Locking Safety Device with Anti-Short Cycle Timer

This device monitors compressor safety switch trips to prevent short cycling, protecting the compressor. A manual reset is required after a fourth safety switch trip within a 6 hour period.

Low Ambient Cooling

All Foundation units have cooling capabilities down to 45°F as standard.

Low Voltage Connections

The wiring of the low voltage connections to the unit and the thermostat is as simple as R-R, G-G, Y-Y, and W-W. This simplified system makes it easy for the installer to wire.

Microchannel Coils



Microchannel coils are all-aluminum coils with fullybrazed construction. This design reduces risk of leaks and provides increased coil rigidity — making them more rugged on the jobsite. Their flat streamlined tubes with small ports and metallurgical tube-to-fin bond allow for exceptional heat transfer.

Microchannel all-aluminum construction provides several additional benefits:

- Light weight (simplifies coil handling)
- Easy to recycle
- Minimize galvanic corrosion

Motors

All indoor fan motors are belt drive as standard.

Pressure Cutouts

Low and high pressure cutouts are standard on all Foundation[™] models.

Phase Monitor

Foundation features a three-phase line monitor module that protects against phase loss, phase reversal and phase unbalance. It is intended to protect compressors from reverse rotation. It has an operating input voltage range of 190–600 Vac, and LED indicators for ON and FAULT. There are no field adjustments and the module will automatically reset from a fault condition.

Quick-Access Panels

Remove four or less screws for access to the standardized internal components and wiring.

Quick-Adjust Fan Motor Mounting Plate

With the quick-adjust slider plate, the belt and sheaves can be quickly adjusted without moving the mounted fan motor. This results in reduced time spent on routine maintenance.

Single Point Power

A single electrical connection powers the unit and all on-board options.

Single Side Service

Single side service is standard on all units.



Sloped Drain Pans

Every Foundation[™] unit has a non-corrosive, sloped drain pan made of rigid PVC - standard on all units - that is removable for easy cleaning.

Standardized Components

Components are placed in the same location on all Foundation units. Familiarize yourself with one Foundation and you are familiar with every Foundation. Due to standardized components throughout the Foundation line, contractors/owners can stock fewer parts.

Variety of Options¹

Factory Installed Options

Complete Coat[™] Condenser Coil

The cathodic epoxy type electrodisposition coating is formulated for high edge build to a number of different types of heat exchangers. The coating is selected to provide excellent resistance and durability to corrosive effects of alkalies, acids, alcohols, petroleum, seawater, salt air, and corrosive environments.

Factory or Field Installed Options

Condensate Overflow Switch

A condensate overflow switch is available to shut the unit down in the event that the condensate drain line becomes clogged. This option protects the unit from water overflowing from the drain pan and entering the base of the units.

Electric Heat

Electric heat is available as a factory or field installed option.

Manual Outside Air Damper

A 0–50 percent manual air damper is available.

Oversized Motors

Factory or field installed oversized motors are available for high static applications.

Field Installed Options

Crankcase Heaters

These band heaters provide improved compressor reliability by warming the oil to prevent migration during off-cycles or low ambient conditions.

Low Ambient Kit

Allows system to operate in cooling below 45 degree by maintaining head pressure by cycling the outdoor fan motor allowing safe system operation without indoor coil icing.

Roof Curbs

Available for downflow units.

Thermostats

Available in programmable and non-programmable.

¹ Refer to "Model Number Description," p. 12 for option availability.

Tool-less Hail Guards

Tool-less, hail protection quality coil guards shall be field-installed for condenser coil protection. This option protects the condenser coil from vandalism and/or hail damage.

Other Benefits

Cabinet Integrity

For added water integrity, Foundation has a raised 1-1/8" lip around the supply and return of the downflow units to prevent water from blowing into the ductwork.

Easy to Install, Service and Maintain

Because today's owners are very cost-conscious when it comes to service and maintenance, Foundation was designed with direct input from service contractors. This valuable information helped to design a product that would get the service technician off the job quicker and save the owner money. Foundation does this by offering outstanding standard features enhanced by a variety of factory and field installed options, multiple control options, rigorously tested proven designs and superior product and technical support.

Outstanding Adaptability

The Foundation 3-5 Tons units match the footprint of specific Carrier WeatherMaker units.

Rigorous Testing

All of Foundation's designs were rigorously rain tested at the factory to ensure water integrity. Foundation units incorporate either a one piece top or the Trane-Tite-Top (T3). Each part of the top overlaps in such a way that water cannot leak into the unit. These overlapped edges are gasketed and sealed to ensure superior water integrity.

Actual shipping tests were performed to determine packaging requirements. Units were test shipped around the country to determine the best packaging. Factory shake and drop tests were used as part of the package design process to help assure that the unit arrives at the job site in top condition.

Rigging tests include lifting a unit into the air and letting it drop one foot, assuring that the lifting lugs and rails hold up under stress. For the microchannel coils, the supplier will perform the leak check at 450 psig. The completely assembled refrigerant system is leak tested at a minimum of 225 psig with a refrigerant and nitrogen mixture.

All parts are inspected at the point of final assembly. Sub-standard parts are identified and rejected immediately. Every unit receives a 100% unit run test before leaving the production line to make sure it lives up to rigorous Trane requirements.

Unmatched Support

Trane Sales Representatives are a Support Group that can assist you with:

• Product

- Special Applications
- Application
- Specifications

Service

Computer Programs and much more

• Training



Application Considerations

Application of this product should be within the cataloged airflow and cooling considerations.

Clearance Requirements

The recommended clearances identified with unit dimensions should be maintained to ensure adequate serviceability, maximum capacity and peak operating efficiency. Actual clearances which appear inadequate should be reviewed with local Trane sales personnel.

Complete Coat[™] Microchannel Condenser Coil

The cathodic epoxy type electrodisposition coating is formulated for high edge build to a number of different types of heat exchangers. The coating is selected to provide excellent resistance and durability to corrosive effects of alkalies, acids, alcohols, petroleum, seawater, salt air, and corrosive environments. This coating shall be available on microchannel condenser coils.

Condensate Trap

The evaporator is a draw-through configuration. A trap must be field provided prior to start-up on the cooling cycle.

Low Ambient Cooling

The Foundation line features low ambient cooling down to 45°F. The following options need to be included/considered when low ambient applications are required: continuous fan operation, crankcase heaters, or low pressure bypass timer. Contact your local Trane Representative for more assistance with low ambient cooling applications.

Unit Pitch

These units have sloped condensate drain pans. Units must be installed level. Any unit slope must be toward access side of the unit.



Selection Procedure

Cooling Capacity

Step 1

Calculate the building's total and sensible cooling loads at design conditions. Use the following calculation methods or any other standard accepted method. Factors used in unit selection:

- Total Cooling Load: 61MBh
- Sensible Cooling Load: 45 MBh
- Airflow: 2000 cfm
- Electrical Characteristics: 460/60/3
- Summer Design Conditions: Entering Evaporator Coil: 80 DB, 67 WB Outdoor Ambient: 95 DB
- External Static Pressure: 0.36 in. wg
- Rooftop: downflow configuration
- Accessories:
 - Roof curb
 - Electric Heat

Step 2

As a starting point, a rough determination must be made of the size of the unit. The final selection will be made after examining the performance at the given conditions. Divide the total cooling load by nominal Btu/h per ton (12 MBh per ton); then round up to the nearest unit size.

61MBh / 12 MBh = 5.0 tons

Step 3

Table 4, p. 16 shows that a EBC060A has a **gross** cooling capacity of 61.8 MBh and 48.9 MBh sensible capacity at 2000 cfm and 95 DB outdoor ambient with 80 DB, 67 WB air entering the evaporator.

To Find Capacity at Intermediate Conditions Not in the Table

When the design conditions are between values that are identified in the capacity table, interpolation is required to approximate the capacity.

Note: Extrapolation outside of the table conditions is not recommended.

Step 4

In order to select the correct unit which meets the building's requirements, the fan motor heat must be deducted from the gross cooling capacity. The amount of heat that the fan motor generates is dependent on the effort by the motor—cfm and static pressure. To determine the total unit static pressure you add the external static pressure to the additional static related by the added features:

External Static Duct System: 0.36 in. wg

Standard Filter from Table 13, p. 23: 0.06 in. wg

Electric Heater Size kW from Table 13, p. 23: 0.07 in. wg

(Reference "Heating Capacity," p. 11 for determination of heater size).

Total Static Pressure: 0.49 in. wg

Note: The Evaporator Fan Performance Table 9, p. 21 has already accounted for the pressure drop for standard filters and wet coils (see note below that table). Therefore, the actual total static pressure is 0.49 - 0.06 (from Table 13, p. 23) = 0.43 in. wg.

With 2000 cfm and 0.43 wg.



Table 9, p. 21 shows 0.77 bhp for this unit. Note below the table gives a formula to calculate Fan Motor Heat: 2.8328 x Fan bhp + 0.4714.

2.8328 x 0.77 + 0.4714 = 2.65MBh

Now subtract the fan motor heat from the gross cooling capacity of the unit:

Net Total Cooling Capacity = 61.8 MBh - 2.65 = 59.15 MBh.

Net Sensible Cooling Capacity = 48.9 MBh - 2.65 = 46.25 MBh.

Step 5

If the performance will not meet the required load of the building—total or sensible cooling load, try a selection at the next higher size unit.

Heating Capacity

Step 1

Calculate the building heating load.

Step 2

Size the system heating capacity to match the calculated building heating load.

The electric heat accessory capacities are listed in Table 14, p. 24. From the table, a 10 kW heater will deliver 34.14 MBh at 480 volts. In order to determine capacity at 380 volts, the heater voltage correction factor from Table 15, p. 24 must be used. Therefore, 34.14 MBh x 0.63 (voltage correction factor) = 21.5MBh.

Air Delivery Selection

External static duct pressure drop through the air distribution system has been calculated to be 0.36 inches of water. From Table 13, p. 23 static pressure drop across the filters is 0.06 and the 10kW heater is 0.07 inches of water.

Therefore the total static pressure is 0.36 + 0.06 + 0.07= 0.49 inches.

Enter *Table 9, p. 21* for a EBC060A4 at 2000 cfm and 0.43 static pressure. The standard motor at 921 rpm will give the desired airflow at a rated bhp of 0.77.



Model Number Description

Е	в	с	0	3	6	А	D	Е	А	А	0	о
1	2	3	4	5	6	7	8	9	10	11	12	13
Digit ⊧ -	1 – Ur Packag	nit Type	n Electric I	Heat	Digit 2	22– Not	Used					
∟ = Diait	2 - Ff	ficiency	у, шесптс і ,	neat	Digit 2	23– Not	Used					
B =	ASHRA	E 90.1 - 20	016		Digit 2	24– Not	Used					
Digit	3 – Ai	rflow C	onfigura	tion	Digit 2	25 - Svste	em Monito	rina				
C =	Conver	tible	· ·		Contro	ols		- 5				
Digit Cooli 036 =	4, 5, 6 ng Cap 3 Tons	— Nom acity (N	inal Gros IBh)	SS	0 = A =	No Monito Condensat Switch	ring Controls e Drain Pan O	Verflow				
048 = 060 =	4 Tons 5 Tons				Mode	el Numb	per Notes	5				
Digit Sequ A	7 — M ence	ajor Des	sign		1. All Bui ser	Factory In It-to-Orde vices for e	stalled Option r. Check ord stimated pro	ons are er oduction				
Digit D =	8 – Vo 380-415	oltage S 5/50/3	election		сус	le.						
Digit	9 – U	nit Cont	rols									
E =	Electro	mechanica	al									
0 = A = B = C = D = E =	No Hea 4.7 kW 6.3 kW 9 kW E 12.5 kW 15.7 kW	t Electric He Electric He ectric Hea / Electric H	eat eat it leat leat									
Digit Sequ	11 — M ence	/linor De	esign									
Diait	12, 13	– Servi	ice Seau	ence								
00 =	None											
Digit	14 — F	resh Ai	r Selecti	on ¹								
0 = A =	No Fres Manua 0-50%	sh Air Outside A	Air Dampe	r								
Digit Type	15 — S Motor	Supply F	an/Drive	•								
0 = 1 =	Standa Oversiz	rd Motor ed Motor										
Digit	16 — M	lot Used	ł									
Digit	17 – C	Condens	er Coil									
0 = 4 =	Standa Comple	rd Coil eteCoat™	Condenser	r Coil								
Digit Provi	18 — 1 sions	hrough	The Bas	e								
0 =	No Thr	ough The	Base Provi	isions								
Digit	19 – E No Dise	Disconnect	ect Swit	ch								
- Diait	20- N	ot Used										
Diait	21 – N	ot Used										



General Data

Table 1. General data - 3-5 tons

	3 Tons	4 Tons	5 Tons
	EBC036	EBC048	EBC060
Cooling Performance ^(a)			
Gross Cooling Capacity	37,000	49,500	58,500
EER ^(b)	12	12	12
Nominal Airflow CFM / AHRI Rated CFM	1200 / 1200	1600 / 1600	2000 / 2000
AHRI Net Cooling Capacity	36,000	48,000	56,500
Seasonal Energy Efficiency Ratio (SEER) ^(c)	14	14	14
System Power (kW)	3.00	4.00	4.71
Compressor			
Number/Type	1 / Scroll	1 / Scroll	1 / Scroll
Sound			
Outdoor Sound Rating (BELS) ^(d)	80dBA	80dBA	78dBA
Outdoor Coil			
Туре	Microchannel	Microchannel	Microchannel
Coil Width (in.)	0.63	0.81	1.0
Face Area (sq. ft.)	11.33	13.46	15.92
Rows/FPI	1 / 23	1 / 23	1 / 23
Indoor Coil			
Туре	Microchannel	Microchannel	Microchannel
Coil Width (in.)	0.63	0.81	0.81
Face Area (sq. ft.)	6.44	6.44	6.44
Rows/FPI	2 / 16	2 / 16	2 / 16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve
Drain Connection Number/Size (in.)	1 / ¾-14 NPT female	1 / ¾-14 NPT female	1 / 34-14 NPT female
Outdoor Fan			
Туре	Propeller	Propeller	Propeller
Number Used/Diameter (in.)	1 / 23	1 / 23	1 / 23
Drive Type/No. Speeds	Direct / 1	Direct / 1	Direct / 1
cfm	4,000	4,000	4,000
Number Motors/hp	1 / 0.33	1 / 0.33	1 / 0.33
Motor rpm	950	950	950
Indoor Fan			
Туре	FC Centrifugal	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)	1 / 11x11	1 / 11x11	1 / 11x11
Drive Type/No. Speeds	Belt / 1	Belt / 1	Belt / 1
Number Motors	1	1	1
Motor hp (Standard/Oversized)	1.0 / 2.0	1.0 / 2.0	1.0 / 2.0
Motor rpm (Standard/Oversized)	1450 / 1450	1450 / 1450	1450 / 1450
Motor Frame Size (Standard/Oversized)	56 / 56	56 / 56	56 / 56
Filters			
Type Furnished	Throwaway	Throwaway	Throwaway
Number Size Recommended	(4) 16x16x2	(4) 16x16x2	(4) 16x16x2
Refrigerant Charge (Pounds of R-410A) ^(e)			
Circuit 1	3.5	4.6	5.0

(a) Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect (a) Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Certified in accordance with the Unitary Air-Conditioner Equipment Certification Program, which is based on AHRI Standard 210/240.
(b) EER is rated at AHRI conditions and in accordance with AHRI Standard 210/240.
(c) Seasonal Energy Efficiency Ratio (SEER) is rated in accordance with AHRI Standard 210/240.
(d) Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.
(e) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.



Performance Data

								1	Ambier	nt Tem	peratu	re (°F))						
				8	5					9	5					10)5		
Air	Ent								Enter	ring W	et Bulk) (°F)							
Flow	DB	6	1	6	7	7	3	6	1	6	7	7	3	6	1	6	7	7	3
cfm	(°F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
960	75	33.5	26.9	37.9	21.3	42.1	14.5	31.5	25.9	35.6	20.3	39.2	14.1	29.4	24.8	33.1	19.2	35.9	12.8
	80	33.6	31.2	37.9	26.2	42.1	20.2	31.6	29.6	35.6	25.2	39.2	19.0	29.7	29.3	33.2	24.0	36.0	17.7
	85	34.7	34.7	37.9	31.1	42.2	25.1	33.1	33.1	35.6	30.0	39.3	23.9	31.3	31.3	33.2	28.8	35.9	22.6
	90	36.9	36.9	38.0	35.5	42.2	30.0	35.0	35.0	35.8	34.2	39.3	28.8	33.1	33.1	33.4	33.2	36.0	27.5
1080	75	34.3	28.6	38.7	22.4	42.7	15.5	32.2	27.6	36.3	21.3	39.6	14.3	30.1	26.5	33.7	20.1	36.3	13.0
	80	34.5	32.5	38.7	27.8	42.8	21.0	32.5	32.2	36.3	26.7	39.6	19.8	30.6	30.6	33.7	25.5	36.4	18.5
	85	36.3	36.3	38.7	33.1	42.8	26.5	34.4	34.4	36.4	32.1	39.7	25.2	32.5	32.5	33.8	30.6	36.4	24.0
	90	38.3	38.3	38.9	38.0	42.8	31.9	36.5	36.5	36.7	36.7	39.7	30.7	34.2	34.2	34.3	34.3	36.5	29.4
1200	75	34.9	30.3	39.4	23.3	43.2	15.7	32.8	29.2	36.9	22.2	39.9	14.4	30.6	27.9	34.1	21.0	36.6	13.2
	80	35.3	35.3	39.4	29.3	43.2	21.8	33.5	33.5	36.9	28.2	40.0	20.5	31.5	31.5	34.2	27.0	36.7	19.2
	85	37.5	37.5	39.4	35.2	43.3	27.8	35.6	35.6	37.0	33.9	40.0	26.5	33.5	33.5	34.3	32.0	36.7	25.3
	90	39.7	39.7	39.8	39.8	43.3	33.8	37.6	37.6	37.7	37.7	41.0	32.9	35.2	35.2	35.2	35.2	36.8	31.2
1320	75	35.5	31.9	39.9	24.3	43.5	15.9	33.4	30.4	37.3	23.1	40.2	14.6	31.1	29.2	34.4	21.8	36.8	13.3
	80	36.4	36.4	40.0	30.8	43.5	22.5	34.4	34.4	37.4	29.6	40.3	21.3	32.3	32.3	34.5	28.3	36.9	19.9
	85	38.6	38.6	40.0	36.4	43.6	29.1	36.6	36.6	37.5	35.3	40.4	27.8	34.2	34.2	34.6	34.6	36.9	26.5
	90	40.8	40.8	40.9	40.9	43.7	35.6	38.5	38.5	38.6	38.6	40.4	34.3	35.7	35.7	35.7	35.7	37.0	32.9
1080	75	36.0	33.1	40.4	25.1	43.7	16.1	33.9	31.7	37.7	23.9	40.5	14.8	31.3	29.2	34.7	22.7	36.9	13.5
	80	37.2	37.2	40.4	32.2	43.8	23.2	35.2	35.2	37.7	30.9	40.6	22.0	33.0	33.0	34.7	29.6	37.0	20.6
	85	39.6	39.6	40.6	38.2	43.9	30.3	37.4	37.4	37.9	37.2	40.7	29.1	34.9	34.9	34.9	34.9	37.1	27.7
	90	41.6	41.6	41.8	41.8	43.9	37.2	39.2	39.2	39.3	39.3	40.7	35.9	36.2	36.2	36.3	36.3	37.2	33.5
					1 5	1		4	ambiei	nt Tem	peratu	re (°F))	1	1	11		1	
Air	Ent			•	15				Entor		20 at Bulk	(°E)				14	20		
Flow	DB	6	1	6	7	7	2	6		111g VV	7	7	2	6	1	6	7	7	2
cfm	(°E)	MBb	SHUC	MBb	SHC	/ MBb	รมก	MBb	SHC	MBb	, גוור	/ MBb	SUC	MBh	SHC	MBb	, shu	, MBP	SHC
960	75	27.2	23.7	30.4	17.9	32.5	11 5	25.9	23.1	28.9	17.3	30.6	10.8	24.6	22.1	27.2	16.6	28.5	10.0
700	80	27.2	27.6	30.5	22.9	32.5	16.4	26.5	26.5	20.7	22.2	32.0	16.0	24.0	25.1	27.2	21.5	28.5	14.9
	85	27.0	27.0	30.5	22.7	32.0	21.4	20.5	20.5	20.7	26.4	30.7	20.6	26.9	26.9	27.3	21.3	20.5	19.9
	90	30.8	27.5	30.9	30.9	32.0	21.4	20.2	20.2	29.5	20.4	30.7	25.8	20.7	20.7	27.5	23.2	30.6	24.4
1080	75	27.6	25.1	30.8	18.8	32.7	11.6	26.3	24.2	29.1	18.1	30.7	10.9	25.0	23.0	27.3	17.4	28.4	10.0
	80	28.5	28.5	30.8	24.3	32.8	17.1	27.4	27.4	29.2	23.9	32.6	17.0	26.2	26.2	27.4	22.7	28.5	15.5
	85	30.2	30.2	30.9	29.1	34.0	23.1	28.9	28.9	29.3	29.3	30.8	21.9	27.4	27.4	27.5	27.5	28.6	21.1
	90	31.6	31.6	31.6	31.6	32.9	27.8	30.1	30.1	30.1	30.1	32.6	25.8	28.4	28.4	28.4	28.4	28.6	22.9
1200	75	28.0	25.7	31.0	19.7	32.8	11.7	26.7	26.7	29.3	18.9	30.6	11.0	25.3	25.3	27.4	18.2	28.2	10.1
	80	29.3	29.3	31.1	25.6	32.9	17.8	28.1	28.1	29.4	24.7	30.7	17.0	26.7	26.7	27.5	23.3	28.4	16.2
	85	31.0	31.0	31.2	31.2	34.5	24.4	29.4	29.4	29.4	29.4	30.8	23.1	27.8	27.8	27.8	27.8	28.5	22.2
	90	32.2	32.2	32.2	32.2	33.0	29.5	30.5	30.5	30.5	30.5	30.9	28.5	28.5	28.5	30.2	30.2	28.5	28.5
1320	75	28.3	28.3	31.2	20.5	34.9	12.6	27.0	27.0	29.4	19.7	30.6	11.1	25.6	25.6	27.5	18.9	28.1	10.2
	80	29.9	29.9	31.3	26.9	32.9	18.5	28.6	28.6	29.4	25.8	30.7	17.7	27.1	27.1	27.6	24.1	32.0	18.0
	85	31.4	31.4	31.4	31.4	35.0	25.7	29.8	29.8	29.8	29.8	30.8	24.2	28.1	28.1	28.1	28.1	28.3	23.3
	90	32.6	32.6	33.4	33.4	33.1	30.8	30.7	30.7	32.1	32.1	33.6	30.8	28.3	28.3	31.2	31.2	28.2	28.2
1080	75	28.7	28.7	31.3	21.2	35.3	12.8	27.4	27.4	29.4	20.5	30.5	11.1	26.0	26.0	27.5	19.7	27.9	10.2
	80	30.4	30.4	31.4	28.0	32.9	19.1	29.0	29.0	29.5	27.1	30.6	18.3	27.2	27.2	27.6	25.3	32.3	18.7
	85	31.7	31.7	31.8	31.8	35.4	27.0	30.1	30.1	30.1	30.1	33.8	26.3	28.2	28.2	28.2	28.2	28.2	24.4
	90	32.9	32.9	32.9	32.9	33.0	33.0	33.1	33.1	33.2	33.2	33.9	33.9	31.9	31.9	32.0	32.0	32.5	31.9
Notes:		1		1	1	1	1	1	1	1		1	1	1	1	1		1	1

Gross cooling capacities 3 tons - EBC036AD Table 2.

All capacities shown are gross and have not considered indoor fan heat. To obtain NET cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
 MBh = Total Gross Capacity
 SHC = Sensible Heat Capacity



									Aml	pient T	empe	rature	(°F)						
				8	5					9	5					10	05		
Air	Ent								Er	ntering	g Wet I	Bulb (°	F)						
Flow	DB	6	1	6	7	7	3	6	1	6	7	7	3	6	1	6	7	7	3
cfm	(°F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1280	75	45.5	36.8	51.1	28.8	56.8	19.4	42.7	35.2	47.8	27.2	52.9	18.8	39.6	33.6	44.3	25.6	48.8	17.0
	80	45.6	42.3	51.7	35.8	56.9	27.3	42.9	41.6	47.9	34.0	53.1	25.7	39.9	39.4	44.4	32.4	48.9	23.9
	85	47.3	47.3	51.7	42.5	57.0	34.1	45.0	45.0	47.9	40.7	53.2	32.5	42.4	42.4	44.5	39.1	49.0	30.8
	90	50.2	50.2	51.8	48.1	57.1	41.0	47.3	47.3	48.1	47.0	53.3	39.3	44.6	44.6	44.7	44.7	49.2	37.6
1440	75	46.5	39.1	52.2	30.2	57.8	20.8	43.6	37.6	48.7	28.6	53.7	19.0	40.4	35.8	45.0	26.9	49.2	17.2
	80	46.7	46.1	52.3	37.8	57.9	28.5	43.9	43.9	48.8	36.2	53.8	26.8	41.2	41.2	45.1	34.4	49.4	24.9
	85	49.4	49.4	52.3	45.3	58.0	36.2	46.8	46.8	48.9	43.5	53.9	34.4	43.6	43.6	45.2	41.0	49.5	32.6
	90	52.0	52.0	52.5	52.2	58.1	43.8	49.2	49.2	49.3	49.3	54.1	42.0	46.2	46.2	46.3	46.3	49.7	40.2
1600	75	47.4	41.4	53.1	31.6	58.6	21.1	44.4	39.7	49.4	29.9	54.2	19.3	40.9	36.8	45.5	28.1	49.5	17.4
	80	48.0	48.0	53.2	40.0	58.7	29.6	45.3	45.3	49.5	38.2	54.4	27.8	42.5	42.5	45.6	36.4	49.7	26.0
	85	51.2	51.2	53.2	47.6	58.8	38.1	47.9	47.9	49.6	44.5	54.5	36.3	44.8	44.8	45.7	44.2	49.9	34.4
	90	53.8	53.8	53.9	53.9	58.9	46.5	50.8	50.8	50.9	50.9	54.7	44.7	47.5	47.5	47.5	47.5	50.1	42.8
1760	75	48.0	43.0	53.8	32.9	59.2	21.4	44.9	41.2	49.9	31.1	54.6	19.5	41.3	39.7	45.8	29.3	49.7	17.6
	80	49.4	49.4	53.9	42.0	59.3	30.8	46.6	46.6	50.0	40.2	54.8	28.9	43.1	43.1	45.9	38.4	49.9	27.0
	85	52.3	52.3	53.9	50.6	59.5	40.0	49.2	49.2	50.1	48.6	55.0	38.1	45.9	45.9	46.1	46.1	50.1	36.2
	90	55.4	55.4	55.5	55.5	59.6	49.2	52.1	52.1	52.2	52.2	55.1	47.3	48.5	48.5	48.5	48.5	50.3	44.8
1920	75	48.9	43.9	54.4	34.2	59.6	21.7	45.4	43.5	50.3	32.3	54.9	19.8	41.2	41.2	46.1	30.4	49.8	17.8
	80	50.7	50.7	54.4	44.1	59.8	31.9	47.2	47.2	50.4	42.2	55.1	29.9	43.9	43.9	46.2	40.0	50.0	27.9
	85	53.6	53.6	54.5	53.1	60.0	41.9	50.3	50.3	50.5	50.5	55.3	39.9	46.7	46.7	46.8	46.8	50.3	37.9
	90	56.7	56.7	56.8	56.8	60.1	51.8	53.2	53.2	53.3	53.3	55.5	49.3	49.3	49.3	49.3	49.3	50.4	47.2
									Amb	pient T	empe	rature	(°F)						
				1'	15				Aml	Dient T	empe 20	rature	(°F)			12	25		
Air	Ent			1'	15				Aml Er	bient 1 12 ntering	empe 20 g Wet I	rature Bulb (°	(°F) F)			12	25		
Air Flow	Ent DB	6	1	1 [.]	15 7	7	3	6	Aml Er 1	bient 1 12 ntering 6	empe 20 g Wet 7	rature Bulb (° 7	(°F) F) 3	6	1	12	25	7	3
Air Flow cfm	Ent DB (°F)	6 MBh	1 SHC	1 ⁻ 6 MBh	15 7 SHC	7 MBh	3 SHC	6 MBh	Ami Er 1 SHC	bient T 12 ntering 6 MBh	empe 20 g Wet 7 SHC	rature Bulb (° 7 MBh	(°F) F) 3 SHC	6 MBh	1 SHC	12 6 MBh	25 7 SHC	7 MBh	3 SHC
Air Flow cfm 1280	Ent DB (°F) 75	6 MBh 35.9	1 SHC 31.7	1 ⁻ 6 MBh 40.4	7 SHC 23.8	7 MBh 44.0	3 SHC 15.2	6 MBh 34.0	Ami Er 1 SHC 30.6	ntering MBh 38.3	empe 20 3 Wet 7 5HC 22.9	rature Bulb (° 7 MBh 41.4	(°F) F) 3 SHC 14.1	6 MBh 32.0	1 SHC 29.2	12 6 MBh 35.9	25 7 SHC 21.9	7 MBh 38.7	3 SHC 13.1
Air Flow cfm 1280	Ent DB (°F) 75 80	6 MBh 35.9 36.6	1 SHC 31.7 36.6	1 ' 6 MBh 40.4 40.5	7 SHC 23.8 30.6	7 MBh 44.0 44.2	3 SHC 15.2 22.1	6 MBh 34.0 35.0	Ami Er 1 30.6 35.0	bient 1 12 htering 6 MBh 38.3 38.4	empe 20 3 Wet 7 3 SHC 22.9 29.6	rature Bulb (° 7 MBh 41.4 41.5	(°F) F) 3 SHC 14.1 21.0	6 MBh 32.0 33.3	1 SHC 29.2 33.3	12 6 MBh 35.9 36.0	7 SHC 21.9 28.6	7 MBh 38.7 38.8	3 SHC 13.1 20.0
Air Flow cfm 1280	Ent DB (°F) 75 80 85	6 MBh 35.9 36.6 39.1	1 SHC 31.7 36.6 39.1	6 MBh 40.4 40.5 40.6	7 SHC 23.8 30.6 37.0	7 MBh 44.0 44.2 44.4	3 SHC 15.2 22.1 28.9	6 MBh 34.0 35.0 37.4	Ami Er 1 30.6 35.0 37.4	2010 12 12 12 12 12 12 12 12 12 12 12 12 12	empe 20 7 Wet 7 22.9 29.6 35.3	rature Bulb (° 7 MBh 41.4 41.5 41.7	(°F) F) 3 SHC 14.1 21.0 27.9	6 MBh 32.0 33.3 35.6	1 SHC 29.2 33.3 35.6	12 6 MBh 35.9 36.0 36.2	25 7 SHC 21.9 28.6 34.9	7 MBh 38.7 38.8 39.0	3 SHC 13.1 20.0 26.8
Air Flow cfm 1280	Ent DB (°F) 75 80 85 85	6 MBh 35.9 36.6 39.1 41.4	1 SHC 31.7 36.6 39.1 41.4	1 6 MBh 40.4 40.5 40.6 41.5	7 SHC 23.8 30.6 37.0 41.5	7 MBh 44.0 44.2 44.4 44.5	3 SHC 15.2 22.1 28.9 35.7	6 MBh 34.0 35.0 37.4 39.6	Ami Er 1 30.6 35.0 37.4 39.6	bient 1 12 htering 6 MBh 38.3 38.4 38.5 38.5 39.7	Temper 20 3 7 SHC 22.9 29.6 35.3 39.7	rature Bulb (° 7 MBh 41.4 41.5 41.7 41.9	(°F) F) 3 SHC 14.1 21.0 27.9 34.6	6 MBh 32.0 33.3 35.6 37.5	1 SHC 29.2 33.3 35.6 37.5	12 6 MBh 35.9 36.0 36.2 37.6	25 7 21.9 28.6 34.9 37.6	7 MBh 38.7 38.8 39.0 39.1	3 SHC 13.1 20.0 26.8 33.6
Air Flow cfm 1280 1440	Ent DB (°F) 75 80 85 90 75	6 MBh 35.9 36.6 39.1 41.4 36.4	1 SHC 31.7 36.6 39.1 41.4 33.0	6 MBh 40.4 40.5 40.6 41.5 40.9	7 3HC 23.8 30.6 37.0 41.5 25.0	7 MBh 44.0 44.2 44.4 44.5 44.2	3 SHC 15.2 22.1 28.9 35.7 15.3	6 MBh 34.0 35.0 37.4 39.6 34.4	Ami Er 1 30.6 35.0 37.4 39.6 32.6	bient 1 12 ntering 6 MBh 38.3 38.4 38.5 39.7 38.6	SHC 22.9 29.6 35.3 39.7 24.1	rature Bulb (° 7 MBh 41.4 41.5 41.7 41.9 41.5	(°F) 3 SHC 14.1 21.0 27.9 34.6 14.2	6 MBh 32.0 33.3 35.6 37.5 32.3	1 SHC 29.2 33.3 35.6 37.5 31.5	12 6 MBh 35.9 36.0 36.2 37.6 36.1	7 SHC 21.9 28.6 34.9 37.6 22.9	7 MBh 38.7 38.8 39.0 39.1 38.7	3 SHC 13.1 20.0 26.8 33.6 13.1
Air Flow cfm 1280 	Ent DB (°F) 75 80 85 85 90 75 80	6 MBh 35.9 36.6 39.1 41.4 36.4 37.8	1 SHC 31.7 36.6 39.1 41.4 33.0 37.8	1 6 MBh 40.4 40.5 40.6 41.5 40.9 41.0	7 3HC 23.8 30.6 37.0 41.5 25.0 32.5	7 MBh 44.0 44.2 44.4 44.5 44.2 44.4	3 SHC 15.2 22.1 28.9 35.7 15.3 23.0	6 MBh 34.0 35.0 37.4 39.6 34.4 36.1	Ami Er 1 30.6 35.0 37.4 39.6 32.6 36.1	bient 1 12 ntering 6 MBh 38.3 38.4 38.5 39.7 38.6 38.7	SHC 22.9 29.6 35.3 39.7 24.1 31.5	rature Bulb (° 7 MBh 41.4 41.5 41.7 41.9 41.5 41.7	(°F) F) 3 SHC 14.1 21.0 27.9 34.6 14.2 22.0	6 MBh 32.0 33.3 35.6 37.5 32.3 34.2	1 SHC 29.2 33.3 35.6 37.5 31.5 34.2	12 6 MBh 35.9 36.0 36.2 37.6 36.1 36.3	7 SHC 21.9 28.6 34.9 37.6 22.9 30.5	7 MBh 38.7 38.8 39.0 39.1 38.7 38.7 38.9	3 SHC 13.1 20.0 26.8 33.6 13.1 20.9
Air Flow cfm 1280 	Ent DB (°F) 75 80 85 90 75 80 85	6 MBh 35.9 36.6 39.1 41.4 36.4 37.8 40.3	1 SHC 31.7 36.6 39.1 41.4 33.0 37.8 40.3	1 6 MBh 40.4 40.5 40.6 41.5 40.9 41.0 41.1	7 SHC 23.8 30.6 37.0 41.5 25.0 32.5 39.6	7 MBh 44.0 44.2 44.4 44.5 44.2 44.4 44.6	3 SHC 15.2 22.1 28.9 35.7 15.3 23.0 30.7	6 MBh 34.0 35.0 37.4 39.6 34.4 36.1 38.5	Ami Er 1 30.6 35.0 37.4 39.6 32.6 36.1 38.5	bient 1 12 ntering 6 MBh 38.3 38.4 38.5 39.7 38.6 38.7 38.8	emperation 20 9 Wet 7 SHC 22.9 29.6 35.3 39.7 24.1 31.5 38.5	rature Bulb (° 7 MBh 41.4 41.5 41.7 41.9 41.5 41.7 41.9	(°F) 3 SHC 14.1 21.0 27.9 34.6 14.2 22.0 29.6	6 MBh 32.0 33.3 35.6 37.5 32.3 34.2 36.4	1 SHC 29.2 33.3 35.6 37.5 31.5 34.2 36.4	12 6 MBh 35.9 36.0 36.2 37.6 36.1 36.3 36.3	7 SHC 21.9 28.6 34.9 37.6 22.9 30.5 36.5	7 MBh 38.7 38.8 39.0 39.1 38.7 38.9 39.1	3 SHC 13.1 20.0 26.8 33.6 13.1 20.9 28.5
Air Flow cfm 1280	Ent DB (°F) 75 80 85 90 75 80 85 85 90	6 MBh 35.9 36.6 39.1 41.4 36.4 37.8 40.3 42.7	1 SHC 31.7 36.6 39.1 41.4 33.0 37.8 40.3 42.7	1 6 MBh 40.4 40.5 40.6 41.5 40.9 41.0 41.1 42.7	7 SHC 23.8 30.6 37.0 41.5 25.0 32.5 39.6 42.7	7 MBh 44.0 44.2 44.4 44.5 44.2 44.4 44.6 44.8	3 SHC 15.2 22.1 28.9 35.7 15.3 23.0 30.7 38.2	6 MBh 34.0 35.0 37.4 39.6 34.4 36.1 38.5 40.6	Ami Er 1 30.6 35.0 37.4 39.6 32.6 36.1 38.5 40.6	bient 1 12 ntering 6 MBh 38.3 38.4 38.5 39.7 38.6 38.7 38.8 40.6	emperiod 20 9 Wet 7 SHC 22.9 29.6 35.3 39.7 24.1 31.5 38.5 40.6	rature Bulb (° 7 MBh 41.4 41.5 41.7 41.9 41.5 41.7 41.9 41.9 42.0	(°F) 3 SHC 14.1 21.0 27.9 34.6 14.2 22.0 29.6 37.0	6 MBh 32.0 33.3 35.6 37.5 32.3 34.2 36.4 38.2	1 SHC 29.2 33.3 35.6 37.5 31.5 34.2 36.4 38.2	12 6 MBh 35.9 36.0 36.2 37.6 36.1 36.3 36.5 38.2	7 SHC 21.9 28.6 34.9 37.6 22.9 30.5 36.5 38.2	7 MBh 38.7 38.8 39.0 39.1 38.7 38.9 39.1 39.2	3 SHC 13.1 20.0 26.8 33.6 13.1 20.9 28.5 35.2
Air Flow cfm 1280 1440 1600	Ent DB (°F) 75 80 85 90 75 80 85 80 85 90 90	6 MBh 35.9 36.6 39.1 41.4 36.4 37.8 40.3 42.7 36.7	1 31.7 36.6 39.1 41.4 33.0 37.8 40.3 42.7 35.5	6 MBh 40.4 40.5 40.6 41.5 40.9 41.0 41.1 42.7 41.2	7 SHC 23.8 30.6 37.0 41.5 25.0 32.5 39.6 42.7 26.2	7 MBh 44.0 44.2 44.4 44.5 44.2 44.4 44.6 44.8 44.3	3 SHC 15.2 22.1 28.9 35.7 15.3 23.0 30.7 38.2 15.4	6 MBh 34.0 35.0 37.4 39.6 34.4 36.1 38.5 40.6 34.6	Ami Er 30.6 35.0 37.4 39.6 32.6 36.1 38.5 40.6 34.4	bient 1 12 ntering MBh 38.3 38.4 38.5 39.7 38.6 38.7 38.8 40.6 38.8	emperation 20 3 22.9 29.6 35.3 39.7 24.1 31.5 38.5 40.6 25.1	rature Bulb (° 7 MBh 41.4 41.5 41.7 41.9 41.5 41.7 41.9 42.0 41.6	(°F) 3 SHC 14.1 21.0 27.9 34.6 14.2 22.0 29.6 37.0 14.3	6 MBh 32.0 33.3 35.6 37.5 32.3 34.2 36.4 38.2 32.5	SHC 29.2 33.3 35.6 37.5 31.5 34.2 36.4 38.2 32.5	12 6 MBh 35.9 36.0 36.2 37.6 36.1 36.3 36.5 38.2 36.2	7 3HC 21.9 28.6 34.9 37.6 22.9 30.5 36.5 38.2 24.0	7 MBh 38.7 38.8 39.0 39.1 38.7 38.9 39.1 39.2 38.6	3 SHC 13.1 20.0 26.8 33.6 13.1 20.9 28.5 35.2 13.2
Air Flow cfm 1280 1440 1600	Ent DB (°F) 75 80 85 90 75 80 85 80 85 90 75 80 85 80	6 MBh 35.9 36.6 39.1 41.4 36.4 37.8 40.3 42.7 36.7 38.8	1 SHC 31.7 36.6 39.1 41.4 33.0 37.8 40.3 42.7 35.5 38.8	6 MBh 40.4 40.5 40.6 41.5 40.9 41.0 41.1 42.7 41.2 41.3	7 SHC 23.8 30.6 37.0 41.5 25.0 32.5 39.6 42.7 26.2 34.5	7 MBh 44.0 44.2 44.4 44.5 44.2 44.4 44.6 44.8 44.3 44.5	3 SHC 15.2 22.1 28.9 35.7 15.3 23.0 30.7 38.2 15.4 23.9	6 MBh 34.0 35.0 37.4 39.6 34.4 36.1 38.5 40.6 34.6 37.0	Ami Er 30.6 35.0 37.4 39.6 32.6 36.1 38.5 40.6 34.4 37.0	bient 1 12 12 12 14 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	emperation 20 3 22.9 29.6 35.3 39.7 24.1 31.5 38.5 40.6 25.1 33.4	rature Bulb (° 7 MBh 41.4 41.5 41.7 41.9 41.5 41.7 41.9 42.0 41.6 41.8	(°F) 3 SHC 14.1 21.0 27.9 34.6 14.2 22.0 29.6 37.0 14.3 22.9	6 MBh 32.0 33.3 35.6 37.5 32.3 34.2 36.4 38.2 32.5 34.9	1 SHC 29.2 33.3 35.6 37.5 31.5 34.2 36.4 38.2 32.5 34.9	6 MBh 35.9 36.0 36.2 37.6 36.1 36.3 36.5 38.2 36.2 36.2	7 SHC 21.9 28.6 34.9 37.6 22.9 30.5 36.5 38.2 24.0 31.8	7 MBh 38.7 38.8 39.0 39.1 38.7 38.9 39.1 39.2 38.6 38.9	3 SHC 13.1 20.0 26.8 33.6 13.1 20.9 28.5 35.2 13.2 21.8
Air Flow cfm 1280 1440 1600	Ent DB (°F) 75 80 85 90 75 80 85 80 85 90 75 80 85 80 85	6 MBh 35.9 36.6 39.1 41.4 36.4 37.8 40.3 42.7 36.7 38.8 41.3	1 31.7 36.6 39.1 41.4 33.0 37.8 40.3 42.7 35.5 38.8 41.3	6 MBh 40.4 40.5 40.6 41.5 40.9 41.0 41.1 42.7 41.2 41.3 41.4	7 SHC 23.8 30.6 37.0 41.5 25.0 32.5 39.6 42.7 26.2 34.5 41.4	7 MBh 44.0 44.2 44.4 44.5 44.2 44.4 44.6 44.8 44.3 44.5 44.7	3 5HC 15.2 22.1 28.9 35.7 15.3 23.0 30.7 38.2 15.4 23.9 32.4	6 MBh 34.0 35.0 37.4 39.6 34.4 36.1 38.5 40.6 34.6 37.0 39.3	Ami Er 30.6 35.0 37.4 39.6 32.6 36.1 38.5 40.6 34.4 37.0 39.3	bient 1 12 12 12 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	emperation 20 2 3 22.9 29.6 35.3 39.7 24.1 31.5 38.5 40.6 25.1 33.4 39.4	Fraction Bulb (° 7 MBh 41.4 41.5 41.7 41.9 41.5 41.7 41.9 41.6 41.8 42.0	(°F) 3 SHC 14.1 21.0 27.9 34.6 14.2 22.0 29.6 37.0 14.3 22.9 31.3	6 MBh 32.0 33.3 35.6 37.5 32.3 34.2 36.4 38.2 32.5 34.9 37.0	1 SHC 29.2 33.3 35.6 37.5 31.5 34.2 36.4 38.2 32.5 34.9 37.0	6 MBh 35.9 36.0 36.2 37.6 36.1 36.3 36.5 38.2 36.3 37.1	7 SHC 21.9 28.6 34.9 37.6 22.9 30.5 36.5 38.2 24.0 31.8 37.1	7 MBh 38.7 38.8 39.0 39.1 38.7 38.9 39.1 39.2 38.6 38.9 39.1	3 SHC 13.1 20.0 26.8 33.6 13.1 20.9 28.5 35.2 13.2 21.8 30.1
Air Flow cfm 1280 1440 1600	Ent DB (°F) 75 80 85 90 75 80 85 80 85 90 75 80 85 90 75 80 85 90	6 MBh 35.9 36.6 39.1 41.4 36.4 37.8 40.3 42.7 36.7 38.8 41.3 43.5	1 SHC 31.7 36.6 39.1 41.4 33.0 37.8 40.3 42.7 35.5 38.8 41.3 43.5	6 MBh 40.4 40.5 40.6 41.5 40.9 41.0 41.1 42.7 41.2 41.3 41.4 43.6	7 SHC 23.8 30.6 37.0 41.5 25.0 32.5 39.6 42.7 26.2 34.5 41.4 43.6	7 MBh 44.0 44.2 44.4 44.5 44.2 44.4 44.6 44.8 44.3 44.5 44.5 44.7 44.9	3 5HC 15.2 22.1 28.9 35.7 15.3 23.0 30.7 38.2 15.4 23.9 32.4 40.1	6 MBh 34.0 35.0 37.4 39.6 34.4 36.1 38.5 40.6 34.6 37.0 39.3 41.2	Ami Er 30.6 35.0 37.4 39.6 32.6 36.1 38.5 40.6 34.4 37.0 39.3 41.2	bient 1 12 ntering 6 MBh 38.3 38.4 38.5 39.7 38.6 38.7 38.8 40.6 38.8 38.9 39.4 41.2	emperation 20 2 3 22.9 29.6 35.3 39.7 24.1 31.5 38.5 40.6 25.1 33.4 39.4 41.2	Fraction Bulb (° 7 MBh 41.4 41.5 41.7 41.9 41.5 41.7 41.9 41.6 41.8 42.0 42.1	(°F) 3 SHC 14.1 21.0 27.9 34.6 14.2 22.0 29.6 37.0 14.3 22.9 31.3 39.2	6 MBh 32.0 33.3 35.6 37.5 32.3 34.2 36.4 38.2 32.5 34.9 37.0 38.7	1 SHC 29.2 33.3 35.6 37.5 31.5 34.2 36.4 38.2 32.5 34.9 37.0 38.7	6 MBh 35.9 36.0 36.2 37.6 36.1 36.3 36.5 38.2 36.3 37.1 38.7	7 SHC 21.9 28.6 34.9 37.6 22.9 30.5 36.5 38.2 24.0 31.8 37.1 38.7	7 MBh 38.7 38.8 39.0 39.1 38.7 38.9 39.1 39.2 38.6 38.9 39.1 39.1	3 SHC 13.1 20.0 26.8 33.6 13.1 20.9 28.5 35.2 13.2 21.8 30.1 38.0
Air Flow cfm 1280 1440 1600 1600	Ent DB (°F) 75 80 85 90 75 80 85 90 75 80 75 80 85 90 75 80 85 90 75	6 MBh 35.9 36.6 39.1 41.4 36.4 37.8 40.3 42.7 36.7 38.8 41.3 43.5 36.9	1 SHC 31.7 36.6 39.1 41.4 33.0 37.8 40.3 42.7 35.5 38.8 41.3 43.5 36.9	6 MBh 40.4 40.5 40.6 41.5 40.9 41.0 41.1 42.7 41.2 41.3 41.4	7 SHC 23.8 30.6 37.0 41.5 25.0 32.5 39.6 42.7 26.2 34.5 41.4 43.6 27.3	7 MBh 44.0 44.2 44.4 44.5 44.2 44.4 44.6 44.8 44.3 44.3 44.5 44.7 44.9 44.4	3 5HC 15.2 22.1 28.9 35.7 15.3 23.0 30.7 38.2 15.4 23.9 32.4 40.1 15.5	6 MBh 34.0 35.0 37.4 39.6 34.4 36.1 38.5 40.6 34.6 34.6 37.0 39.3 41.2 35.0	Ami Er 30.6 35.0 37.4 39.6 32.6 36.1 38.5 40.6 34.4 37.0 39.3 41.2 35.0	bient 1 12 ntering 6 MBh 38.3 38.4 38.5 39.7 38.6 38.7 38.8 40.6 38.8 38.9 39.4 41.2 38.9	emperation 20 2 3 22.9 29.6 35.3 39.7 24.1 31.5 38.5 40.6 25.1 33.4 39.4 41.2 26.1	Fraction Bulb (° 7 MBh 41.4 41.5 41.7 41.7 41.7 41.7 41.7 41.7 41.8 42.0 42.1 41.8 42.0 42.1 41.6	(°F) 3 SHC 14.1 21.0 27.9 34.6 14.2 22.0 29.6 37.0 14.3 22.9 31.3 39.2 14.4	6 MBh 32.0 33.3 35.6 37.5 32.3 34.2 36.4 38.2 32.5 34.9 37.0 38.7 33.0	SHC 29.2 33.3 35.6 37.5 31.5 34.2 36.4 38.2 32.5 34.9 37.0 38.7 33.0	12 6 MBh 35.9 36.0 36.2 37.6 36.1 36.3 36.2 36.3 36.2 36.3 37.1 38.7 36.2	7 SHC 21.9 28.6 34.9 37.6 22.9 30.5 36.5 38.2 24.0 31.8 37.1 38.7 25.0	7 MBh 38.7 38.8 39.0 39.1 38.7 38.9 39.1 39.2 38.6 38.9 39.1 39.1 39.1 38.5	3 SHC 13.1 20.0 26.8 33.6 13.1 20.9 28.5 35.2 13.2 21.8 30.1 38.0 13.3
Air Flow cfm 1280 1440 1600 1760	Ent DB (°F) 75 80 85 90 75 80 85 90 75 80 75 80 85 90 75 80 90 75 80 85 90	6 MBh 35.9 36.6 39.1 41.4 36.4 37.8 40.3 42.7 36.7 38.8 41.3 43.5 36.9 39.6	1 31.7 36.6 39.1 41.4 33.0 37.8 40.3 42.7 35.5 38.8 41.3 43.5 36.9 39.6	6 MBh 40.4 40.5 40.6 41.5 40.9 41.0 41.1 42.7 41.3 41.4 43.6 41.3 41.5	7 3HC 23.8 30.6 37.0 41.5 25.0 32.5 39.6 42.7 26.2 34.5 41.4 43.6 27.3 36.1	7 MBh 44.0 44.2 44.4 44.5 44.2 44.4 44.6 44.8 44.3 44.5 44.7 44.9 44.4 44.5	3 SHC 15.2 22.1 28.9 35.7 15.3 23.0 30.7 38.2 15.4 23.9 32.4 40.1 15.5 24.9	6 MBh 34.0 35.0 37.4 39.6 34.4 36.1 38.5 40.6 34.6 34.6 37.0 39.3 41.2 35.0 37.6	Ami Er 30.6 35.0 37.4 39.6 32.6 36.1 38.5 40.6 34.4 37.0 39.3 41.2 35.0 37.6	bient 1 12 ntering 6 MBh 38.3 38.4 38.5 39.7 38.6 38.7 38.8 40.6 38.8 38.9 38.9 39.4 41.2 38.9 39.0	emperiod 20 9 Wet 1 7 22.9 29.6 35.3 39.7 24.1 31.5 38.5 40.6 25.1 33.4 39.4 41.2 26.1 34.1	Frature Bulb (° 7 MBh 41.4 41.5 41.7 41.9 41.7 41.9 41.7 41.9 42.0 41.8 42.0 42.1 41.6 41.8	(°F) 3 5HC 14.1 21.0 27.9 34.6 14.2 22.0 29.6 37.0 14.3 22.9 31.3 39.2 14.4 23.8	6 MBh 32.0 33.3 35.6 37.5 32.3 34.2 36.4 38.2 32.5 34.9 37.0 38.7 33.0 35.4	SHC 29.2 33.3 35.6 37.5 31.5 34.2 36.4 38.2 32.5 34.9 37.0 38.7 33.0 35.4	12 6 MBh 35.9 36.0 36.2 37.6 36.1 36.3 36.5 38.2 36.3 37.1 38.7 36.2 36.3	7 3HC 21.9 28.6 34.9 37.6 22.9 30.5 36.5 38.2 24.0 31.8 37.1 38.7 25.0 33.7	7 MBh 38.7 38.8 39.0 39.1 38.7 38.7 39.1 39.2 38.6 38.9 39.1 39.1 39.1 38.5 38.8	3 SHC 13.1 20.0 26.8 33.6 13.1 20.9 28.5 35.2 13.2 21.8 30.1 38.0 13.3 22.6
Air Flow cfm 1280 1440 1600 1760	Ent DB (°F) 75 80 85 90 75 80 85 90 75 80 75 80 85 90 75 80 85 90 75 80 85	6 MBh 35.9 36.6 39.1 41.4 36.4 37.8 40.3 42.7 36.7 38.8 41.3 43.5 36.9 39.6 42.1	1 31.7 36.6 39.1 41.4 33.0 37.8 40.3 42.7 35.5 38.8 41.3 43.5 36.9 39.6 42.1	6 MBh 40.4 40.5 40.6 41.5 40.9 41.0 41.1 42.7 41.3 41.4 43.6 41.3 41.5	7 3HC 23.8 30.6 37.0 41.5 25.0 32.5 39.6 42.7 26.2 34.5 41.4 43.6 27.3 36.1 42.1	7 MBh 44.0 44.2 44.4 44.5 44.2 44.4 44.6 44.8 44.3 44.5 44.7 44.9 44.4 44.5 44.8	3 SHC 15.2 22.1 28.9 35.7 15.3 23.0 30.7 38.2 15.4 23.9 32.4 40.1 15.5 24.9 34.1	6 MBh 34.0 35.0 37.4 39.6 34.4 36.1 38.5 40.6 34.6 34.6 37.0 39.3 41.2 35.0 37.6 39.9	Ami Er 30.6 35.0 37.4 39.6 32.6 36.1 38.5 40.6 34.4 37.0 39.3 41.2 35.0 37.6 39.9	bient 1 12 ntering 6 MBh 38.3 38.4 38.5 39.7 38.6 38.7 38.6 38.7 38.8 40.6 38.8 38.9 39.4 41.2 38.9 39.4 41.2 38.9 39.0 39.0 39.9	emperiod 20 9 Wet 1 7 22.9 29.6 35.3 39.7 24.1 31.5 38.5 40.6 25.1 33.4 39.4 41.2 26.1 34.1 39.9	Frature Bulb (° 7 MBh 41.4 41.5 41.7 41.9 41.7 41.9 41.6 41.8 42.0 42.1 41.6 42.1 41.6 42.1	(°F) 3 5HC 14.1 21.0 27.9 34.6 14.2 22.0 29.6 37.0 14.3 22.9 31.3 39.2 14.4 23.8 33.0	6 MBh 32.0 33.3 35.6 37.5 32.3 34.2 36.4 38.2 32.5 34.9 37.0 38.7 33.0 35.4 37.4	SHC 29.2 33.3 35.6 37.5 31.5 34.2 36.4 38.2 32.5 34.9 37.0 38.7 33.0 35.4 37.4	12 6 MBh 35.9 36.0 36.2 37.6 36.1 36.3 36.5 38.2 36.3 37.1 38.7 36.2 36.3 37.1 38.7 36.3 37.4	7 3HC 21.9 28.6 34.9 37.6 22.9 30.5 36.5 38.2 24.0 31.8 37.1 38.7 25.0 33.7 37.4	7 MBh 38.7 38.8 39.0 39.1 38.7 38.7 39.1 39.2 38.6 38.9 39.1 39.1 39.1 38.5 38.8 39.0	3 SHC 13.1 20.0 26.8 33.6 13.1 20.9 28.5 35.2 13.2 21.8 30.1 38.0 13.3 22.6 31.8
Air Flow cfm 1280 1440 1600 1760	Ent DB (°F) 75 80 85 90 75 80 85 90 75 80 85 80 85 90 75 80 85 90 75 80 85 90 85 90	6 MBh 35.9 36.6 39.1 41.4 36.4 37.8 40.3 42.7 36.7 38.8 41.3 43.5 36.9 39.6 42.1 44.1	1 31.7 36.6 39.1 41.4 33.0 37.8 40.3 42.7 35.5 38.8 41.3 43.5 36.9 39.6 42.1	6 MBh 40.4 40.5 40.6 41.5 40.9 41.0 41.1 42.7 41.3 41.4 43.6 41.3 41.5 42.1 42.1 44.2	7 SHC 23.8 30.6 37.0 41.5 25.0 32.5 39.6 42.7 26.2 34.5 41.4 43.6 27.3 36.1 42.1 44.2	7 MBh 44.0 44.2 44.4 44.5 44.2 44.4 44.6 44.8 44.3 44.5 44.3 44.5 44.7 44.9 44.4 44.5 44.8 44.9	3 SHC 15.2 22.1 28.9 35.7 15.3 23.0 30.7 38.2 15.4 23.9 32.4 40.1 15.5 24.9 34.1 42.6	6 MBh 34.0 35.0 37.4 39.6 34.4 36.1 38.5 40.6 34.6 34.6 37.0 39.3 41.2 35.0 37.6 39.9 41.7	Ami Er 30.6 35.0 37.4 39.6 32.6 36.1 38.5 40.6 34.4 37.0 39.3 41.2 35.0 37.6 39.9 41.7	bient 1 12 ntering 6 MBh 38.3 38.4 38.5 39.7 38.6 38.7 38.6 38.7 38.8 40.6 38.8 38.9 39.4 41.2 38.9 39.0 39.0 39.9 41.7	emperiod 20 9 Wet 1 7 SHC 22.9 29.6 35.3 39.7 24.1 31.5 38.5 40.6 25.1 33.4 39.4 41.2 26.1 34.1 39.9 41.7	Frature Bulb (° 7 MBh 41.4 41.5 41.7 41.9 41.7 41.9 41.6 41.8 42.0 42.1 41.6 41.8 42.0 42.1	(°F) 3 SHC 14.1 21.0 27.9 34.6 14.2 22.0 29.6 37.0 14.3 22.9 31.3 39.2 14.4 23.8 33.0 41.4	6 MBh 32.0 33.3 35.6 37.5 32.3 34.2 36.4 38.2 32.5 34.9 37.0 38.7 33.0 35.4 37.4 39.9	SHC 29.2 33.3 35.6 37.5 31.5 34.2 36.4 38.2 32.5 34.9 37.0 38.7 33.0 35.4 37.4 39.9	12 6 MBh 35.9 36.0 36.2 37.6 36.1 36.3 36.5 38.2 36.2 36.3 37.1 38.7 36.2 36.3 37.4 40.0	7 5HC 21.9 28.6 34.9 37.6 22.9 30.5 36.5 38.2 24.0 31.8 37.1 38.7 25.0 33.7 37.4 40.0	7 MBh 38.7 38.8 39.0 39.1 38.7 38.7 38.7 38.7 38.7 38.7 39.1 39.2 38.6 38.9 39.1 39.1 39.1 38.5 38.8 39.0 40.2	3 SHC 13.1 20.0 26.8 33.6 13.1 20.9 28.5 35.2 13.2 21.8 30.1 38.0 13.3 22.6 31.8 40.2
Air Flow cfm 1280 1440 1600 1760 1760	Ent DB (°F) 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75	6 MBh 35.9 36.6 39.1 41.4 36.4 37.8 40.3 42.7 36.7 38.8 41.3 43.5 36.9 39.6 42.1 44.1 37.4	1 31.7 36.6 39.1 41.4 33.0 37.8 40.3 42.7 35.5 38.8 41.3 43.5 36.9 39.6 42.1 44.1 37.4	6 MBh 40.4 40.5 40.6 41.5 40.9 41.0 41.1 42.7 41.2 41.3 41.4 43.6 41.3 41.5 42.1 44.2 41.4	7 SHC 23.8 30.6 37.0 41.5 25.0 32.5 39.6 42.7 26.2 34.5 41.4 43.6 27.3 36.1 42.1 44.2 28.3	7 MBh 44.0 44.2 44.4 44.5 44.2 44.4 44.6 44.8 44.3 44.5 44.3 44.5 44.7 44.9 44.4 44.5 44.8 44.9 44.4	3 SHC 15.2 22.1 28.9 35.7 15.3 23.0 30.7 38.2 15.4 23.9 32.4 40.1 15.5 24.9 34.1 42.6 15.7	6 MBh 34.0 35.0 37.4 39.6 34.4 36.1 38.5 40.6 34.6 37.0 39.3 41.2 35.0 37.6 39.9 41.7 35.5	Ami Er 30.6 35.0 37.4 39.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 34.4 37.0 39.3 41.2 35.0 37.6 39.9 41.7 35.5	bient 1 12 ntering 6 MBh 38.3 38.4 38.5 39.7 38.6 38.7 38.6 38.7 38.8 40.6 38.8 38.9 39.4 41.2 38.9 39.4 41.2 38.9 39.0 39.9 41.7 38.9	emperiod 20 9 Wet 7 SHC 22.9 29.6 35.3 39.7 24.1 31.5 38.5 40.6 25.1 33.4 39.4 41.2 26.1 34.1 39.9 41.7 27.1	Frature Bulb (° 7 MBh 41.4 41.5 41.7 41.9 41.5 41.7 41.9 41.6 41.8 42.0 42.1 41.6 41.8 42.0 42.1 41.6 41.8 42.0 42.1 41.5	(°F) 3 SHC 14.1 21.0 27.9 34.6 14.2 22.0 29.6 37.0 14.3 22.9 31.3 39.2 14.4 23.8 33.0 41.4 14.6	6 MBh 32.0 33.3 35.6 37.5 32.3 34.2 36.4 38.2 32.5 34.9 37.0 38.7 33.0 35.4 37.4 39.9 33.4	SHC 29.2 33.3 35.6 37.5 31.5 34.2 36.4 38.2 32.5 34.9 37.0 38.7 33.0 35.4 37.4 39.9 33.4	12 MBh 35.9 36.0 36.2 37.6 36.1 36.3 36.5 38.2 36.2 36.3 37.1 38.7 36.2 36.3 37.1 38.7 36.2 36.3 37.4 40.0 36.1	7 5HC 21.9 28.6 34.9 37.6 22.9 30.5 36.5 38.2 24.0 31.8 37.1 38.7 25.0 33.7 37.4 40.0 26.0	7 MBh 38.7 38.8 39.0 39.1 38.7 38.9 39.1 39.2 38.6 38.9 39.1 39.1 39.1 39.1 38.5 38.8 39.0 40.2 38.3	3 SHC 13.1 20.0 26.8 33.6 13.1 20.9 28.5 35.2 13.2 21.8 30.1 38.0 13.3 22.6 31.8 40.2 13.4
Air Flow cfm 1280 1440 1600 1760 1760	Ent DB (°F) 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90	6 MBh 35.9 36.6 39.1 41.4 36.4 37.8 40.3 42.7 36.7 38.8 41.3 43.5 36.9 39.6 42.1 44.1 37.4 40.2	1 31.7 36.6 39.1 41.4 33.0 37.8 40.3 42.7 35.5 38.8 41.3 43.5 36.9 39.6 42.1 44.1 37.4 40.2	6 MBh 40.4 40.5 40.6 41.5 40.9 41.0 41.1 42.7 41.2 41.3 41.4 43.6 41.3 41.5 42.1 44.2 41.4 44.2 41.4 41.6	7 SHC 23.8 30.6 37.0 41.5 25.0 32.5 39.6 42.7 26.2 34.5 41.4 43.6 27.3 36.1 42.1 44.2 28.3 36.3	7 MBh 44.0 44.2 44.4 44.5 44.2 44.4 44.6 44.8 44.3 44.5 44.3 44.5 44.7 44.9 44.4 44.5 44.8 44.9 44.4 44.6	3 5HC 15.2 22.1 28.9 35.7 15.3 23.0 30.7 38.2 15.4 23.9 32.4 40.1 15.5 24.9 34.1 42.6 15.7 25.8	6 MBh 34.0 35.0 37.4 39.6 34.4 36.1 38.5 40.6 34.6 37.0 39.3 41.2 35.0 37.6 39.9 41.7 35.5 38.1	Ami Er 30.6 35.0 37.4 39.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 34.4 37.0 39.3 41.2 35.0 37.6 39.9 41.7 35.5 38.1	bient 1 12 ntering 6 MBh 38.3 38.4 38.5 39.7 38.6 38.7 38.6 38.7 38.8 40.6 38.8 38.9 39.4 41.2 38.9 39.4 41.2 38.9 39.0 39.9 41.7 38.9 39.0	emperiod 20 9 Wet 7 SHC 22.9 29.6 35.3 39.7 24.1 31.5 38.5 40.6 25.1 33.4 39.4 41.2 26.1 34.1 39.9 41.7 27.1 36.5	rature Bulb (° 7 MBh 41.4 41.5 41.7 41.9 41.5 41.7 41.9 42.0 41.6 41.8 42.0 42.1 41.6 41.8 42.0 42.1 41.5 41.7	(°F) 3 SHC 14.1 21.0 27.9 34.6 14.2 22.0 29.6 37.0 14.3 22.9 31.3 39.2 14.4 23.8 33.0 41.4 14.6 24.7	6 MBh 32.0 33.3 35.6 37.5 32.3 34.2 36.4 38.2 32.5 34.9 37.0 38.7 33.0 35.4 37.4 39.9 33.4 35.8	SHC 29.2 33.3 35.6 37.5 31.5 34.2 36.4 38.2 32.5 34.9 37.0 38.7 33.0 35.4 37.4 39.9 33.4 35.8	12 MBh 35.9 36.0 36.2 37.6 36.3 36.3 36.5 38.2 36.3 37.1 38.7 36.2 36.3 37.1 38.7 36.2 36.3 37.4 40.0 36.1 36.3	7 5HC 21.9 28.6 34.9 37.6 22.9 30.5 36.5 38.2 24.0 31.8 37.1 38.7 25.0 33.7 37.4 40.0 26.0 35.2	7 MBh 38.7 38.8 39.0 39.1 38.7 38.9 39.1 39.2 38.6 38.9 39.1 39.1 39.1 38.5 38.8 39.0 40.2 38.3 38.7	3 SHC 13.1 20.0 26.8 33.6 13.1 20.9 28.5 35.2 13.2 21.8 30.1 38.0 13.3 22.6 31.8 40.2 13.4 23.5
Air Flow cfm 1280 1440 1600 1760 1760	Ent DB (°F) 75 80 75 80 75 80 75 80 75 80 75 80 85 90 75 80 85 90 75 80 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 85 85 80 85 80 85 80 85 80 85 80 85 85 85 85 85 85 85 85 85 85	6 MBh 35.9 36.6 39.1 41.4 36.4 37.8 40.3 42.7 36.7 38.8 41.3 43.5 36.9 39.6 42.1 44.1 37.4 40.2 42.6	1 31.7 36.6 39.1 41.4 33.0 37.8 40.3 42.7 35.5 38.8 41.3 43.5 36.9 39.6 42.1 44.1 37.4 40.2 42.6	6 MBh 40.4 40.5 40.6 41.5 40.9 41.0 41.1 42.7 41.3 41.4 43.6 41.3 41.5 42.1 44.2 41.4 42.7	7 SHC 23.8 30.6 37.0 41.5 25.0 32.5 39.6 42.7 26.2 34.5 41.4 43.6 27.3 36.1 42.1 44.2 28.3 36.3 42.7	7 MBh 44.0 44.2 44.4 44.5 44.2 44.4 44.6 44.8 44.3 44.5 44.7 44.9 44.4 44.5 44.4 44.5 44.8 44.9 44.4 44.6 44.8	3 5HC 15.2 22.1 28.9 35.7 15.3 23.0 30.7 38.2 15.4 23.9 32.4 40.1 15.5 24.9 34.1 42.6 15.7 25.8 35.8	6 MBh 34.0 35.0 37.4 39.6 34.4 36.1 38.5 40.6 34.6 37.0 39.3 41.2 35.0 37.6 39.9 41.7 35.5 38.1 40.2	Ami Er 30.6 35.0 37.4 39.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32	bient 1 12 ntering 6 MBh 38.3 38.4 38.5 39.7 38.6 38.7 38.8 40.6 38.8 38.9 39.4 41.2 38.9 39.4 41.2 38.9 39.0 39.9 41.7 38.9 39.0 40.3	emperiod 20 3 7 22.9 29.6 35.3 39.7 24.1 31.5 38.5 40.6 25.1 33.4 39.4 41.2 26.1 34.1 39.9 41.7 26.1 34.1 39.9 41.7 26.1 34.1 39.9 41.7 26.5 40.3	rature Bulb (° 7 MBh 41.4 41.5 41.7 41.9 41.5 41.7 41.9 41.5 41.7 41.9 42.0 42.1 41.6 41.8 42.0 42.1 41.6 41.8 42.0 42.1 41.5 41.7 42.0	(°F) 3 SHC 14.1 21.0 27.9 34.6 14.2 22.0 29.6 37.0 14.3 22.9 31.3 39.2 14.4 23.8 33.0 41.4 14.6 24.7 34.6	6 MBh 32.0 33.3 35.6 37.5 32.3 34.2 36.4 38.2 32.5 34.9 37.0 38.7 33.0 35.4 37.4 39.9 33.4 35.8 37.6	SHC 29.2 33.3 35.6 37.5 31.5 34.2 36.4 38.2 34.9 37.0 38.7 33.0 35.4 37.4 39.9 33.4 35.8 37.6	12 MBh 35.9 36.0 36.2 37.6 36.3 36.5 38.2 36.3 37.1 38.7 36.2 36.3 37.1 38.7 36.2 36.3 37.4 40.0 36.1 36.3 37.4 40.0 36.1 36.2 37.6 37.6 37.6 37.6 37.6 38.2 36.3 37.6 36.5 37.6 36.5 37.6 36.5 37.6 36.5 36.5 36.5 37.6 36.5 37.1 36.5 37.4 40.0 36.1 36.2 36.7 37.4 40.0 36.2 37.6 36.7 37.4 40.0 36.2 37.6 37.6 36.7 37.4 36.2 37.6 37.6 37.6 36.7 37.4 36.7 37.6 37.	7 5HC 21.9 28.6 34.9 37.6 22.9 30.5 36.5 38.2 24.0 31.8 37.1 38.7 25.0 33.7 37.4 40.0 26.0 35.2 37.6	7 MBh 38.7 38.8 39.0 39.1 38.7 38.9 39.1 39.2 38.6 38.9 39.1 39.1 39.2 38.6 38.9 39.1 39.2 38.6 38.9 39.1 39.2 38.6 38.9 39.1 39.2 38.6 38.9 39.1 39.2 38.6 38.9 39.1 39.2 38.6 38.9 39.1 39.2 38.6 38.9 39.1 39.2 38.6 38.9 39.1 39.2 38.6 38.9 39.1 39.2 38.6 38.9 39.1 39.2 38.6 38.9 39.1 39.2 38.6 38.9 39.1 39.1 38.5 38.7 39.1 38.7 38.7 38.6 38.9 39.1 39.1 38.7 38.6 38.9 39.1 39.1 38.5 38.8 39.0 40.2 38.3 38.7 40.2 38.7 38.8 39.0 40.2 38.7 38.7 40.2 38.7 40.2	3 SHC 13.1 20.0 26.8 33.6 13.1 20.9 28.5 35.2 13.2 21.8 30.1 38.0 13.3 22.6 31.8 40.2 13.4 23.5 33.9

Table 3. Gross cooling capacities 4 tons - EBC048AD

Notes:

All capacities shown are gross and have not considered indoor fan heat. To obtain NET cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
 MBh = Total Gross Capacity
 SHC = Sensible Heat Capacity



									Ambiei	nt iem	peratu	re (*F,)						
				8	5					9	5					10	05		
Air	Ent								Ente	ing We	et Bulb) (°F)							
Flow	DB	6	1	6	7	7	3	6	1	6	7	7	3	6	1	6	7	7	3
cfm	(°F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1600	75	54.3	44.9	60.5	34.9	66.6	24.2	50.9	43.2	56.8	33.3	62.2	22.5	47.4	41.5	52.9	31.5	57.4	20.6
	80	54.4	52.5	60.5	43.3	66.6	32.8	51.0	50.6	56.9	41.7	62.3	31.0	47.6	47.6	52.9	40.0	57.5	29.2
	85	56.5	56.5	60.4	51.5	66.7	41.3	53.5	53.5	56.8	49.9	62.4	39.6	50.5	50.5	52.9	47.3	57.5	37.7
1000	90	59.3	59.3	60.5	58.8	66.7	49.7	56.5	56.5	56.9	56.9	62.4	47.8	53.3	53.3	53.4	53.4	57.6	45.9
1800	75	55.5	47.8	61.6	36.6	67.6	24.7	51.9	46.0	57.8	34.9	63.0	22.9	48.2	43.4	53.6	33.1	58.1	21.0
	80	55.6	55.6	61.6	46.0	67.6	34.2	52.3	52.3	57.8	44.1	63.0	32.4	49.2	49.2	53.6	42.2	58.1	30.5
	85	58.3	58.3	61.5	54.5	67.7	43.7	55.3	55.3	57.8	51.8	63.1	41.8	52.1	52.1	53.6	50.7	58.2	39.8
2000	90	61.5	61.5	61.6	61.6	67.7	52.8	58.4	58.4	58.5	58.5	63.2	51.0	54.9	54.9	55.0	55.0	58.2	49.1
2000	/5	56.5	50.4	62.6	38.3	68.3	25.1	52.6	47.3	58.6	36.5	63.5	23.2	48.8	46.0	54.2	34.6	58.5	21.3
	80	56.7	56.7	62.5	48.3	68.4	35.6	53.7	53.7	58.5	46.5	63.6	33.7	50.5	50.5	54.2	44.6	58.6	31.8
	85	60.0	60.0	62.5	57.3	68.5	46.0	56.9	56.9	58.5	55.7	63.7	43.9	53.5	53.5	54.1	53.6	58.7	41.9
2200	90	63.3	63.3	63.4	63.4	68.5	56.0	60.0	60.0	60. I	60. I	63.7	54.1	56.2	56.2	56.2	56.2	58.7	51.4
2200	/5	56.9	51.1	63.3	39.8	68.9	25.4	53.Z	50.3	59.2	38.0	64.0	23.0	49.2	48.Z	54.6	30.1	58.9	21.0
	00	30.1 41 E	00.1 41 E	03.Z	50.7	69.0	30.9	55.0	55.0	59.1	40.9 E0 E	64.1	35.0	51.0	51.0	54.0	40.9	59.0	33.1
	00	64.0	64.0	65.0	60.5	60.1	47.9 50.1	50.5 61.2	00.0 61.2	59.0	00.0 61.4	64.2	40.0 56.5	54.5	54.5	54.0	57.2	59.1	44.0 54.2
2400	75	57.4	54.9	62.0	41.2	60.1	25.0	52.6	52.4	50.6	20.4	64.2	22.0	10.5	10.5	57.2	27.1	59.0	21.0
2400	80	50.3	50.3	63.8	41.2 53.1	69.5	20.0	56.0	56.0	59.0	51.2	64.4	23.7	47.J	47.J	54.9	18.2	50.3	21.7
	85	62.8	62.8	63.6	63.3	69.6	50.2	59.0	59.0	59.0	59.4	64.5	48.1	55.4	55.4	55.4	40.2 55.4	59.3	46.0
	90	66.2	66.2	66.3	66.3	69.6	60.0	62.4	62.4	62.4	62.4	64.5	59.0	58.0	58.0	58.0	58.0	59.2	56.8
	,0	00.2	00.2	00.0	00.0	07.0	00.0	02.1	Ambiei	nt Tem	peratu	re (°F`	07.0	00.0	00.0	00.0	00.0	07.2	00.0
-				1.	15		i										_		
										12	20					12	25		
Air	Ent				10				Ente	ing We	20 et Bulk) (°F)				12	25		
Air Flow	Ent DB	6	1	6	7	7	3	6	Ente 1	12 ing Wo	20 et Bulk 7	o (°F) 7	3	6	1	6	7	7	3
Air Flow cfm	Ent DB (°F)	6 MBh	1 SHC	6 MBh	7 SHC	7 MBh	3 SHC	6 MBh	Enter 1 SHC	12 ring Wo 6 MBh	20 et Bulk 7 SHC	o (°F) 7 MBh	3 SHC	6 MBh	1 SHC	12 6 MBh	25 7 SHC	7 MBh	3 SHC
Air Flow cfm 1600	Ent DB (°F) 75	6 MBh 43.5	1 SHC 39.0	6 MBh 48.3	5 5 5 1 5 1 1 5 1 1 1 1 1 1 1 1 1 1	7 MBh 52.2	3 SHC 18.7	6 MBh 41.4	Enter 1 SHC 37.9	12 Ting We 6 MBh 45.8	20 et Bulb 7 SHC 28.5	(°F) 7 MBh 51.1	3 SHC 18.2	6 MBh 39.1	1 SHC 37.0	6 MBh 43.0	7 SHC 27.4	7 MBh 46.1	3 SHC 16.4
Air Flow cfm 1600	Ent DB (°F) 75 80	6 MBh 43.5 44.4	1 SHC 39.0 44.4	6 MBh 48.3 48.4	7 SHC 29.6 37.8	7 MBh 52.2 52.3	3 SHC 18.7 27.2	6 MBh 41.4 42.6	Enter 1 SHC 37.9 42.6	12 Fing We 6 MBh 45.8 45.8	20 et Bulk 7 SHC 28.5 36.7	o (°F) 7 MBh 51.1 49.4	3 SHC 18.2 26.2	6 MBh 39.1 40.6	1 SHC 37.0 40.6	6 MBh 43.0 43.1	7 SHC 27.4 35.5	7 MBh 46.1 46.2	3 SHC 16.4 25.0
Air Flow cfm 1600	Ent DB (°F) 75 80 85	6 MBh 43.5 44.4 47.1	1 SHC 39.0 44.4 47.1	6 MBh 48.3 48.4 48.4	7 SHC 29.6 37.8 45.5	7 MBh 52.2 52.3 52.4	3 SHC 18.7 27.2 35.7	6 MBh 41.4 42.6 45.1	Enter 1 37.9 42.6 45.1	Ting We 6 MBh 45.8 45.8 45.8	20 et Bulk 7 SHC 28.5 36.7 44.3	(°F) 7 MBh 51.1 49.4 49.5	3 SHC 18.2 26.2 34.5	6 MBh 39.1 40.6 42.8	1 SHC 37.0 40.6 42.8	6 MBh 43.0 43.1 43.1	7 SHC 27.4 35.5 43.0	7 MBh 46.1 46.2 46.4	3 SHC 16.4 25.0 33.2
Air Flow cfm 1600	Ent DB (°F) 75 80 85 90	6 MBh 43.5 44.4 47.1 49.5	1 SHC 39.0 44.4 47.1 49.5	6 MBh 48.3 48.4 48.4 49.5	5 5 5 7 2 9.6 37.8 45.5 49.5	7 MBh 52.2 52.3 52.4 52.5	3 SHC 18.7 27.2 35.7 43.9	6 MBh 41.4 42.6 45.1 47.2	Enter 1 37.9 42.6 45.1 47.2	MBh 45.8 45.8 45.8 45.8 45.8	20 et Bulk 7 SHC 28.5 36.7 44.3 47.3	 (°F) 7 MBh 51.1 49.4 49.5 51.0 	3 SHC 18.2 26.2 34.5 43.3	6 MBh 39.1 40.6 42.8 45.5	1 37.0 40.6 42.8 45.5	6 MBh 43.0 43.1 43.1 45.6	7 SHC 27.4 35.5 43.0 45.6	7 MBh 46.1 46.2 46.4 48.8	3 SHC 16.4 25.0 33.2 42.4
Air Flow cfm 1600	Ent DB (°F) 75 80 85 90 75	6 MBh 43.5 44.4 47.1 49.5 44.2	1 SHC 39.0 44.4 47.1 49.5 41.6	6 MBh 48.3 48.4 48.4 49.5 48.8	7 SHC 29.6 37.8 45.5 49.5 31.1	7 MBh 52.2 52.3 52.4 52.5 54.0	3 SHC 18.7 27.2 35.7 43.9 19.4	6 MBh 41.4 42.6 45.1 47.2 41.9	Enter 1 37.9 42.6 45.1 47.2 40.4	MBh 45.8 45.8 45.8 45.8 45.8 45.8 45.8	20 et Bulk 7 28.5 36.7 44.3 47.3 29.9	 (°F) 7 MBh 51.1 49.4 49.5 51.0 49.6 	3 SHC 18.2 26.2 34.5 43.3 17.8	6 MBh 39.1 40.6 42.8 45.5 39.5	1 37.0 40.6 42.8 45.5 39.2	6 MBh 43.0 43.1 43.1 45.6 43.3	7 SHC 27.4 35.5 43.0 45.6 28.7	7 MBh 46.1 46.2 46.4 48.8 49.6	3 SHC 16.4 25.0 33.2 42.4 17.8
Air Flow cfm 1600	Ent DB (°F) 75 80 85 90 75 80	6 MBh 43.5 44.4 47.1 49.5 44.2 45.8	1 39.0 44.4 47.1 49.5 41.6 45.8	6 MBh 48.3 48.4 48.4 49.5 48.8 48.9	7 SHC 29.6 37.8 45.5 49.5 31.1 40.2	7 MBh 52.2 52.3 52.4 52.5 54.0 52.7	3 SHC 18.7 27.2 35.7 43.9 19.4 28.5	6 MBh 41.4 42.6 45.1 47.2 41.9 43.8	Enter 1 SHC 37.9 42.6 45.1 47.2 40.4 43.8	MBh 45.8 45.8 45.8 45.8 45.8 46.1 46.2	20 et Bulk 7 SHC 28.5 36.7 44.3 47.3 29.9 39.1	 (°F) 7 MBh 51.1 49.4 49.5 51.0 49.6 49.7 	3 SHC 18.2 26.2 34.5 43.3 17.8 27.4	6 MBh 39.1 40.6 42.8 45.5 39.5 41.5	1 37.0 40.6 42.8 45.5 39.2 41.5	6 MBh 43.0 43.1 43.1 45.6 43.3 43.4	7 SHC 27.4 35.5 43.0 45.6 28.7 37.9	7 MBh 46.1 46.2 46.4 48.8 49.6 46.4	3 SHC 16.4 25.0 33.2 42.4 17.8 26.2
Air Flow cfm 1600 1800	Ent DB (°F) 75 80 85 90 75 80 80	6 MBh 43.5 44.4 47.1 49.5 44.2 45.8 48.4	SHC 39.0 44.4 47.1 49.5 41.6 45.8 48.4	6 MBh 48.3 48.4 48.4 49.5 48.8 48.9 48.9	7 SHC 29.6 37.8 45.5 49.5 31.1 40.2 48.4	7 MBh 52.2 52.3 52.4 52.5 54.0 52.7 53.8	3 SHC 18.7 27.2 35.7 43.9 19.4 28.5 38.0	6 MBh 41.4 42.6 45.1 47.2 41.9 43.8 46.1	Enter 1 SHC 37.9 42.6 45.1 47.2 40.4 43.8 46.1	Image Image <th< th=""><th>20 et Bulk 7 SHC 28.5 36.7 44.3 47.3 29.9 39.1 46.2</th><th>(°F) 7 MBh 51.1 49.4 49.5 51.0 49.6 49.7 51.7</th><th>3 SHC 18.2 26.2 34.5 43.3 17.8 27.4 37.2</th><th>6 MBh 39.1 40.6 42.8 45.5 39.5 41.5 43.8</th><th>SHC 37.0 40.6 42.8 45.5 39.2 41.5 43.8</th><th>6 MBh 43.0 43.1 43.1 45.6 43.3 43.4 43.8</th><th>7 SHC 27.4 35.5 43.0 45.6 28.7 37.9 43.8</th><th>7 MBh 46.1 46.2 46.4 48.8 49.6 46.4 46.5</th><th>3 SHC 16.4 25.0 33.2 42.4 17.8 26.2 35.3</th></th<>	20 et Bulk 7 SHC 28.5 36.7 44.3 47.3 29.9 39.1 46.2	(°F) 7 MBh 51.1 49.4 49.5 51.0 49.6 49.7 51.7	3 SHC 18.2 26.2 34.5 43.3 17.8 27.4 37.2	6 MBh 39.1 40.6 42.8 45.5 39.5 41.5 43.8	SHC 37.0 40.6 42.8 45.5 39.2 41.5 43.8	6 MBh 43.0 43.1 43.1 45.6 43.3 43.4 43.8	7 SHC 27.4 35.5 43.0 45.6 28.7 37.9 43.8	7 MBh 46.1 46.2 46.4 48.8 49.6 46.4 46.5	3 SHC 16.4 25.0 33.2 42.4 17.8 26.2 35.3
Air Flow cfm 1600 	Ent DB (°F) 75 80 85 90 75 80 85 85 90	6 MBh 43.5 44.4 47.1 49.5 44.2 45.8 48.4 50.7	SHC 39.0 44.4 47.1 49.5 41.6 45.8 48.4 50.7	6 MBh 48.3 48.4 48.4 49.5 48.8 48.9 48.9 50.7	7 SHC 29.6 37.8 45.5 49.5 31.1 40.2 48.4 50.7	7 MBh 52.2 52.3 52.4 52.5 54.0 52.7 53.8 53.8	3 SHC 18.7 27.2 35.7 43.9 19.4 28.5 38.0 46.9	6 MBh 41.4 42.6 45.1 47.2 41.9 43.8 46.1 48.4	Enter 1 SHC 37.9 42.6 45.1 47.2 40.4 43.8 46.1 48.4	Ing We 6 MBh 45.8 45.8 45.8 47.3 46.1 46.2 48.4	20 et Bulk 7 SHC 28.5 36.7 44.3 47.3 29.9 39.1 46.2 48.4	(°F) 7 MBh 51.1 49.4 49.5 51.0 49.6 49.7 51.7 51.8	3 SHC 18.2 26.2 34.5 43.3 17.8 27.4 37.2 45.5	6 MBh 39.1 40.6 42.8 45.5 39.5 41.5 43.8 47.2	SHC 37.0 40.6 42.8 45.5 39.2 41.5 43.8 47.2	6 MBh 43.0 43.1 43.1 45.6 43.3 43.4 43.8 47.2	7 SHC 27.4 35.5 43.0 45.6 28.7 37.9 43.8 47.2	7 MBh 46.1 46.2 46.4 48.8 49.6 46.4 46.5 49.6	3 SHC 16.4 25.0 33.2 42.4 17.8 26.2 35.3 44.2
Air Flow cfm 1600 	Ent DB (°F) 75 80 85 90 75 80 85 90 90	6 MBh 43.5 44.4 47.1 49.5 44.2 45.8 48.4 50.7 44.6	SHC 39.0 44.4 47.1 49.5 41.6 45.8 48.4 50.7 43.8	6 MBh 48.3 48.4 48.4 49.5 48.8 48.9 48.9 50.7 49.2	7 SHC 29.6 37.8 45.5 49.5 31.1 40.2 48.4 50.7 32.6	7 MBh 52.2 52.3 52.4 52.5 54.0 52.7 53.8 53.8 53.8 54.6	3 SHC 18.7 27.2 35.7 43.9 19.4 28.5 38.0 46.9 19.8	6 MBh 41.4 42.6 45.1 47.2 41.9 43.8 46.1 48.4 42.3	Enter 1 SHC 37.9 42.6 45.1 47.2 40.4 43.8 46.1 48.4 42.3	12 Fing We 6 MBh 45.8 45.8 45.8 45.8 45.8 45.8 45.8 45.8 45.8 46.1 46.2 48.4 46.4	20 21 Bulk 7 28.5 36.7 44.3 47.3 29.9 39.1 46.2 48.4 31.4	(°F) 7 MBh 51.1 49.4 49.5 51.0 49.6 49.7 51.7 51.8 49.7	3 SHC 18.2 26.2 34.5 43.3 17.8 27.4 37.2 45.5 18.1	6 MBh 39.1 40.6 42.8 45.5 39.5 41.5 43.8 47.2 39.9	SHC 37.0 40.6 42.8 45.5 39.2 41.5 43.8 47.2 39.9	12 6 MBh 43.0 43.1 43.1 45.6 43.3 43.4 43.8 47.2 43.6	7 SHC 27.4 35.5 43.0 45.6 28.7 37.9 43.8 47.2 29.9	7 MBh 46.1 46.2 46.4 48.8 49.6 46.4 46.5 49.6 46.2	3 5HC 16.4 25.0 33.2 42.4 17.8 26.2 35.3 44.2 16.9
Air Flow cfm 1600 	Ent DB (°F) 75 80 85 90 75 80 75 90 75 80	6 MBh 43.5 44.4 47.1 49.5 44.2 45.8 48.4 50.7 44.6 46.8	1 39.0 44.4 47.1 49.5 41.6 45.8 48.4 50.7 43.8 46.8	6 MBh 48.3 48.4 49.5 48.8 48.9 48.9 50.7 49.2 49.2	7 SHC 29.6 37.8 45.5 49.5 31.1 40.2 48.4 50.7 32.6 42.5	7 MBh 52.2 52.3 52.4 52.5 54.0 52.7 53.8 53.8 53.8 54.6 54.6	3 5HC 18.7 27.2 35.7 43.9 19.4 28.5 38.0 46.9 19.8 30.2	6 MBh 41.4 42.6 45.1 47.2 41.9 43.8 46.1 48.4 42.3 44.7	Enter 1 SHC 37.9 42.6 45.1 47.2 40.4 43.8 46.1 48.4 42.3 44.7	12 Fing We 6 MBh 45.8 45.8 45.8 45.8 46.1 46.2 48.4 46.5	20 et Bulk 7 SHC 28.5 36.7 44.3 47.3 29.9 39.1 46.2 48.4 31.4 40.8	 (°F) 7 MBh 51.1 49.4 49.5 51.0 49.6 49.7 51.8 49.7 49.9 	3 SHC 18.2 26.2 34.5 43.3 17.8 27.4 37.2 45.5 18.1 28.6	6 MBh 39.1 40.6 42.8 45.5 39.5 41.5 43.8 47.2 39.9 42.2	SHC 37.0 40.6 42.8 45.5 39.2 41.5 43.8 47.2 39.9 42.2	6 MBh 43.0 43.1 45.6 43.3 43.4 43.8 47.2 43.6 43.7	7 5HC 27.4 35.5 43.0 45.6 28.7 37.9 43.8 47.2 29.9 38.9	7 MBh 46.1 46.2 46.4 48.8 49.6 46.4 46.5 49.6 46.2 46.2	3 5HC 16.4 25.0 33.2 42.4 17.8 26.2 35.3 44.2 16.9 27.4
Air Flow cfm 1600 	Ent DB (°F) 75 80 90 75 80 85 90 75 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 85 85 85 85 85 85 85 85 85	6 MBh 43.5 44.4 47.1 49.5 44.2 45.8 48.4 50.7 44.6 46.8 49.3	1 39.0 44.4 47.1 49.5 41.6 45.8 48.4 50.7 43.8 46.8 49.3	6 MBh 48.3 48.4 48.4 49.5 48.8 48.9 48.9 50.7 49.2 49.2 49.4	7 SHC 29.6 37.8 45.5 49.5 31.1 40.2 48.4 50.7 32.6 42.5 49.4	7 MBh 52.2 52.3 52.4 52.5 54.0 52.7 53.8 53.8 54.6 54.6 54.5	3 SHC 18.7 27.2 35.7 43.9 19.4 28.5 38.0 46.9 19.8 30.2 40.2	6 MBh 41.4 42.6 45.1 47.2 41.9 43.8 46.1 48.4 42.3 44.7 47.0	Enter 1 SHC 37.9 42.6 45.1 47.2 40.4 43.8 46.1 48.4 42.3 44.7 47.0	12 Fing We 6 MBh 45.8 45.8 45.8 45.8 46.1 46.2 48.4 46.5 47.0	20 21 Bulk 7 SHC 28.5 36.7 44.3 47.3 29.9 39.1 46.2 48.4 31.4 40.8 47.0	(°F) 7 MBh 51.1 49.4 49.5 51.0 49.6 49.7 51.7 51.8 49.7 49.7 49.9 50.0	3 SHC 18.2 26.2 34.5 43.3 17.8 27.4 37.2 45.5 18.1 28.6 38.6	6 MBh 39.1 40.6 42.8 45.5 39.5 41.5 43.8 47.2 39.9 42.2 44.5	1 37.0 40.6 42.8 45.5 39.2 41.5 43.8 47.2 39.9 42.2 44.5	6 MBh 43.0 43.1 43.1 45.6 43.3 43.4 43.8 47.2 43.6 43.7 44.5	7 SHC 27.4 35.5 43.0 45.6 28.7 37.9 43.8 47.2 29.9 38.9 44.5	7 MBh 46.1 46.2 46.4 48.8 49.6 46.4 46.5 49.6 46.2 46.5 46.5 46.6	3 5HC 16.4 25.0 33.2 42.4 17.8 26.2 35.3 44.2 16.9 27.4 37.3
Air Flow cfm 1600 1800 2000	Ent DB (°F) 75 80 90 75 80 85 90 75 80 75 80 85 90 75 90 90	6 MBh 43.5 44.4 47.1 49.5 44.2 45.8 48.4 50.7 44.6 46.8 49.3 51.7	1 39.0 44.4 47.1 49.5 41.6 45.8 48.4 50.7 43.8 46.8 49.3 51.7	6 MBh 48.3 48.4 49.5 48.8 48.9 48.9 50.7 49.2 49.2 49.2 49.4 51.8	7 SHC 29.6 37.8 45.5 49.5 31.1 40.2 48.4 50.7 32.6 42.5 49.4 51.8	7 MBh 52.2 52.3 52.4 52.5 54.0 52.7 53.8 53.8 53.8 53.8 54.6 54.6 54.5 54.4	3 SHC 18.7 27.2 35.7 43.9 19.4 28.5 38.0 46.9 19.8 30.2 40.2 49.7	6 MBh 41.4 42.6 45.1 47.2 41.9 43.8 46.1 48.4 42.3 44.7 47.0 50.3	Enter 1 SHC 37.9 42.6 45.1 47.2 40.4 43.8 46.1 48.4 42.3 44.7 47.0 50.3	12 Fing We 6 MBh 45.8 45.8 45.8 45.8 46.1 46.2 46.2 48.4 46.5 47.0 50.4	20 at Bulk 7 SHC 28.5 36.7 44.3 47.3 29.9 39.1 46.2 48.4 31.4 40.8 47.0 50.4	 (°F) 7 MBh 51.1 49.4 49.5 51.0 49.6 49.7 51.7 51.8 49.7 49.9 50.0 52.3 	3 SHC 18.2 26.2 34.5 43.3 17.8 27.4 37.2 45.5 18.1 28.6 38.6 48.8	6 MBh 39.1 40.6 42.8 45.5 39.5 41.5 43.8 47.2 39.9 42.2 44.5 48.6	SHC 37.0 40.6 42.8 45.5 39.2 41.5 43.8 47.2 39.9 42.2 44.5 48.6	6 MBh 43.0 43.1 45.6 43.3 43.4 43.8 47.2 43.6 43.7 44.5 48.7	7 SHC 27.4 35.5 43.0 45.6 28.7 37.9 43.8 47.2 29.9 38.9 44.5 48.7	7 MBh 46.1 46.2 46.4 48.8 49.6 46.4 46.5 49.6 46.2 46.5 46.5 46.6 50.0	3 5HC 16.4 25.0 33.2 42.4 17.8 26.2 35.3 44.2 16.9 27.4 37.3 47.8
Air Flow cfm 1600 1800 2000 22000	Ent DB (°F) 75 80 75 80 85 90 75 80 85 90 85 90 75	6 MBh 43.5 44.4 47.1 49.5 44.2 45.8 48.4 50.7 44.6 46.8 49.3 51.7 44.9	1 39.0 44.4 47.1 49.5 41.6 45.8 48.4 50.7 43.8 46.8 49.3 51.7 44.9	6 MBh 48.3 48.4 49.5 48.8 48.9 48.9 50.7 49.2 49.2 49.4 51.8 49.4	7 SHC 29.6 37.8 45.5 49.5 31.1 40.2 48.4 50.7 32.6 42.5 49.4 51.8 33.6	7 MBh 52.2 52.3 52.4 52.5 54.0 52.7 53.8 53.8 54.6 54.6 54.5 54.4 55.2	3 SHC 18.7 27.2 35.7 43.9 19.4 28.5 38.0 46.9 19.8 30.2 40.2 49.7 20.2	6 MBh 41.4 42.6 45.1 47.2 41.9 43.8 46.1 48.4 42.3 44.7 47.0 50.3 42.8	Enter 1 SHC 37.9 42.6 45.1 47.2 40.4 43.8 46.1 48.4 42.3 44.7 47.0 50.3 42.8	12 Fing We 6 MBh 45.8 45.8 45.8 47.3 46.1 46.2 48.4 46.5 47.0 50.4 46.6	20 at Bulk 7 SHC 28.5 36.7 44.3 47.3 29.9 39.1 46.2 48.4 31.4 40.8 47.0 50.4 32.4	 (°F) 7 MBh 51.1 49.4 49.5 51.0 49.6 49.7 51.7 51.8 49.7 49.9 50.0 52.3 49.8 	3 3 3 4 5 4 3 4 3 5 5 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 1 8 1 1 1 8 2 7 1 1 1 1 1 1 1 1 1 1	6 MBh 39.1 40.6 42.8 45.5 39.5 41.5 43.8 47.2 39.9 42.2 44.5 48.6 40.5	SHC 37.0 40.6 42.8 45.5 39.2 41.5 43.8 47.2 39.9 42.2 44.5 48.6 40.5	6 MBh 43.0 43.1 45.6 43.3 43.4 43.8 47.2 43.6 43.7 44.5 48.7 43.8	7 SHC 27.4 35.5 43.0 45.6 28.7 37.9 43.8 47.2 29.9 38.9 44.5 48.7 31.1	7 MBh 46.1 46.2 46.4 48.8 49.6 46.4 46.5 49.6 46.2 46.5 46.6 50.0 46.2	3 5HC 16.4 25.0 33.2 42.4 17.8 26.2 35.3 44.2 16.9 27.4 37.3 47.8 17.1
Air Flow cfm 1600 	Ent DB (°F) 75 80 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 85 90 85 90 85 90 85 90 85 85 90 85 85 85 80 85 85 85 80 85 85 85 85 80 85 85 85 85 85 85 85 85 85 85	6 MBh 43.5 44.4 47.1 49.5 44.2 45.8 48.4 50.7 44.6 46.8 49.3 51.7 44.9 47.6 7 44.9	1 39.0 44.4 47.1 49.5 41.6 45.8 48.4 50.7 43.8 46.8 49.3 51.7 44.9 47.1	6 MBh 48.3 48.4 49.5 48.8 48.9 48.9 48.9 50.7 49.2 49.2 49.4 51.8 49.4 49.5 	7 SHC 29.6 37.8 45.5 49.5 31.1 40.2 48.4 50.7 32.6 42.5 49.4 51.8 33.6 43.4	7 MBh 52.2 52.3 52.4 52.5 54.0 52.7 53.8 53.8 54.6 54.6 54.6 54.5 54.4 55.2 55.2 55.0	3 SHC 18.7 27.2 35.7 43.9 19.4 28.5 38.0 46.9 19.8 30.2 40.2 49.7 20.2 31.5	6 MBh 41.4 42.6 45.1 47.2 41.9 43.8 46.1 48.4 42.3 44.7 47.0 50.3 42.8 45.3 45.1 45.1 47.2	Enter 1 SHC 37.9 42.6 45.1 47.2 40.4 43.8 46.1 48.4 42.3 44.7 47.0 50.3 42.8 45.3	12 Fing We 6 MBh 45.8 45.8 45.8 47.3 46.1 46.2 46.2 46.4 46.5 47.0 50.4 46.6 46.6	20 at Bulk 7 SHC 28.5 36.7 44.3 47.3 29.9 39.1 46.2 48.4 31.4 40.8 47.0 50.4 32.4 42.8 	 (°F) 7 MBh 51.1 49.4 49.5 51.0 49.6 49.7 51.7 51.8 49.7 49.9 50.0 52.3 49.8 50.0 	3 SHC 18.2 26.2 34.5 43.3 17.8 27.4 37.2 45.5 18.1 28.6 38.6 48.8 18.3 29.6	6 MBh 39.1 40.6 42.8 45.5 39.5 41.5 43.8 47.2 39.9 42.2 44.5 48.6 40.5 42.8	1 37.0 40.6 42.8 45.5 39.2 41.5 43.8 47.2 39.9 42.2 44.5 48.6 40.5 42.8	6 MBh 43.0 43.1 45.6 43.3 43.4 43.8 47.2 43.6 43.7 44.5 48.7 43.8	7 SHC 27.4 35.5 43.0 45.6 28.7 37.9 43.8 47.2 29.9 38.9 44.5 48.7 31.1 41.5	7 MBh 46.1 46.2 46.4 48.8 49.6 46.4 46.5 49.6 46.2 46.5 46.5 46.6 50.0 46.2 50.4	3 SHC 16.4 25.0 33.2 42.4 17.8 26.2 35.3 44.2 16.9 27.4 37.3 47.8 17.1 29.8 2-2 2-2 3-2 2-2 3-2 3-2 3-2 3-2
Air Flow cfm 1600 	Ent DB (°F) 75 80 90 75 80 85 90 75 80 85 90 75 80 85 90 85 90 75 80 85 90 85 90 85 90 85 85 85 85 85 85 85 85 85 85	6 MBh 43.5 44.4 47.1 49.5 44.2 45.8 48.4 50.7 44.6 46.8 49.3 51.7 44.9 47.6 50.1	1 39.0 44.4 47.1 49.5 41.6 45.8 48.4 50.7 43.8 46.8 49.3 51.7 44.9 47.6	6 MBh 48.3 48.4 49.5 48.8 48.9 48.9 50.7 49.2 49.2 49.4 51.8 49.4 49.5 50.1	7 SHC 29.6 37.8 45.5 49.5 31.1 40.2 48.4 50.7 32.6 42.5 49.4 51.8 33.6 43.4 50.1	7 MBh 52.2 52.3 52.4 52.5 54.0 52.7 53.8 53.8 53.8 54.6 54.6 54.6 54.5 54.4 55.2 55.0 53.3	3 SHC 18.7 27.2 35.7 43.9 19.4 28.5 38.0 46.9 19.8 30.2 40.2 49.7 20.2 31.5 41.8	6 MBh 41.4 42.6 45.1 47.2 41.9 43.8 46.1 48.4 42.3 44.7 47.0 50.3 42.8 45.3 47.7	Enter 1 SHC 37.9 42.6 45.1 47.2 40.4 43.8 46.1 48.4 42.3 44.7 47.0 50.3 42.8 45.3 47.7	12 Fing We 6 MBh 45.8 45.8 45.8 47.3 46.1 46.2 48.4 46.5 47.0 50.4 46.6 47.8	20 et Bulk 7 3HC 28.5 36.7 44.3 47.3 29.9 39.1 46.2 48.4 31.4 40.8 47.0 50.4 32.4 42.8 47.8	 (°F) 7 MBh 51.1 49.4 49.5 51.0 49.6 49.7 51.7 51.8 49.7 49.9 50.0 52.3 49.8 50.0 52.8 	3 SHC 18.2 26.2 34.5 43.3 17.8 27.4 37.2 45.5 18.1 28.6 38.6 48.8 18.3 29.6 41.5	6 MBh 39.1 40.6 42.8 45.5 39.5 41.5 43.8 47.2 39.9 42.2 44.5 48.6 40.5 42.8 45.0	1 37.0 40.6 42.8 45.5 39.2 41.5 43.8 47.2 39.9 42.2 44.5 48.6 40.5 42.8 45.0	6 MBh 43.0 43.1 45.6 43.3 43.4 43.8 47.2 43.6 43.7 44.5 48.7 43.8 43.7 45.1	7 SHC 27.4 35.5 43.0 45.6 28.7 37.9 43.8 47.2 29.9 38.9 44.5 48.7 31.1 41.5 45.1	7 MBh 46.1 46.2 46.4 48.8 49.6 46.4 46.5 49.6 46.2 46.5 46.6 50.0 46.2 50.4 46.6	3 SHC 16.4 25.0 33.2 42.4 17.8 26.2 35.3 44.2 16.9 27.4 37.3 47.8 17.1 29.8 39.3
Air Flow cfm 1600 	Ent DB (°F) 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 85 90 85 90 85 85 90 85 85 85 85 85 85 85 85 85 85	6 MBh 43.5 44.4 47.1 49.5 44.2 45.8 48.4 50.7 44.6 46.8 49.3 51.7 44.9 47.6 50.1 53.3 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2	1 39.0 44.4 47.1 49.5 41.6 45.8 48.4 50.7 43.8 46.8 49.3 51.7 44.9 47.6 50.1 53.3	6 MBh 48.3 48.4 49.5 48.8 48.9 48.9 50.7 49.2 49.2 49.4 51.8 49.4 49.5 50.1 53.4 	7 SHC 29.6 37.8 45.5 49.5 31.1 40.2 48.4 50.7 32.6 42.5 49.4 51.8 33.6 43.4 50.1 53.4 2	7 MBh 52.2 52.3 52.4 52.5 54.0 52.7 53.8 53.8 54.6 54.6 54.5 54.6 54.5 54.4 55.2 55.0 53.3 54.9 5	3 SHC 18.7 27.2 35.7 43.9 19.4 28.5 38.0 46.9 19.8 30.2 40.2 40.2 40.2 40.2 31.5 41.8 52.4 52.4	6 MBh 41.4 42.6 45.1 47.2 41.9 43.8 46.1 48.4 42.3 44.7 47.0 50.3 42.8 45.3 47.7 51.6 	Enter 1 SHC 37.9 42.6 45.1 47.2 40.4 43.8 46.1 48.4 42.3 44.7 47.0 50.3 42.8 45.3 47.7 51.6	12 Fing We 6 MBh 45.8 45.8 45.8 47.3 46.1 46.2 46.2 48.4 46.5 47.0 50.4 46.6 47.8 51.7	20 at Bulk 7 SHC 28.5 36.7 44.3 47.3 29.9 39.1 46.2 48.4 31.4 40.8 47.0 50.4 32.4 42.8 47.8 51.7 2-2 52-2	 (°F) 7 MBh 51.1 49.4 49.5 51.0 49.6 49.7 51.7 51.8 49.7 49.9 50.0 52.3 49.8 50.0 52.8 52.8 52.8 52.8 	3 SHC 18.2 26.2 34.5 43.3 17.8 27.4 37.2 45.5 18.1 28.6 38.6 48.8 18.3 29.6 41.5 51.5	6 MBh 39.1 40.6 42.8 45.5 39.5 41.5 43.8 47.2 39.9 42.2 44.5 48.6 40.5 42.8 45.0 49.8	1 37.0 40.6 42.8 45.5 39.2 41.5 43.8 47.2 39.9 42.2 44.5 48.6 40.5 42.8 45.0 42.8	1: 6 MBh 43.0 43.1 45.6 43.3 43.4 43.8 47.2 43.6 43.7 44.5 48.7 43.8 43.7 45.1 49.7	7 SHC 27.4 35.5 43.0 45.6 28.7 37.9 43.8 47.2 29.9 38.9 44.5 48.7 31.1 41.5 45.1 49.9	7 MBh 46.1 46.2 46.4 48.8 49.6 46.4 46.5 46.4 46.5 46.5 46.6 50.0 46.2 50.4 46.6 50.5	3 SHC 16.4 25.0 33.2 42.4 17.8 26.2 35.3 44.2 16.9 27.4 37.3 47.8 17.1 29.8 39.3 50.5 27.5
Air Flow cfm 1600 	Ent DB (°F) 75 80 75 80 85 90 75 80 85 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 80 85 90 75 80 85 80 85 90 75 80 85 90 75 80 85 90 75 80 85 85 85 85 85 85 85 85 85 85	6 MBh 43.5 44.4 47.1 49.5 44.2 45.8 48.4 50.7 44.6 46.8 49.3 51.7 44.6 46.8 49.3 51.7 44.9 47.6 50.1 53.3 45.3	1 39.0 44.4 47.1 49.5 41.6 45.8 48.4 50.7 43.8 46.8 49.3 51.7 44.9 47.6 50.1 53.3 45.5	6 MBh 48.3 48.4 49.5 48.8 48.9 48.9 50.7 49.2 49.2 49.2 49.4 51.8 49.4 49.5 50.1 53.4 49.6	7 SHC 29.6 37.8 45.5 49.5 31.1 40.2 48.4 50.7 32.6 42.5 49.4 51.8 33.6 43.4 50.1 53.4 34.8	7 MBh 52.2 52.3 52.4 52.5 54.0 52.7 53.8 53.8 54.6 54.6 54.5 54.6 54.5 54.4 55.2 55.0 53.3 54.9 55.6	3 SHC 18.7 27.2 35.7 43.9 19.4 28.5 38.0 46.9 19.8 30.2 40.2 40.2 40.2 40.2 40.2 31.5 41.8 52.4 20.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	6 MBh 41.4 42.6 45.1 47.2 41.9 43.8 46.1 48.4 42.3 44.7 47.0 50.3 42.8 45.3 47.7 51.6 43.3	Enter 1 SHC 37.9 42.6 45.1 47.2 40.4 43.8 46.1 48.4 42.3 44.7 47.0 50.3 42.8 45.3 47.7 51.6 43.3	12 Fing We 6 MBh 45.8 45.8 45.8 47.3 46.1 46.2 48.4 46.5 47.0 50.4 46.6 47.8 51.7 46.8	20 at Bulk 7 SHC 28.5 36.7 44.3 47.3 29.9 39.1 46.2 48.4 31.4 40.8 47.0 50.4 32.4 42.8 47.8 51.7 33.6 51.7 33.6	 (°F) 7 MBh 51.1 49.4 49.5 51.0 49.6 49.7 51.7 51.8 49.7 49.9 50.0 52.3 49.8 50.0 52.8 52.8 52.8 53.4 	3 SHC 18.2 26.2 34.5 43.3 17.8 27.4 37.2 45.5 18.1 28.6 38.6 48.8 18.3 29.6 41.5 51.5 19.7 19.7	6 MBh 39.1 40.6 42.8 45.5 39.5 41.5 43.8 47.2 39.9 42.2 44.5 48.6 40.5 42.8 45.0 49.8 40.0 49.8 40.0	1 37.0 40.6 42.8 45.5 39.2 41.5 43.8 47.2 39.9 42.2 44.5 48.6 40.5 42.8 45.0 49.8 40.5	1: 6 MBh 43.0 43.1 45.6 43.3 43.4 43.8 47.2 43.6 43.7 44.5 48.7 43.8 43.7 44.5 43.7 43.8 43.7 43.8 43.7 43.8 43.7 45.1 49.9 43.8	7 SHC 27.4 35.5 43.0 45.6 28.7 37.9 43.8 47.2 29.9 38.9 44.5 48.7 31.1 41.5 45.1 49.9 32.3	7 MBh 46.1 46.2 46.4 48.8 49.6 46.4 46.5 49.6 46.2 46.5 46.6 50.0 46.2 50.4 46.6 50.5 50.9	3 SHC 16.4 25.0 33.2 42.4 17.8 26.2 35.3 44.2 16.9 27.4 37.3 47.8 17.1 29.8 39.3 50.5 18.8 22.5 18.8
Air Flow cfm 1600 	Ent DB (°F) 75 80 85 90 75 80 85 80 85 90 75 80 85 90 75 80 85 90 75 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 90 85 80 85 90 85 90 85 80 85 90 85 80 85 90 85 80 85 90 85 80 80 80 80 80 80 80 80 80 80	6 MBh 43.5 44.4 47.1 49.5 44.2 45.8 48.4 50.7 44.6 46.8 49.3 51.7 44.6 46.8 49.3 51.7 44.9 47.6 50.1 53.3 45.5 48.3	1 39.0 44.4 47.1 49.5 41.6 45.8 48.4 50.7 43.8 46.8 49.3 51.7 44.9 47.6 50.1 53.3 45.5 48.3	6 MBh 48.3 48.4 49.5 48.8 48.9 48.9 50.7 49.2 49.2 49.2 49.2 49.4 51.8 49.4 49.5 50.1 53.4 49.6 49.6	7 SHC 29.6 37.8 45.5 49.5 31.1 40.2 48.4 50.7 32.6 42.5 49.4 51.8 33.6 43.4 50.1 53.4 34.8 46.0	7 MBh 52.2 52.3 52.4 52.5 54.0 52.7 53.8 53.8 54.6 54.6 54.5 54.6 54.5 54.4 55.2 55.0 53.3 54.9 55.6 55.4	3 SHC 18.7 27.2 35.7 43.9 19.4 28.5 38.0 46.9 19.8 30.2 40.2 40.2 40.2 40.2 40.2 31.5 41.8 52.4 20.5 32.8	6 MBh 41.4 42.6 45.1 47.2 41.9 43.8 46.1 48.4 42.3 44.7 47.0 50.3 42.8 45.3 47.7 51.6 43.3 45.9	Enter 1 SHC 37.9 42.6 45.1 47.2 40.4 43.8 46.1 48.4 42.3 44.7 47.0 50.3 42.8 45.3 47.7 51.6 43.3 45.9	12 Fing Wo 6 MBh 45.8 45.8 45.8 47.3 46.1 46.2 48.4 46.5 47.0 50.4 46.6 47.8 51.7 46.8 46.7	20 at Bulk 7 SHC 28.5 36.7 44.3 47.3 29.9 39.1 46.2 48.4 31.4 40.8 47.0 50.4 32.4 42.8 47.8 51.7 33.6 44.7	 (°F) 7 MBh 51.1 49.4 49.5 51.0 49.6 49.7 51.7 51.8 49.7 50.0 52.3 49.8 50.0 52.8 52.8 53.4 53.1 	3 SHC 18.2 26.2 34.5 43.3 17.8 27.4 37.2 45.5 18.1 28.6 38.6 48.8 18.3 29.6 41.5 51.5 19.7 32.0	6 MBh 39.1 40.6 42.8 45.5 39.5 41.5 43.8 47.2 39.9 42.2 44.5 48.6 40.5 42.8 45.0 49.8 40.9 43.3	1 37.0 40.6 42.8 45.5 39.2 41.5 43.8 47.2 39.9 42.2 44.5 48.6 40.5 42.8 45.0 49.8 40.9 43.3	1: 6 MBh 43.0 43.1 45.6 43.3 43.4 43.8 47.2 43.6 43.7 44.5 48.7 43.8 43.7 43.8 43.7 45.1 49.9 43.8 43.8 43.8	7 SHC 27.4 35.5 43.0 45.6 28.7 37.9 43.8 47.2 29.9 38.9 44.5 48.7 31.1 41.5 45.1 49.9 32.3 43.3	7 MBh 46.1 46.2 46.4 48.8 49.6 46.4 46.5 49.6 46.2 46.5 46.6 50.0 46.2 50.4 46.6 50.5 50.9 50.6	3 SHC 16.4 25.0 33.2 42.4 17.8 26.2 35.3 44.2 16.9 27.4 37.3 47.8 17.1 29.8 39.3 50.5 18.8 30.6
Air Flow cfm 1600 	Ent DB (°F) 75 80 75 80 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90 85 90 85 90 85 90 85 90 85 90 85 90 85 90 85 90 85 90 85 90 85 80 85 90 85 85 80 85 85 85 85 80 85 85 85 80 85 85 85 85 85 85 85 85 85 85	6 MBh 43.5 44.4 47.1 49.5 44.2 45.8 48.4 50.7 44.6 46.8 49.3 51.7 44.6 46.8 49.3 51.7 44.9 47.6 50.1 53.3 45.5 48.3 50.8 50.8	1 39.0 44.4 47.1 49.5 41.6 45.8 48.4 50.7 43.8 46.8 49.3 51.7 44.9 47.6 50.1 53.3 45.5 48.3 50.8	6 MBh 48.3 48.4 49.5 48.8 48.9 48.9 48.9 50.7 49.2 49.2 49.2 49.4 51.8 49.4 49.5 50.1 53.4 49.6 49.6 50.8 	7 SHC 29.6 37.8 45.5 49.5 31.1 40.2 48.4 50.7 32.6 42.5 49.4 51.8 33.6 43.4 50.1 53.4 34.8 46.0 50.8	7 MBh 52.2 52.3 52.4 52.5 54.0 52.7 53.8 54.6 54.6 54.6 54.5 54.4 55.2 55.0 53.3 54.9 55.6 55.4 55.4 53.4	3 SHC 18.7 27.2 35.7 43.9 19.4 28.5 38.0 46.9 19.8 30.2 40.2 40.2 40.2 40.2 40.2 31.5 41.8 52.4 20.5 32.8 43.8 43.9 43.9 43.9 43.9 43.9 43.9 43.9 40.9 40.2 40.3 40.2 40.3 40.3 40.3 40.4	6 MBh 41.4 42.6 45.1 47.2 41.9 43.8 46.1 48.4 42.3 44.7 47.0 50.3 42.8 45.3 47.7 51.6 43.3 45.9 48.9 25.9 48.9	Enter 1 SHC 37.9 42.6 45.1 47.2 40.4 43.8 46.1 48.4 42.3 44.7 47.0 50.3 42.8 45.3 47.7 51.6 43.3 45.9 48.9 48.9	12 Fing Wo 6 MBh 45.8 45.8 45.8 47.3 46.1 46.2 46.2 46.4 46.5 47.0 50.4 46.6 47.8 51.7 46.8 46.7 92.0	20 at Bulk 7 SHC 28.5 36.7 44.3 47.3 29.9 39.1 46.2 48.4 31.4 40.8 47.0 50.4 32.4 42.8 47.8 51.7 33.6 44.7 49.9 33.6 44.7 40.8 47.8 51.7 33.6 44.7 40.8 51.7 50.4 40.8 51.7 50.4 50.7 50.4 50.7 50.4 50.7 50.4 50.7 50.4 50.7 50.4 50.7 50.4 50.7 50.4 50.7 50.4 50.7 50.4 50.7 50.4 50.7 50.4 50.7 50.4 50.7 50.7 50.7 50.4 50.7 50.4 50.7 50.7 50.4 50.7 50.7 50.4 50.7 50.	 (°F) 7 MBh 51.1 49.4 49.5 51.0 49.6 49.7 51.7 51.8 49.7 50.0 52.3 49.8 50.0 52.8 52.8 53.4 53.1 53.2 	3 SHC 18.2 26.2 34.5 43.3 17.8 27.4 37.2 45.5 18.1 28.6 38.6 48.8 18.3 29.6 41.5 51.5 19.7 32.0 43.6	6 MBh 39.1 40.6 42.8 45.5 39.5 41.5 43.8 47.2 39.9 42.2 44.5 48.6 40.5 42.8 45.0 49.8 40.9 43.3 45.4	1 37.0 40.6 42.8 45.5 39.2 41.5 43.8 47.2 39.9 42.2 44.5 48.6 40.5 42.8 45.0 49.8 40.9 43.3 45.4	1: 6 MBh 43.0 43.1 45.6 43.3 43.4 43.8 47.2 43.6 43.7 44.5 48.7 43.8 43.7 45.1 49.9 43.8 43.8 43.7	7 SHC 27.4 35.5 43.0 45.6 28.7 37.9 43.8 47.2 29.9 38.9 44.5 48.7 31.1 41.5 45.1 49.9 32.3 43.3 45.4	7 MBh 46.1 46.2 46.4 48.8 49.6 46.4 46.5 49.6 46.2 46.5 46.6 50.0 46.2 50.4 46.6 50.0 46.2 50.4 46.6 50.5 50.9 50.6 50.8 50.8	3 SHC 16.4 25.0 33.2 42.4 17.8 26.2 35.3 44.2 16.9 27.4 37.3 47.8 17.1 29.8 39.3 50.5 18.8 30.6 42.7

Table 4. Gross cooling capacities 5 tons - EBC060AD

Notes:

All capacities shown are gross and have not considered indoor fan heat. To obtain NET cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
 MBh = Total Gross Capacity
 SHC = Sensible Heat Capacity



Table 5. Belt drive evaporator fan performance - 3 tons cooling only units - EBC036AD - downflow airflow

						E	xterna	al Sta	tic Pre	essure	(Inch	nes of	Wate	r)						
	0.	10	0.	20	0.	30	0.	40	0.	50	0.	60	0.	70	0.	80	0.	90	1.	00
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
								1-	hp star	ndard r	notor a	nd pull	еу							
960					587	0.17	645	0.21	698	0.25	746	0.29	792	0.34	834	0.38	875	0.43	913	0.48
1080			550	0.17	612	0.21	668	0.25	720	0.30	768	0.34	813	0.39	855	0.44	895	0.49	933	0.54
1200			578	0.20	638	0.25	693	0.30	743	0.34	790	0.39	834	0.44	876	0.50	915	0.55	953	0.60
1320			608	0.25	666	0.30	718	0.35	767	0.40	813	0.45	856	0.51	897	0.56	936	0.62	973	0.68
1440	578	0.24	639	0.29	694	0.35	745	0.41	793	0.46	838	0.52	880	0.58	920	0.64	958	0.70	995	0.76
																	2-hp d	oversize pu	ed mote lley	or and
Contir	nued																			

		Ext	ternal	Static	Pressu	ure (Ir	nches o	of Wat	er)	
	1.	10	1.	20	1.:	30	1.	40	1.!	50
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
			2-	hp ove	ersize m	notor a	nd pulle	∋y		
960	949	0.53	984	0.58	1017	0.63	1050	0.68	1081	0.73
1080	969	0.59	1004	0.64	1037	0.70	1070	0.75	1101	0.81
1200	989	0.66	1024	0.72	1057	0.77	1089	0.83	1120	0.89
1320	1009	0.74	1044	0.80	1077	0.86	1109	0.92	1140	0.98
1440	1030	0.82	1064	0.88	1097	0.95	1129	1.01	1160	1.08

Notes:

Notes:
 For Standard Evaporator Fan Speed (rpm), reference Table 11, p. 23.
 For Oversized Evaporator Fan Speed (rpm), reference Table 12, p. 23.
 For Oversized Evaporator Fan Speed (rpm), reference Table 12, p. 23.
 1-hp fan motor heat (MBh) = 2.8328 x Fan bhp. + 0.4714, 2-hp fan motor heat (MBh) = 2.7146 x Fan bhp. + 0.816.
 Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
 Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Table 6. Belt drive evaporator fan performance - 3 tons cooling only units - EBC036AD - horizontal airflow

						E	xterna	al Stat	tic Pre	essure	(Inch	nes of	Wate	r)						
	0.	0.10 0.20 0.30 0.40 0.50 0.60 0.7										70	0.	80	0.	90	1.0	00		
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
								1-	hp star	ndard r	notor a	nd pull	еу							
960					596	0.18	653	0.22	705	0.26	753	0.30	798	0.35	840	0.39	880	0.44	918	0.48
1080			561	0.17	622	0.21	678	0.26	729	0.30	776	0.35	820	0.40	862	0.45	901	0.50	939	0.55
1200			591	0.21	650	0.26	703	0.31	753	0.35	799	0.40	842	0.46	884	0.51	923	0.56	960	0.62
1320	559	0.21	621	0.26	678	0.31	730	0.36	778	0.41	823	0.47	866	0.52	906	0.58	945	0.63	982	0.69
1440	595	0.25	654	0.31	708	0.36	758	0.42	805	0.48	849	0.53	891	0.59	930	0.65	968	0.71	1005	0.77
															2-	hp ove	ersize n	notor a	nd pulle	әу

Contir	nued													
		Ext	ternal	Static	Pressu	ure (Ir	nches o	of Wat	er)					
	1.10 1.20 1.30 1.40 1.5													
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp				
			2-	hp ove	ersize m	notor a	nd pulle	эу						
960	954	0.53	989	0.58	1022	0.63	1054	0.69	1085	0.74				
1080	975	0.60	1010	0.65	1043	0.71	1075	0.76	1106	0.82				
1200	996	0.67	1030	0.73	1063	0.78	1095	0.84	1126	0.90				
1320	1017	0.75	1051	0.81	1084	0.87	1116	0.93	1147	0.99				
1440	1040	0.84	1073	0.90	1106	0.97	1137	1.03	1168	1.10				

Notes:

For Standard Evaporator Fan Speed (rpm), reference Table 11, p. 23.
 For Oversized Evaporator Fan Speed (rpm), reference Table 12, p. 23.
 1-hp fan motor heat (MBh) = 2.8328 x Fan bhp.+ 0.4714, 2-hp fan motor heat (MBh) = 2.7146 x Fan bhp. + 0.816.

4. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
 5. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.



Table 7. Belt drive evaporator fan performance - 4 tons cooling only units - EBC048AD - downflow airflow

						E	xtern	al Sta	tic Pre	essure	(Incl	nes of	Wate	r)						
	0.	10	0.	20	0.	30	0.	40	0.	50	0.	60	0.	70	0.	80	0.9	90	1.0	00
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
								1-	hp star	ndard r	notor a	nd pull	еу							
1280			618	0.22	674	0.27	726	0.31	774	0.36	819	0.40	862	0.45	902	0.50	940	0.55	977	0.60
1440			662	0.29	715	0.33	765	0.38	811	0.44	854	0.49	895	0.54	935	0.59	972	0.65	1008	0.70
1600	653	0.31	708	0.36	758	0.42	805	0.47	849	0.53	891	0.58	931	0.64	969	0.70	1005	0.76	1041	0.82
1760	695	0.38	746	0.44	794	0.49	840	0.55	882	0.61	923	0.68	961	0.74	999	0.80	1034	0.86	1069	0.93
1920	752	0.49	800	0.55	845	0.62	888	0.68	929	0.75	968	0.82	1005	0.88	1041	0.95	1075	1.02	1108	1.09
																	2-hp c	oversize pu	ed moto lley	or and
Contir	nued																			

		Ext	ternal	Static	Pressu	ure (Ir	nches d	of Wat	er)	
	1.	10	1.:	20	1.:	30	1.4	40	1.!	50
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
			2-	hp ove	ersize m	notor a	nd pulle	∋y		
1280	1012	0.65	1046	0.71	1079	0.76	1110	0.81	1141	0.87
1440	1043	0.76	1076	0.82	1109	0.87	1140	0.93	1170	0.99
1600	1074	0.88	1107	0.94	1139	1.00	1170	1.06	1200	1.13
1760	1102	0.99	1134	1.05	1165	1.12	1196	1.19	1225	1.25
1920	1141	1.16	1172	1.23	1203	1.30	1232	1.37	1261	1.44

Notes:

Notes:
 For Standard Evaporator Fan Speed (rpm), reference Table 11, p. 23.
 For Oversized Evaporator Fan Speed (rpm), reference Table 12, p. 23.
 For Oversized Evaporator Fan Speed (rpm), reference Table 12, p. 23.
 1-hp fan motor heat (MBh) = 2.8328 x Fan bhp. + 0.4714, 2-hp fan motor heat (MBh) = 2.7146 x Fan bhp. + 0.816.
 Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
 Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Table 8. Belt drive evaporator fan performance - 4 tons cooling only units - EBC048AD - horizontal airflow

						E	xterna	al Stat	tic Pre	ssure	(Inch	nes of	Water	.)						
	0.	10	0.	20	0.	30	0.	40	0.	50	0.	60	0.	70	0.3	80	0.9	90	1.0	00
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
								1-	hp star	ndard r	notor a	nd pull	ley							
1280			633	0.23	688	0.28	738	0.32	786	0.37	830	0.42	872	0.46	912	0.51	950	0.56	986	0.61
1440	623	0.25	680	0.30	732	0.35	780	0.40	825	0.45	868	0.50	908	0.56	947	0.61	984	0.67	1019	0.72
1600	675	0.33	728	0.38	777	0.44	823	0.49	866	0.55	907	0.61	946	0.66	984	0.72	1020	0.78	1054	0.84
1760	718	0.40	768	0.46	815	0.52	859	0.58	901	0.64	940	0.70	978	0.76	1015	0.82	1050	0.89	1084	0.95
1920	782	0.53	828	0.59	872	0.66	913	0.72	953	0.79	990	0.86	1027	0.93	1062	0.99	1096	1.06	1128	1.13
															2-1	np ove	rsized r	notor a	and pul	ey

Contir	Continued										
		Ext	ternal	Static	Pressu	ure (Ir	nches o	of Wat	er)		
	1.	10	1.:	20	1.3	30	1.	40	1.!	50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
			2-1	np ove	rsized r	notor a	and pul	еу			
1280	1021	0.67	1055	0.72	1087	0.77	1118	0.83	1149	0.88	
1440	1054	0.78	1087	0.83	1119	0.89	1150	0.95	1180	1.01	
1600	1088	0.90	1120	0.96	1152	1.03	1182	1.09	1212	1.15	
1760	1117	1.02	1148	1.08	1179	1.15	1209	1.21	1238	1.28	
1920	1160	1.20	1191	1.27	1221	1.34	1250	1.42	1279	1.49	

Notes:

For Standard Evaporator Fan Speed (rpm), reference Table 11, p. 23.
 For Oversized Evaporator Fan Speed (rpm), reference Table 12, p. 23.
 1-hp fan motor heat (MBh) = 2.8328 x Fan bhp.+ 0.4714, 2-hp fan motor heat (MBh) = 2.7146 x Fan bhp. + 0.816.

4. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
 5. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.



Table 9. Belt drive evaporator fan performance - 5 tons cooling only units - EBC060AD - downflow airflow

	External Static Pressure (Inches of Water)																			
	0.	10	0.	20	0.3	30	0.4	40	0.	50	0.	60	0.	70	0.	80	0.	90	1.0	00
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
								1-	hp star	ndard r	notor a	nd pull	еу							
1600	695	0.35	746	0.40	794	0.46	839	0.51	881	0.57	921	0.63	959	0.68	996	0.74	1032	0.80	1066	0.86
1800	766	0.48	813	0.54	857	0.60	899	0.66	938	0.72	977	0.79	1013	0.85	1048	0.91	1082	0.98	1115	1.05
2000	838	0.63	881	0.70	922	0.77	962	0.84	999	0.91	1035	0.98	1070	1.05	1104	1.12	1136	1.19	1168	1.26
2200	911	0.82	951	0.90	990	0.97	1027	1.05	1062	1.12	1096	1.20	1129	1.28	1161	1.35	1193	1.43	1223	1.51
2400	985	1.05	1022	1.13	1058	1.21	1093	1.30	1126	1.38	1159	1.46	1190	1.54	1221	1.63	1251	1.71	1280	1.80
													2-1	np ove	rsized r	notor a	and pul	ley		

Contin	Continued										
		Ext	ternal	Static	Pressu	ure (Ir	nches d	of Wat	er)		
	1.1	10	1.	20	1.3	30	1.4	40	1.	50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
			2-	hp ove	ersize m	notor a	nd pulle	∋у			
1600	1099	0.92	1131	0.99	1162	1.05	1192	1.11	1221	1.17	
1800	1147	1.11	1178	1.18	1208	1.25	1238	1.32	1266	1.39	
2000	1199	1.33	1229	1.41	1258	1.48	1286	1.56	1314	1.63	
2200	1252	1.59	1281	1.67	1309	1.75					
2400	1308	1.88									

Notes:

Notes:

 For Standard Evaporator Fan Speed (rpm), reference Table 11, p. 23.
 For Oversized Evaporator Fan Speed (rpm), reference Table 12, p. 23.
 For Oversized Evaporator Fan Speed (rpm), reference Table 12, p. 23.
 1-hp fan motor heat (MBh) = 2.8328 x Fan bhp.+ 0.4714, 2-hp fan motor heat (MBh) = 2.7146 x Fan bhp. + 0.816.
 Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
 Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Table 10. Belt drive evaporator fan performance - 5 tons cooling only units - EBC060AD - horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.	10	0.	20	0.	30	0.4	40	0.	50	0.	60	0.	70	0.3	80	0.9	90	1.0	00
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
								1-	hp star	ndard r	notor a	nd pull	еу							
1600	682	0.34	734	0.39	782	0.44	828	0.50	871	0.56	911	0.61	950	0.67	988	0.73	1023	0.79	1058	0.85
1800	750	0.46	798	0.52	843	0.58	885	0.64	926	0.70	965	0.77	1002	0.83	1037	0.89	1072	0.96	1105	1.02
2000	819	0.60	864	0.67	906	0.74	945	0.81	984	0.88	1020	0.95	1056	1.02	1090	1.09	1123	1.16	1155	1.23
2200	889	0.78	930	0.86	969	0.93	1007	1.01	1043	1.08	1078	1.16	1112	1.24	1144	1.31	1176	1.39	1207	1.47
2400	959	0.99	997	1.08	1034	1.16	1070	1.24	1104	1.32	1137	1.40	1169	1.49	1200	1.57	1231	1.66	1260	1.74
													2-1	np ove	rsized r	notor a	and pull	ley		

Contir	nued									
		Ext	ternal	Static	Pressu	ure (Ir	nches d	of Wat	er)	
	1.	10	1.:	20	1.:	30	1.	40	1.!	50
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
			2-1	hp ove	rsized r	notor a	and pul	ley		
1600	1091	0.91	1123	0.97	1154	1.03	1185	1.10	1214	1.16
1800	1137	1.09	1168	1.16	1199	1.23	1228	1.30	1257	1.36
2000	1186	1.30	1216	1.38	1246	1.45	1274	1.53	1302	1.60
2200	1237	1.55	1266	1.63	1294	1.71	1322	1.79		
2400	1289	1.82	1317	1.91						

Notes:

Notes:

 For Standard Evaporator Fan Speed (rpm), reference Table 11, p. 23.
 For Oversized Evaporator Fan Speed (rpm), reference Table 12, p. 23.
 For Oversized Evaporator Fan Speed (rpm), reference Table 12, p. 23.
 1-hp fan motor heat (MBh) = 2.8328 x Fan bhp.+ 0.4714, 2-hp fan motor heat (MBh) = 2.7146 x Fan bhp. + 0.816.
 Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
 Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.



Tons	Unit Model Number	Fan Sheave	6 Turns Open	5 Turns Open	4 Turns Open	3 Turns Open	2 Turns Open	1 Turn Open	Closed
3	EBC036AD	AK49X3/4"	544	608	672	736	800	864	928
4	EBC048AD	AK44X3/4"	612	684	756	828	900	972	1044
5	EBC060AD	AK41X3/4"	668	746	824	902	980	1058	1136

Table 11. Standard motor and drive/fan speed (rpm)

Note: Factory set at 3 turns open.

Table 12. Oversized motor and drive/fan speed (rpm)

Tons	Unit Model Number	Fan Sheave	6 Turns Open	5 Turns Open	4 Turns Open	3 Turns Open	2 Turns Open	1 Turn Open	Closed
3	EBC036AD	AK44X3/4"	N/A	864	956	1028	1100	1172	1224
4	EBC048AD	AK41X3/4"	N/A	934	1012	1090	1168	1246	1324
5	EBC060AD	AK41X3/4"	N/A	934	1012	1090	1168	1246	1324

Note: Factory set at 3 turns open.

Table 13. Static pressure drop through accessories (inches water column) - 3 to 5 tons

	Unit Model		Standard	2-in. MERV 13	Electric Heater A	ccessory (kW) ^(c)
Tons	Number	cfm	Filters ^(a)	Filters ^(b)	5-15	20-25
		960	0.01	0.08	0.01	0.01
3	EBC036A*	1200	0.02	0.10	0.02	0.02
		1440	0.03	0.12	0.02	0.03
		1280	0.03	0.11	0.02	0.03
4	EBC048A*	1600	0.04	0.14	0.04	0.05
		1920	0.06	0.16	0.05	0.08
		1600	0.04	0.14	0.04	0.05
5	EBC060A*	2000	0.06	0.17	0.06	0.08
		2400	0.08	0.20	0.08	0.12

(a) Tested with 2-inch standard filters.
(b) Tested with 2-inch MERV 13 filters 3–5 tons.
(c) Nominal kW ratings at 380 volts.

Table 14. Auxiliary electric heat capacity

		Tota	al ^(a)		Sta	age1	Sta	ge 2
		kW	MBh	No. of	kW	MBh	kW	MBh
Tons	Unit Model Number	Input ^(b)	Output	Stages	Input	Output	Input	Output
		4.7	16.05	1	4.7	16.05	-	-
3	EBC036AD	6.3	21.51	1	6.3	21.51	-	-
		9	30.73	1	9	30.73	-	-
		4.7	16.05	1	4.7	16.05	-	-
4		6.3	21.51	1	6.3	21.51	-	-
4	LDC048AD	9	30.73	1	9	30.73	-	-
		12.5	42.68	2	6.25	21.34	12.5	42.68
		4.7	16.05	1	4.7	16.05	-	-
		6.3	21.51	1	6.3	21.51	-	-
5	EBC060AD	9	30.73	1	9	30.73	-	-
		12.5	42.68	2	6.25	21.34	12.5	42.68
		15.7	53.6	2	7.85	26.8	15.7	53.6

(a) Heaters are rated at 415V. For other than rated voltage, CAP = (voltage/rated voltage)² x rated cap. (b) For all input/output categories, does not include fan power or heat.

Table 15.	Electric heater voltage	e correction factors	(applicable to au	xiliary heat capacity)
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Nominal Voltage	Distribution Voltage	Capacity Multiplier
	380	0.63
	400	0.69
	415	0.75
480	440	0.84
	460	0.92
	480	1
	506	1.11

Table 16. Air temperature rise across electric heaters (°F)

kW	Stages	3 Tons 940 CFM EBC036A*	4 Tons 1280 CFM EBC048A*	5 Tons 1640 CFM EBC060A*
4.7	1	15.81	11.61	9.06
6.3	1	21.19	15.56	12.14
9	1	30.27	22.23	17.35
12.5	2	-	30.87	24.09
15.7	2	-	-	30.26

Notes:

For minimum design airflow, see airflow performance table for each unit.
 To calculate temp rise at different airflow, use the following formula: Temp. rise across Electric Heater = kW x 3414/1.08 x cfm.



Controls

Thermostats

Non-Programmable Thermostat

TCONT402*** (3H/2C)



Programmable Thermostat TCONT802*** (3H/2C)



Three heat/Two cool Interactive touchscreen Large display Real time clock

Three heat/Two cool Auto-changeover Backlit Display & Keys Filter Reminder Keypad Lock Outdoor Temp Sensor Included



Electrical Data

			Standard Ind	loor Fan Motor	Oversized Inc	door Fan Motor
Tons	Unit Model Number	Unit Operating Voltage Range	Minimum Circuit Ampacity ^(a)	Maximum Fuse Size or Maximum Circuit Breaker	Minimum Circuit Ampacity	Maximum Fuse Size or Maximum Circuit Breaker
3	EBC036AD	380 ^(b)	11	15	12	15
4	EBC048AD	380 ^(b)	13	20	14	20
5	EBC060AD	380 ^(b)	14	20	15	20

Table 17. Unit wiring with cooling (no electric heat)

(a) For Standard and Oversized Indoor Fan Motor, values do not include power exhaust accessory.(b) Unit will operate reliably at 400Vac.

Table 18. Unit wiring with electric heat (single point connection)

						Standard Indoor Motor		Oversized I	ndoor Motor
Tons	Unit Model Number	Heater Model Number	Heater kW Rating ^(a)	Control Stages	Heater Amps	Minimum Circuit Ampacity	Max Fuse Size or Max Circuit Breaker	Minimum Circuit Ampacity	Max Fuse Size or Max Circuit Breaker
		•	, ,	380	0 Volts Tl	hree Phase ^(b)	•		-
		BAYHTFA407A	4.7	1	7.1	12	15	13	15
3	EBC036AD	BAYHTFA410A	6.3	1	9.6	15	15	16	20
		BAYHTFA415A	9.0	1	13.7	21	25	21	25
		BAYHTFA407A	4.7	1	7.1	13	20	14	20
4		BAYHTFA410A	6.3	1	9.6	15	20	16	20
4	LDC040AD	BAYHTFA415A	9.0	1	13.7	21	25	21	25
		BAYHTFA420A	12.5	2	19.0	27	30	28	30
		BAYHTFA407A	4.7	1	7.1	14	20	15	20
		BAYHTFA410A	6.3	1	9.6	15	20	16	20
5	EBC060AD	BAYHTFA415A	9.0	1	13.7	21	25	21	25
		BAYHTFA420A	12.5	2	19.0	27	30	28	30
		BAYHTFA425A	15.7	2	23.9	33	35	34	35

(a) Heater kW ratings are at 480V for 380V units.(b) Unit will operate reliably at 400Vac

Table 19. Electrical characteristics-compressor motor and condenser motor

				Compressor Motors						Со	ndense	r Fan Motor	s
	Unit						Amp	os ^(a)				Amp	os ^(a)
Tons	Model No.	Volts	No.	Phase	HP	RPM	FLA	LRA	No.	Phase	HP	FLA	LRA
3	EBC036AD	380 ^(b)	1	3	4.2	3500	6.0	43.0	1	3	0.33	0.7	2.3
4	EBC048AD	380 ^(b)	1	3	5.4	3500	7.8	52.0	1	3	0.33	0.7	2.3
5	EBC060AD	380 ^(b)	1	3	5.9	3500	8.5	67.0	1	3	0.33	0.7	2.3

(a) For Compressor Motors and Condenser Fan Motors: Amp draw for each motor; multiply value by number of motors to determine total amps. (b) Unit will operate reliably at 400Vac.



		Standard Evaporator Fan Motor									orator	Fan Mote	or
	Unit Model					Am	nps					An	nps
Tons	Number	No.	Volts	Phase	HP	FLA	LRA	No.	Volts	Phase	HP	FLA	LRA
3	EBC036AD	1	380 ^(a)	3	1	2	12.5	1	380 ^(a)	3	2	3	26.2
4	EBC048AD	1	380 ^(a)	3	1	2	12.5	1	380 ^(a)	3	2	3	26.2
5	EBC060AD	1	380 ^(a)	3	1	2	12.5	1	380 ^(a)	3	2	3	26.2

Table 20. Electrical characteristics-evaporator fan motor

(a) Unit will operate reliably at 400Vac.



Jobsite Connections

Table 21.	Typical	number	of	wires
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Thermos	stats				
A 5 or 6 wires					
В	3 Power Wires + 1 Ground Wire (three phase)				



Notes:

- For specific wiring information, see the installation instructions.
- All wiring except power wire is low voltage.
- All customer supplied wiring to be copper and must conform to applicable electrical codes and local electric codes. Wiring shown dotted is to be furnished and installed by the customer.



Dimensional Data



Cooling with optional electrical heat units - overview Figure 1.

Figure 2. Cooling with optional electrical heat units - front & side views - 3-5 tons





NOTES: 1. THRU-THE-BASE ELECTRICAL IS NOT STANDARD ON ALL UNITS. 2. VERIFY WEIGHT, CONNECTION, AND ALL DIMENSION WITH INSTALLER DOCUMENTS BEFORE INSTALLATION





Figure 3. Cooling with optional electrical heat - plan view - 3-5 tons







Dimensional Data



Figure 5. Cooling with optional electric heat - roof curb -3-5 tons

Figure 6. Cooling with optional electric heat – downflow unit clearance – 3-5 tons





Figure 7. Cooling with optional electric heat models – manual damper – 3-5 tons

RIGHT VIEW OF UNIT

BACK VIEW OF UNIT

NOTE: VERIFY WEIGHT, CONNECTION, AND ALL DIMENSIONS WIT INSTALLER DOCUMENTS BEFORE INSTALLATION.



Weights

Table 22. Maximum unit & corner weights (lb) and center of gravity dimensions (in.) cooling with optional electric heat units only

	Unit	Weights	(lb) ^{(a), (b)}		Corner W	Center of Gravity (in.)			
Tons	Model No.	Shipping	Net	Α	В	С	D	Length	Width
3	EBC036*	542	492	90	102	159	141	41	29
4	EBC048*	570	520	104	108	157	152	39	28
5	EBC060*	590	540	113	112	157	158	38	28

 (a) Weights are approximate.
 (b) Weights do not include additional factory or field installed options/accessories. For option/accessory additional weights, reference Table 23, p. 33 to be added to unit weights.

(c) Corner weights are given for information only.



Figure 8. Center of gravity - 3-5 tons

Table 23.	Accessory	/ net weight	(lb) ^{(a), (b)} , ^(c)	
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Accessories	EBC036-060
Manual Outside Air Damper	16
Roof Curb	61
Oversized Motor	5
Hail Guard	12
Electric Heaters	15

(a) Net weight should be added to unit weight when ordering factory-installed accessories.
(b) Weights for factory installed options and field installed accessories not listed are < 5 lb.
(c) To estimate shipping weight add 5 lb to net weight.



Mechanical Specifications

General

The units shall be dedicated downflow or horizontal airflow. The operating range shall be between 125°F and 45°F in cooling as standard from the factory for all units. Cooling performance shall be rated in accordance with ARI testing procedures. All units shall be factory assembled, internally wired, fully charged with R-410A, and 100 percent run tested to check cooling operation, fan and blower rotation and control sequence, before leaving the factory. Wiring internal to the unit shall be colored and numbered for simplified identification. Units shall be UL listed and labeled, classified in accordance to UL 1995/C 22.2, 236-15 5th Edition.

Casing

Unit casing shall be constructed of zinc coated, heavy gauge, galvanized steel. Exterior surfaces shall be cleaned, phosphatized, and finished with a weather-resistant baked enamel finish. Unit's surface shall be tested 672 hours in a salt spray test in compliance with ASTM B117. Cabinet construction shall allow for all maintenance on one side of the unit. In order to ensure a water and air tight seal, service panels shall have lifting handles and no more than four screws to remove. All exposed vertical panels and top covers in the indoor air section shall be insulated with a 1/2-inch, 1-pound density foil-faced, fire-resistant, permanent, odorless, glass fiber material. The base of the downflow unit shall be insulated with 1/2-inch, 1-pound density foil-faced, closed-cell material. The downflow unit's base pan shall have no penetrations within the perimeter of the curb other than the raised 1 1/8-inch high supply/return openings to provide an added water integrity precaution, if the condensate drain backs up. The base of the unit shall have provisions for forklift and crane lifting.

Compressors

All units shall have direct-drive, hermetic, scroll type compressors with centrifugal type oil pumps. Motor shall be suction gas-cooled and shall have a voltage utilization range of plus or minus 10 percent of nameplate voltage. Internal overloads shall be provided with the scroll compressors. All models shall have phase monitors, low and high pressure controls, and locking safety device as standard.

Controls

Unit shall be completely factory wired with necessary controls and contactor pressure lugs or terminal block for power wiring. Unit shall provide an external location for mounting a fused disconnect device.

Discharge Line Thermostat

A bi-metal element discharge line thermostat is installed as a standard option on the discharge line of each system. This standard option provides extra protection to the compressors against high discharge temperatures in case of loss of charge, extremely high ambient and other conditions which could drive the discharge temperature higher. Discharge line thermostat is wired in series with high pressure control. When the discharge temperature rises above the protection limit, the bi-metal disc in the thermostat switches to the off position, opening the 24 Vac circuit. When the temperature on the discharge line cools down, the bi-metal disc closes the contactor circuit, providing power to the compressor.

Evaporator and Condenser Coils

Microchannel coils will be burst tested by the manufacturer. Microchannel condenser and evaporator coils shall be standard on all units. Coils shall be leak tested to ensure the pressure integrity. The evaporator coil and condenser coil shall be leak tested to 225 psig and pressure tested to 450 psig. Sloped condensate drain pans are standard.

Filters

Two inch standard filters shall be factory supplied on all units.



High Pressure Control

All units include High Pressure Cutout as standard.

Indoor Fan

Units above shall have belt driven, FC centrifugal fans with adjustable motor sheaves. All motors shall be thermally protected. Oversized motors shall be available for high static application. All indoor fan motors meet the U.S. Energy Policy Act of 1992 (EPACT).

Locking Safety Device

Pressure switch monitoring allows for lockout in a situation where the switch is opened. By monitoring the Y input as well as the pressure switches, advanced decision making can be made to identify situations where faults/errors occur.

Low Pressure Control

All units include low pressure cutout as standard.

Outdoor Fans

The outdoor fan shall be direct-drive, statically and dynamically balanced, draw-through in the vertical discharge position. The fan motor(s) shall be permanently lubricated and shall have built-in thermal overload protection.

Phase Monitor

The Phase Monitor is a three-phase line monitor module that protects against phase loss, phase reversal and phase unbalance. It is intended to protect compressors from reverse rotation. It has an operating input voltage range of 190–600 Vac, and LED indicators for ON and FAULT. There are no field adjustments and the module will automatically reset from a fault condition.

Refrigerant Circuits

Each refrigerant circuit shall have independent thermal expansion valve, service pressure ports, and refrigerant line filter driers factory installed as standard. An area shall be provided for replacement suction line driers.

Unit Top

The top cover shall be double hemmed and gasket sealed to prevent water leakage.

Factory Installed Options

Complete Coat[™] Microchannel Condenser Coil

The cathodic epoxy type electrodisposition coating is formulated for high edge build to a number of different types of heat exchangers. The coating is selected to provide excellent resistance and durability to corrosive effects of alkalies, acids, alcohols, petroleum, seawater, salty air, and other corrosive environments. This coating shall be available on microchannel condenser coils.

Factory or Field Installed Options

Condensate Overflow Switch

This option shall shut the unit down in the event that a clogged condensate drain line prevents proper condensate removal from the unit.

Electric Heaters

Electric heat modules shall be available for installation within the basic unit. Electric heater elements shall be constructed of heavy-duty nickel chromium elements internally delta connected for 240 volt, wye connected for 380, 480 and 600 volt. Each heater package shall have automatically reset high limit control operating as line break limits. Power assemblies shall provide single-point



Mechanical Specifications

connection. Electric heat modules shall be UL listed or CSA certified. If ordering the Through the Base Electrical option with an Electric Heater, the heater must be factory installed.

Manual Outside Air Damper

The rain hood and screen shall provide up to 50% outside air.

Oversized Motors

Oversized motors shall be available for high static applications.

Field Installed Options

Crankcase Heaters

These band heaters provide improved compressor reliability by warming the oil to prevent migration during off-cycles or low ambient conditions.

Low Ambient Kit

Allows system to operate in cooling below 45 degree by maintaining head pressure by cycling the outdoor fan motor allowing safe system operation without indoor coil icing.

Roof Curb-Downflow

The roof curb shall be designed to mate with the downflow unit and provide support and a water tight installation when installed properly. The roof curb design shall allow field-fabricated rectangular supply/return ductwork to be connected directly to the curb. Curb shall be shipped knocked down for field assembly and shall include wood nailer strips.

Tool-less Hail Guards

Tool-less, hail protection quality coil guards are available for condenser coil protection.

Two-Inch Pleated Filters

Two-inch MERV 13 filters shall be available on all models.

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