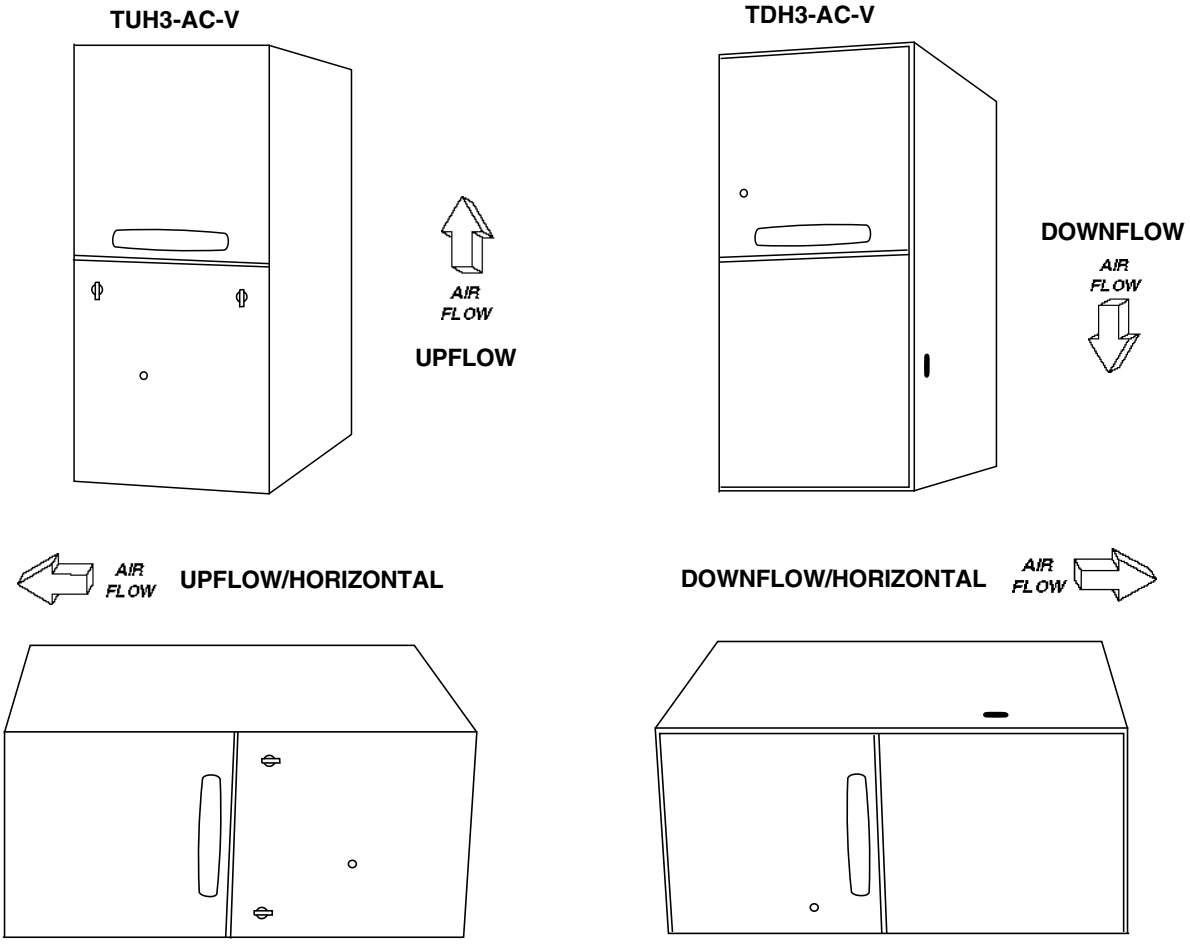
# Communicating Only Upflow/Horizontal Left Downflow/Horizontal Right Direct/Non-Direct Vent 3 Stage Gas Furnace with Variable Speed Inducer

# XC 95

**TUH3B060ACV3VA, TDH3B060ACV3VA**
**TUH3B080ACV3VA, TDH3B080ACV3VA**
**TUH3C100ACV4VA, TDH3C100ACV4VA**
**TUH3D120ACV5VA, TDH3D120ACV5VA**
**Direct or Non-Direct Vent with**
**Variable Speed Blower**
**Variable Speed Inducer**




**PUB. NO. 22-1806-04**

# General Features

**3 STAGE OPERATION**
The new 3 stage modulating gas valves provides longer heating cycles for more consistent heating comfort. Modulates down to 40% (45% for the TUH3D120) of the normal firing rates, saving energy, while at the same time providing maximum homeowner comfort.

**COMFORT CONTROL**
Comfortlink II™ Communicating furnace design, offers plug and play – walk away installation. Assures the entire heating and air conditioning system is set up in the proper modes to optimize the engineered performance of the matched system installed.

**NATURAL GAS MODELS**
Central Heating furnace designs are certified by the American Gas Association for both natural and L.P. gas. Limit setting and rating data were established and approved under standard rating conditions using American National Standards Institute standards.

**SAFE OPERATION**
The Integrated System Control has solid state devices, which continuously monitor for presence of flame, when the system is in the heating mode of operation. Dual solenoid combination gas valve and regulator provide additional safety.

**QUICK HEATING**
Durable, cycle tested, heavy gauge **aluminized steel heat exchanger** quickly transfers heat to provide warm conditioned air to the structure. **Low energy power vent blower,** to increase efficiency and provide a positive discharge of gas fumes to the outside.

**BURNERS**
Multiport Inshot burners will give years of quiet and efficient service. All models can be converted to **L.P. gas** without changing burners.

**INTEGRATED SYSTEM CONTROL**
Exclusively designed operational program provides total control of furnace limit sensors, blowers, gas valve, flame control and includes self diagnostics for ease of service. Also contains connection points for EAC and Humidifier.

**AIR DELIVERY**
The variable speed blower motor has sufficient airflow for most heating and cooling requirements and will switch from heating to cooling speeds on demand from room thermostat. The blower door safety switch will prevent or terminate furnace operation when the blower door is removed.

**SECONDARY HEAT EXCHANGER**
The XC95 has a special type 29-4C™ stainless steel secondary heat exchanger to reclaim heat from flue gases which would normally be lost.

**STYLING**
**Heavy gauge steel and "wrap-around" cabinet construction** is used in the cabinet with baked-on enamel finish for strength and beauty. The heat exchanger section of the cabinet is completely lined with foil faced fiberglass insulation. This results in quiet and efficient operation due to the excellent acoustical and insulating qualities of fiberglass. Built-in bottom pan and alternate bottom, left or right side return air connection provision.

**FEATURES AND GENERAL OPERATION**
The XC95 High Efficiency Gas Furnaces utilize an Adaptive Heat Up Silicon Nitride Hot Surface Ignition system, which eliminates the waste of a constant burning pilot. The integrated system control lights the main burners upon a demand for heat from the room thermostat. Complete front service access.

a. Low energy power venter
b. Vent proving pressure switch.



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# Contents

# Features and Benefits

## XC 95 STANDARD EQUIPMENT

- Comfortlink II™ Communicating only furnace design
- Requires comfort control TCONT900AC43UA
- For use with communicating outdoor product or single stage - cooling only outdoor units
- Plug and play installation
- Three wire connections to Comfort Control
- Upflow models convertible to Horizontal Left
- Downflow models convertible to Horizontal Right
- Power supply 115/1/60
- 3-stage modulating gas valve
- Variable speed ECM blower motor with Comfort R™
- Variable speed induced draft blower
- Silicon Nitride hot surface igniter with adaptive heat up
- PVC Venting - 1 or 2 pipe option
- Integrated solid state control with self-diagnostics
- Stored fault code history in microprocessor nonvolatile memory
- Insulated blower door
- Gasketed blower door
- Attractive color accents
- Heavy gauge aluminized steel heat exchanger
- Multi-port In-shot burners
- Complete front service access
- Slide out blower assembly
- Direct / Non-direct Vent Option
- Optional L.P conversion kit
- Left/right gas connection
- Accessory hook-up capability
- Manual reset flame roll out switches
- Cleanable high velocity filters*
- Hinged blower door *
- Perfect fit door latches*
- **Optional extended warranties**

* (Upflow only)



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# Features and Benefits

**XC 95 OPTIONAL EQUIPMENT**

XL900 Thermostat, Communicating ..... TCONT900AC43UA [ ]
Propane Conversion Kit ..... BAYLPKT220A [ ]
Propane Conversion Kit (with stainless steel burners) ..... BAYLPSS220A [ ]
Media Air Filter, “Perfect Fit” High Efficiency (17-1/2" Wide Gas Furnace) ..... TFM175A9FR0 [ ]
Media Air Filter, “Perfect Fit” High Efficiency (21" Wide Gas Furnace) ..... TFM210A9FR0 [ ]
Media Air Filter, “Perfect Fit” High Efficiency (24-1/2" Wide Gas Furnace) ..... TFM245A9FR0 [ ]
Media Air Filter, “Perfect Fit” Standard Efficiency (17-1/2" Wide Gas Furnace) ..... TFP175A9FR0 [ ]
Media Air Filter, “Perfect Fit” Standard Efficiency (21" Wide Gas Furnace) ..... TFP210A9FR0 [ ]
Media Air Filter, “Perfect Fit” Standard Efficiency (24-1/2" Wide Gas Furnace) ..... TFP245A9FR0 [ ]
Coil Enclosure (17-1/2" Wide Cabinets) ..... BAYCLE17A1722A [ ]
Coil Enclosure (21" Wide Cabinets) ..... BAYCLE21A2130A [ ]
Coil Enclosure (24-1/2" Wide Cabinets) ..... BAYCLE24A2430A [ ]
Downflow Subbase ..... BAYBASE205 [ ]
Side Filter Rack ..... BAYFLTR200 [ ]
Filter Rack Kit - Left & bottom return only for TUH3B060,080,C100. Left, right & bottom returns for TUH3D120 .... BAYRACK960 [ ]
Filter Kit/Horizontal Conversion TUH3B060,080 ..... BAYFLTR203 [ ]
Filter Kit/Horizontal Conversion TUH3C100 ..... BAYFLTR204 [ ]
Filter Kit/Horizontal Conversion TUH3D120 ..... BAYFLTR205 [ ]
High Altitude Pressure Switch Kit TUH3B060 ..... BAYSWT07AHALTA [ ]
High Altitude Pressure Switch Kit TUH3B080,C100 ..... BAYSWT09AHALTA [ ]
High Altitude Pressure Switch Kit TUH3D120 ..... BAYSWT08AHALTA [ ]
Concentric Vent Kit TUH3 Furnaces ..... BAYAIR30AVENTA [ ]
Sidewall Vent Termination Kit All 2 Pipe Direct Vent Furnaces ..... BAYVENT200B [ ]
Cleanable Filter (14.5"/17.5" wide Upflow models) ..... BAYFLTR317 [ ]
Cleanable Filter (21" wide Upflow models) ..... BAYFLTR321 [ ]
Cleanable Filter (24.5" wide Upflow models) ..... BAYFLTR324 [ ]
CleanEffects™, Whole House Air Cleaner (Upflow 17-1/2" Wide Gas Furnace) ..... TFD175ALFR000B [ ]
CleanEffects™, Whole House Air Cleaner (Upflow 21" Wide Gas Furnace) ..... TFD210ALFR000B [ ]
CleanEffects™, Whole House Air Cleaner (Upflow 24-1/2" Wide Gas Furnace) ..... TFD245ALFR000B [ ]
CleanEffects™, Whole House Air Cleaner (Downflow 17-1/2" Wide Gas Furnace) ..... TFD17DALFR000B [ ]
CleanEffects™, Whole House Air Cleaner (Downflow 21" Wide Gas Furnace) ..... TFD21DALFR000B [ ]
CleanEffects™, Whole House Air Cleaner (Downflow 24-1/2" Wide Gas Furnace) ..... TFD24DALFR000B [ ]
CleanEffects™, Whole House Upgrade Kit (Upflow 17-1/2" Wide Gas Furnace) ..... TFD175ALUPGRDA [ ]
CleanEffects™, Whole House Upgrade Kit (Upflow 21" Wide Gas Furnace) ..... TFD210ALUPGRDA [ ]
CleanEffects™, Whole House Upgrade Kit (Upflow 24-1/2" Wide Gas Furnace) ..... TFD245ALUPGRDA [ ]
CleanEffects™, Whole House Upgrade Kit (Downflow 17-1/2" Wide Gas Furnace) ..... TFD17DALUPGRDA [ ]
CleanEffects™, Whole House Upgrade Kit (Downflow 21" Wide Gas Furnace) ..... TFD21DALUPGRDA [ ]
CleanEffects™, Whole House Upgrade Kit (Downflow 24-1/2" Wide Gas Furnace) ..... TFD24DALUPGRDA [ ]
CleanEffects™, Whole House Transformer Kit (120 to 24 Volt - all TFD Air Cleaners) ..... BAYTRANS12024 [ ]
CleanEffects™ Connection Kit for 3 Stage Furnace ..... BAYACCECOMM100 [ ]

# General Data

## TUH3 PRODUCT SPECIFICATIONS①

| MODEL | *UH3B060ACV3VA | *UH3B080ACV3VA | *UH3C100ACV4VA | *UH3D120ACV5VA |
|---|---|---|---|---|
| **TYPE** | Upflow/ Horizontal Left | Upflow/ Horizontal Left | Upflow/ Horizontal Left | Upflow/ Horizontal Left |
| **RATINGS** ② | | | | |
| 1st Stage Input BTUH | 24,000 | 32,000 | 40,000 | 54,000 |
| 1st Stage Output Capacity BTUH (ICS) ③ | 23,000 | 30,000 | 38,000 | 52,000 |
| 2nd Stage Input BTUH | 41,000 | 54,000 | 68,000 | 82,000 |
| 2nd Stage Output Capacity (ICS) ⑥ | - | - | - | - |
| 3rd Stage Input BTUH | 60,000 | 80,000 | 100,000 | 120,000 |
| 3rd Stage Output Capacity BTUH (ICS) ③ | 57,000 | 75,000 | 95,000 | 114,000 |
| Temp. rise (Min.-Max.) °F. | 35 - 65 | 35 - 65 | 35 - 65 | 40 - 70 |
| AFUE | 95.0 | 95.0 | 95.0 | 95.0 |
| **BLOWER DRIVE** | DIRECT | DIRECT | DIRECT | DIRECT |
| Diameter - Width (In.) | 10 x 8 | 10 x 8 | 10 x 10 | 10 x 10 |
| No. Used | 1 | 1 | 1 | 1 |
| Speeds (No.) | Variable | Variable | Variable | Variable |
| CFM vs. in. w.g. | See Fan Performance Table | See Fan Performance Table | See Fan Performance Table | See Fan Performance Table |
| Motor HP | 1/2 | 1/2 | 1 | 1 |
| R.P.M. | Variable | Variable | Variable | Variable |
| Volts / Ph / Hz | 115/1/60 | 115/1/60 | 115/1/60 | 115/1/60 |
| **COMBUSTION FAN - Type** | Centrifugal | Centrifugal | Centrifugal | Centrifugal |
| Drive - No. Speeds | Direct - Variable | Direct - Variable | Direct - Variable | Direct - Variable |
| Motor HP - RPM | 1/50 - 5000 | 1/50 - 5000 | 1/50 - 5000 | 1/50 - 5000 |
| Volts / Ph / Hz | 33 - 110/3/60 - 180 | 33 - 110/3/60 - 180 | 33 - 110/3/60 - 180 | 33 - 110/3/60 - 180 |
| FLA | 1.0 | 1.0 | 1.0 | 1.0 |
| **FILTER — Furnished?** | Yes | Yes | Yes | Yes |
| Type Recommended | High Velocity | High Velocity | High Velocity | High Velocity |
| Hi Vel. (No.-Size-Thk.) | 1 - 17x25 - 1 in. | 1 - 17x25 - 1 in. | 1 - 20x25 - 1 in. | 1 - 24x25 - 1 in. |
| **VENT — Size (in.)** | 2 Round | 2 Round | 3 Round | 3 Round |
| **HEAT EXCHANGER** | | | | |
| Type -Fired | Aluminized Steel - Type I | Aluminized Steel - Type I | Aluminized Steel - Type I | Aluminized Steel - Type I |
| -Unfired | | | | |
| Gauge (Fired) | 20 | 20 | 20 | 20 |
| **ORIFICES — Main** | | | | |
| Nat. Gas. Qty. — Drill Size | 3 — 45 | 4 — 45 | 5 — 45 | 6 — 45 |
| L.P. Gas Qty. — Drill Size ⑤ | 3 — 51 | 4 — 51 | 5 — 51 | 6 — 51 |
| **GAS VALVE** | Redundant - Three Stage | Redundant - Three Stage | Redundant - Three Stage | Redundant - Three Stage |
| **PILOT SAFETY DEVICE** | | | | |
| Type | Hot Surface Igniter | Hot Surface Igniter | Hot Surface Igniter | Hot Surface Igniter |
| **BURNERS — Type** | Multiport Inshot | Multiport Inshot | Multiport Inshot | Multiport Inshot |
| Number | 3 | 4 | 5 | 6 |
| **POWER CONN. — V / Ph / Hz** ④ | 115/1/60 | 115/1/60 | 115/1/60 | 115/1/60 |
| Ampacity (In Amps) | 11.1 | 11.1 | 13.5 | 15.2 |
| Max. Overcurrent Protection (Amps) | 15 | 15 | 20 | 20 |
| **PIPE CONN. SIZE (IN.)** | 1/2 | 1/2 | 1/2 | 1/2 |
| **DIMENSIONS** | H x W x D | H x W x D | H x W x D | H x W x D |
| Crated (In.) | 41-3/4 x 19-1/2 x 30-1/2 | 41-3/4 x 19-1/2 x 30-1/2 | 41-3/4 x 23 x 30-1/2 | 41-3/4 x 26-1/2 x 30-1/2 |
| **WEIGHT** | | | | |
| Shipping (Lbs.) / Net (Lbs) | 158 / 146 | 168 / 156 | 197 / 185 | 206 / 193 |

① Central Furnace heating designs are certified by AGA and CSA.
② For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level.
For Canadian applications, above input ratings (BTUH) are up to 4,500 feet, derate 4% per 1,000 feet for elevations above 4,500 feet above sea level.
③ Based on U.S. government standard tests.
④ The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.
⑤ Furnace ships in natural gas configuration. The LP conversion kit used with the 3 stage furnace is BAYLPSS220A or BAYLPKT220A.
⑥ Second stage output capacity is approximately equal to 65% of third stage output capacity. There is no testing protocol for this value.


Pub. No. 22-1806-04

# General Data

## TDH3 PRODUCT SPECIFICATIONS

| MODEL | *DH3B060ACV3VA | *DH3C080ACV3VA | *DH3C100ACV4VA | *DH3D120ACV5VA |
|---|---|---|---|---|
| **TYPE** | Downflow / Horizontal Right | Downflow / Horizontal Right | Downflow / Horizontal Right | Downflow / Horizontal Right |
| **RATINGS** ② | | | | |
| 1st Stage Input BTUH | 24,000 | 32,000 | 40,000 | 48,000 |
| 1st Stage Output Capacity BTUH (ICS) ③ | 22,000 | 30,000 | 38,000 | 46,000 |
| 2nd Stage Input BTUH | 41,000 | 54,000 | 68,000 | 82,000 |
| 2nd Stage Output Capacity (ICS) ⑥ | - | - | - | - |
| 3rd Stage Input BTUH | 60,000 | 80,000 | 100,000 | 120,000 |
| 3rd Stage Output Capacity BTUH (ICS) ③ | 56,000 | 74,000 | 95,000 | 114,000 |
| Temp. rise (Min.-Max.) °F. | 35 - 65 | 35 - 65 | 35 - 65 | 40 - 70 |
| AFUE | 92.1 | 95.0 | 95.0 | 92.1 |
| **BLOWER DRIVE** | DIRECT | DIRECT | DIRECT | DIRECT |
| Diameter - Width (In.) | 10 x 8 | 10 x 8 | 10 x 10 | 10 x 10 |
| No. Used | 1 | 1 | 1 | 1 |
| Speeds (No.) | Variable | Variable | Variable | Variable |
| CFM vs. in. w.g. | See Fan Performance Table | See Fan Performance Table | See Fan Performance Table | See Fan Performance Table |
| Motor HP | 1/2 | 1/2 | 3/4 | 1 |
| R.P.M. | Variable | Variable | Variable | Variable |
| Volts / Ph / Hz | 115/1/60 | 115/1/60 | 115/1/60 | 115/1/60 |
| **COMBUSTION FAN - Type** | Centrifugal | Centrifugal | Centrifugal | Centrifugal |
| Drive - No. Speeds | Direct - Variable | Direct - Variable | Direct - Variable | Direct - Variable |
| Motor HP - RPM | 1/50 - 5000 | 1/50 - 5000 | 1/50 - 5000 | 1/50 - 5000 |
| Volts / Ph / Hz | 33 - 110/3/60 - 180 | 33 - 110/3/60 - 180 | 33 - 110/3/60 - 180 | 33 - 110/3/60 - 180 |
| FLA | 1.0 | 1.0 | 1.0 | 1.0 |
| **FILTER — Furnished?** | Yes | Yes | Yes | Yes |
| Type Recommended | High Velocity | High Velocity | High Velocity | High Velocity |
| Hi Vel. (No.-Size-Thk.) | 2 - 14x20 - 1 in. | 2 - 14x20 - 1 in. | 2 - 16x20 - 1 in. | 2 - 16x20 - 1 in. |
| **VENT — Size (in.)** | 2 Round | 2 Round | 3 Round | 3 Round |
| **HEAT EXCHANGER** | | | | |
| Type -Fired<br>-Unfired | Aluminized Steel - Type I | Aluminized Steel - Type I | Aluminized Steel - Type I | Aluminized Steel - Type I |
| Gauge (Fired) | 20 | 20 | 20 | 20 |
| **ORIFICES — Main** | | | | |
| Nat. Gas. Qty. — Drill Size | 3 — 45 | 4 — 45 | 5 — 45 | 6 — 45 |
| L.P. Gas Qty. — Drill Size ⑤ | 3 — 51 | 4 — 51 | 5 — 51 | 6 — 51 |
| **GAS VALVE** | Redundant - Three Stage | Redundant - Three Stage | Redundant - Three Stage | Redundant - Three Stage |
| **PILOT SAFETY DEVICE** | | | | |
| Type | Hot Surface Igniter | Hot Surface Igniter | Hot Surface Igniter | Hot Surface Igniter |
| **BURNERS — Type** | Multiport Inshot | Multiport Inshot | Multiport Inshot | Multiport Inshot |
| Number | 3 | 4 | 5 | 6 |
| **POWER CONN. — V / Ph / Hz** ④ | 115/1/60 | 115/1/60 | 115/1/60 | 115/1/60 |
| Ampacity (In Amps) | 11.1 | 11.1 | 13.5 | 15.2 |
| Max. Overcurrent Protection (Amps) | 15 | 15 | 20 | 20 |
| **PIPE CONN. SIZE (IN.)** | 1/2 | 1/2 | 1/2 | 1/2 |
| **DIMENSIONS** | H x W x D | H x W x D | H x W x D | H x W x D |
| Crated (In.) | 41-3/4 x 19-1/2 x 30-1/2 | 41-3/4 x 19-1/2 x 30-1/2 | 41-3/4 x 23 x 30-1/2 | 41-3/4 x 26-1/2 x 30-1/2 |
| **WEIGHT** | | | | |
| Shipping (Lbs.) / Net (Lbs) | 160/ 146 | 168 / 158 | 185 / 175 | 206 / 196 |

① Central Furnace heating designs are certified by AGA and CSA.
② For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level.
For Canadian applications, above input ratings (BTUH) are up to 4,500 feet, derate 4% per 1,000 feet for elevations above 4,500 feet above sea level.
③ Based on U.S. government standard tests.
④ The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.
⑤ Furnace ships in natural gas configuration. The LP conversions kit used with the 3 stage furnace is BAYLPSS220A.
⑥ Second stage output capacity is approximately equal to 65% of third stage output capacity. There is no testing protocol for this value.

# *UH3 AIRFLOW - HEATING

| | *UH3B060ACV3VA** Furnace Heating Airflow (CFM) and Power (watts) vs. External Static Pressure With Filter | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Airflow Setting | Target Airflow (See Note 5) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating | Heating 1st Stage | Low | 710 | CFM | 657 | 735 | 744 | 758 | 759 |
| | | | | Temp. Rise | 45 | 41 | 40 | 39 | 39 |
| | | | | Watts | 70 | 116 | 156 | 201 | 245 |
| | | Medium Low | 750 | CFM | 701 | 773 | 782 | 794 | 794 |
| | | | | Temp. Rise | 41 | 37 | 37 | 36 | 36 |
| | | | | Watts | 79 | 126 | 168 | 215 | 259 |
| | | Medium** | 790 | CFM | 745 | 810 | 819 | 830 | 829 |
| | | | | Temp. Rise | 36 | 33 | 33 | 33 | 33 |
| | | | | Watts | 88 | 137 | 181 | 229 | 274 |
| | | High | 900 | CFM | 865 | 914 | 922 | 928 | 925 |
| | | | | Temp. Rise | 31 | 29 | 29 | 29 | 29 |
| | | | | Watts | 121 | 173 | 222 | 272 | 322 |
| | Heating 2nd Stage | Low | 810 | CFM | 767 | 829 | 838 | 847 | 847 |
| | | | | Temp. Rise | 59 | 55 | 54 | 53 | 53 |
| | | | | Watts | 94 | 143 | 188 | 236 | 282 |
| | | Medium Low | 860 | CFM | 821 | 876 | 884 | 892 | 890 |
| | | | | Temp. Rise | 54 | 50 | 50 | 50 | 50 |
| | | | | Watts | 108 | 159 | 206 | 256 | 303 |
| | | Medium** | 900 | CFM | 865 | 914 | 922 | 928 | 925 |
| | | | | Temp. Rise | 51 | 48 | 48 | 48 | 48 |
| | | | | Watts | 121 | 173 | 222 | 272 | 322 |
| | | High | 1030 | CFM | 1007 | 1036 | 1043 | 1045 | 1039 |
| | | | | Temp. Rise | 42 | 41 | 41 | 41 | 41 |
| | | | | Watts | 171 | 227 | 282 | 335 | 388 |
| | Heating 3rd Stage | Low | 1010 | CFM | 985 | 1017 | 1024 | 1027 | 1021 |
| | | | | Temp. Rise | 52 | 51 | 50 | 50 | 51 |
| | | | | Watts | 162 | 218 | 272 | 325 | 377 |
| | | Medium Low | 1070 | CFM | 1051 | 1074 | 1080 | 1080 | 1074 |
| | | | | Temp. Rise | 49 | 48 | 48 | 48 | 48 |
| | | | | Watts | 189 | 247 | 303 | 357 | 412 |
| | | Medium** | 1130 | CFM | 1117 | 1130 | 1136 | 1134 | 1126 |
| | | | | Temp. Rise | 46 | 46 | 45 | 46 | 46 |
| | | | | Watts | 219 | 279 | 338 | 392 | 449 |
| | | High | 1290 | CFM | 1292 | 1280 | 1285 | 1278 | 1201 |
| | | | | Temp. Rise | 40 | 40 | 40 | 40 | 43 |
| | | | | Watts | 317 | 383 | 448 | 501 | 508 |

| | *UH3B080ACV3VA** Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure With Filter | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Airflow Setting | Target Airflow (See Note 5) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating | Heating 1st Stage | Low | 670 | CFM | 603 | 656 | 675 | 609 | 629 |
| | | | | Temp. Rise | 46 | 42 | 41 | 45 | 44 |
| | | | | Watts | 48 | 87 | 123 | 160 | 197 |
| | | Medium Low | 760 | CFM | 694 | 740 | 755 | 689 | 710 |
| | | | | Temp. Rise | 40 | 37 | 36 | 40 | 39 |
| | | | | Watts | 65 | 106 | 144 | 183 | 222 |
| | | Medium** | 840 | CFM | 817 | 837 | 845 | 838 | 825 |
| | | | | Temp. Rise | 34 | 33 | 33 | 33 | 33 |
| | | | | Watts | 87 | 128 | 171 | 210 | 250 |
| | | High | 970 | CFM | 920 | 950 | 958 | 890 | 912 |
| | | | | Temp. Rise | 30 | 29 | 29 | 31 | 30 |
| | | | | Watts | 119 | 167 | 212 | 256 | 302 |
| | Heating 2nd Stage | Low | 810 | CFM | 747 | 790 | 804 | 737 | 758 |
| | | | | Temp. Rise | 65 | 61 | 60 | 65 | 64 |
| | | | | Watts | 76 | 118 | 158 | 198 | 239 |
| | | Medium Low | 910 | CFM | 856 | 891 | 901 | 833 | 855 |
| | | | | Temp. Rise | 56 | 54 | 54 | 58 | 56 |
| | | | | Watts | 102 | 147 | 191 | 233 | 277 |
| | | Medium** | 1010 | CFM | 965 | 992 | 998 | 930 | 952 |
| | | | | Temp. Rise | 50 | 49 | 48 | 52 | 51 |
| | | | | Watts | 133 | 182 | 229 | 274 | 321 |
| | | High | 1160 | CFM | 1127 | 1142 | 1144 | 1074 | 1098 |
| | | | | Temp. Rise | 43 | 42 | 42 | 45 | 44 |
| | | | | Watts | 191 | 246 | 299 | 349 | 400 |
| | Heating 3rd Stage | Low | 1120 | CFM | 1099 | 1106 | 1111 | 1108 | 1103 |
| | | | | Temp. Rise | 63 | 62 | 62 | 62 | 62 |
| | | | | Watts | 174 | 229 | 278 | 330 | 382 |
| | | Medium Low | 1260 | CFM | 1232 | 1239 | 1243 | 1241 | 1235 |
| | | | | Temp. Rise | 56 | 56 | 55 | 56 | 56 |
| | | | | Watts | 234 | 292 | 349 | 407 | 463 |
| | | Medium** | 1400 | CFM | 1375 | 1385 | 1384 | 1383 | 1305 |
| | | | | Temp. Rise | 50 | 50 | 50 | 50 | 53 |
| | | | | Watts | 316 | 383 | 444 | 513 | 513 |
| | | High | 1610 | CFM | 1612 | 1566 | 1491 | 1392 | 1303 |
| | | | | Temp. Rise | 43 | 44 | 46 | 49 | 53 |
| | | | | Watts | 470 | 513 | 513 | 513 | 513 |

Notes:
1. * First letter may be "A" or "T".
2. ** Factory setting.
3. Continuous Fan Setting: Heating or cooling airflow is approximately 50% of selected cooling value.
4. LOW 350 cfm/ton is recommended for variable speed application for COMFORT & HUMID CLIMATE setting; NORMAL is 400 cfm/ton; HIGH 450 cfm/ton is for DRY CLIMATE setting.
5. Target airflow is field selectable for third stage heating. Target airflow for first and second stage heating are percentages of third stage target and are not field selectable.

# *UH3 AIRFLOW - HEATING

***UH3C100ACV4VA**** Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure With Filter

| | Airflow Setting | Target Airflow (See Note 5) | | External Static Pressure 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
|---|---|---|---|---|---|---|---|---|
| Heating | Heating 1st Stage | Low | 637 | CFM | 624 | 646 | 653 | 647 | 637 |
| | | | | Temp. Rise | 56 | 54 | 54 | 54 | 55 |
| | | | | Watts | 67 | 104 | 140 | 175 | 210 |
| | | Medium Low | 701 | CFM | 689 | 710 | 716 | 710 | 698 |
| | | | | Temp. Rise | 51 | 50 | 49 | 50 | 50 |
| | | | | Watts | 76 | 114 | 152 | 189 | 225 |
| | | Medium** | 794 | CFM | 785 | 803 | 807 | 801 | 789 |
| | | | | Temp. Rise | 45 | 44 | 44 | 44 | 45 |
| | | | | Watts | 91 | 131 | 172 | 211 | 249 |
| | | High | 877 | CFM | 870 | 886 | 889 | 882 | 869 |
| | | | | Temp. Rise | 40 | 39 | 39 | 39 | 40 |
| | | | | Watts | 107 | 149 | 192 | 234 | 274 |
| | Heating 2nd Stage | Low | 936 | CFM | 930 | 945 | 947 | 939 | 927 |
| | | | | Temp. Rise | 66 | 65 | 65 | 66 | 66 |
| | | | | Watts | 120 | 164 | 208 | 252 | 293 |
| | | Medium Low | 1030 | CFM | 1026 | 1039 | 1039 | 1031 | 1017 |
| | | | | Temp. Rise | 60 | 59 | 59 | 60 | 61 |
| | | | | Watts | 143 | 189 | 237 | 284 | 328 |
| | | Medium** | 1166 | CFM | 1166 | 1176 | 1173 | 1165 | 1150 |
| | | | | Temp. Rise | 53 | 52 | 52 | 53 | 54 |
| | | | | Watts | 185 | 235 | 287 | 340 | 388 |
| | | High | 1289 | CFM | 1291 | 1298 | 1293 | 1284 | 1269 |
| | | | | Temp. Rise | 48 | 47 | 48 | 48 | 49 |
| | | | | Watts | 231 | 286 | 342 | 399 | 452 |
| | Heating 3rd Stage | Low | 1300 | CFM | 1302 | 1309 | 1304 | 1295 | 1280 |
| | | | | Temp. Rise | 68 | 67 | 67 | 68 | 69 |
| | | | | Watts | 236 | 291 | 347 | 405 | 458 |
| | | Medium Low | 1430 | CFM | 1435 | 1439 | 1432 | 1422 | 1406 |
| | | | | Temp. Rise | 61 | 61 | 61 | 62 | 63 |
| | | | | Watts | 296 | 356 | 418 | 480 | 541 |
| | | Medium** | 1620 | CFM | 1629 | 1629 | 1618 | 1608 | 1590 |
| | | | | Temp. Rise | 54 | 54 | 54 | 55 | 55 |
| | | | | Watts | 406 | 475 | 544 | 615 | 689 |
| | | High | 1790 | CFM | 1803 | 1800 | 1785 | 1774 | 1755 |
| | | | | Temp. Rise | 49 | 49 | 49 | 50 | 50 |
| | | | | Watts | 528 | 608 | 685 | 763 | 853 |

***UH3D120ACV5VA**** Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure With Filter

| | Airflow Setting | Target Airflow (See Note 5) | | External Static Pressure 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
|---|---|---|---|---|---|---|---|---|
| Heating | Heating 1st Stage | Low | 860 | CFM | 837 | 865 | 872 | 869 | 862 |
| | | | | Temp. Rise | 57 | 55 | 54 | 55 | 55 |
| | | | | Watts | 87 | 129 | 163 | 196 | 241 |
| | | Medium Low | 960 | CFM | 937 | 962 | 968 | 963 | 953 |
| | | | | Temp. Rise | 51 | 49 | 49 | 49 | 50 |
| | | | | Watts | 107 | 152 | 190 | 228 | 275 |
| | | Medium** | 1050 | CFM | 1036 | 1059 | 1063 | 1056 | 1043 |
| | | | | Temp. Rise | 46 | 45 | 45 | 45 | 46 |
| | | | | Watts | 130 | 178 | 221 | 266 | 315 |
| | | High | 1210 | CFM | 1194 | 1214 | 1214 | 1204 | 1188 |
| | | | | Temp. Rise | 40 | 39 | 39 | 39 | 40 |
| | | | | Watts | 176 | 229 | 282 | 337 | 390 |
| | Heating 2nd Stage | Low | 1200 | CFM | 1184 | 1204 | 1204 | 1196 | 1179 |
| | | | | Temp. Rise | 58 | 57 | 57 | 57 | 58 |
| | | | | Watts | 172 | 225 | 278 | 332 | 385 |
| | | Medium Low | 1330 | CFM | 1323 | 1340 | 1339 | 1326 | 1306 |
| | | | | Temp. Rise | 52 | 51 | 51 | 52 | 53 |
| | | | | Watts | 222 | 280 | 341 | 405 | 459 |
| | | Medium** | 1470 | CFM | 1463 | 1477 | 1473 | 1458 | 1434 |
| | | | | Temp. Rise | 47 | 46 | 47 | 47 | 48 |
| | | | | Watts | 282 | 346 | 416 | 486 | 542 |
| | | High | 1690 | CFM | 1683 | 1692 | 1684 | 1665 | 1636 |
| | | | | Temp. Rise | 41 | 41 | 41 | 41 | 42 |
| | | | | Watts | 404 | 478 | 556 | 630 | 686 |
| | Heating 3rd Stage | Low | 1660 | CFM | 1658 | 1667 | 1660 | 1641 | 1612 |
| | | | | Temp. Rise | 64 | 63 | 64 | 64 | 65 |
| | | | | Watts | 388 | 461 | 538 | 613 | 669 |
| | | Medium Low | 1850 | CFM | 1852 | 1857 | 1845 | 1823 | 1790 |
| | | | | Temp. Rise | 57 | 57 | 57 | 58 | 59 |
| | | | | Watts | 522 | 604 | 682 | 749 | 804 |
| | | Medium** | 2040 | CFM | 2045 | 2046 | 2031 | 2006 | 1947 |
| | | | | Temp. Rise | 52 | 52 | 52 | 53 | 54 |
| | | | | Watts | 689 | 782 | 848 | 894 | 966 |
| | | High | 2340 | CFM | 2351 | 2345 | 2140 | 2050 | 1947 |
| | | | | Temp. Rise | 45 | 45 | 49 | 51 | 54 |
| | | | | Watts | 966 | 966 | 966 | 966 | 966 |

Notes:
1. * First letter may be "A" or "T".
2. ** Factory setting.
3. Continuous Fan Setting: Heating or cooling airflow is approximately 50% of selected cooling value.
4. LOW 350 cfm/ton is recommended for variable speed application for COMFORT & HUMID CLIMATE setting; NORMAL is 400 cfm/ton; HIGH 450 cfm/ton is for DRY CLIMATE setting.
5. Target airflow is field selectable for third stage heating. Target airflow for first and second stage heating are percentages of third stage target and are not field selectable.

## *UH3 AIRFLOW - COOLING

***UH3B060ACV3VA**** Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure With Filter

| | Unit Outdoor | Airflow Setting | | External Static Pressure | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 1.5 | 290 CFM/ton | CFM | 356 | 476 | 488 | 511 | 519 |
| | | | Watts | 29 | 67 | 97 | 132 | 167 |
| | | 310 CFM/ton | CFM | 389 | 504 | 516 | 538 | 545 |
| | | | Watts | 32 | 71 | 102 | 138 | 174 |
| | | 330 CFM/ton | CFM | 422 | 533 | 544 | 565 | 572 |
| | | | Watts | 36 | 75 | 107 | 144 | 181 |
| | | 350 CFM/ton | CFM | 455 | 561 | 566 | 589 | 592 |
| | | | Watts | 39 | 79 | 111 | 150 | 187 |
| | | 370 CFM/ton | CFM | 487 | 589 | 600 | 619 | 624 |
| | | | Watts | 43 | 84 | 119 | 158 | 197 |
| | | 400 CFM/ton | CFM | 537 | 631 | 655 | 669 | 673 |
| | | | Watts | 50 | 92 | 130 | 171 | 212 |
| | | 430 CFM/ton | CFM | 586 | 674 | 684 | 700 | 702 |
| | | | Watts | 57 | 101 | 139 | 182 | 223 |
| | | 450 CFM/ton | CFM | 619 | 695 | 717 | 727 | 733 |
| | | | Watts | 63 | 106 | 150 | 193 | 236 |
| | 2 | 290 CFM/ton | CFM | 515 | 613 | 623 | 641 | 646 |
| | | | Watts | 47 | 88 | 124 | 164 | 204 |
| | | 310 CFM/ton | CFM | 559 | 650 | 660 | 677 | 681 |
| | | | Watts | 53 | 96 | 133 | 175 | 215 |
| | | 330 CFM/ton | CFM | 602 | 688 | 698 | 713 | 716 |
| | | | Watts | 60 | 104 | 143 | 186 | 228 |
| | | 350 CFM/ton | CFM | 646 | 707 | 737 | 748 | 752 |
| | | | Watts | 68 | 112 | 156 | 200 | 243 |
| | | 370 CFM/ton | CFM | 690 | 763 | 772 | 785 | 785 |
| | | | Watts | 76 | 123 | 165 | 211 | 255 |
| | | 400 CFM/ton | CFM | 764 | 816 | 778 | 847 | 844 |
| | | | Watts | 86 | 137 | 180 | 231 | 275 |
| | | 430 CFM/ton | CFM | 821 | 876 | 884 | 892 | 890 |
| | | | Watts | 108 | 159 | 206 | 256 | 303 |
| | | 450 CFM/ton | CFM | 937 | 968 | 977 | 985 | 984 |
| | | | Watts | 136 | 193 | 241 | 295 | 343 |
| | 2.5 | 290 CFM/ton | CFM | 673 | 749 | 758 | 771 | 772 |
| | | | Watts | 73 | 119 | 161 | 206 | 250 |
| | | 310 CFM/ton | CFM | 732 | 791 | 756 | 766 | 818 |
| | | | Watts | 79 | 129 | 160 | 203 | 268 |
| | | 330 CFM/ton | CFM | 783 | 843 | 852 | 861 | 860 |
| | | | Watts | 98 | 147 | 193 | 242 | 288 |
| | | 350 CFM/ton | CFM | 848 | 894 | 908 | 917 | 917 |
| | | | Watts | 110 | 163 | 212 | 262 | 308 |
| | | 370 CFM/ton | CFM | 892 | 937 | 945 | 951 | 947 |
| | | | Watts | 129 | 182 | 232 | 284 | 333 |
| | | 400 CFM/ton | CFM | 972 | 1015 | 972 | 957 | 1036 |
| | | | Watts | 160 | 213 | 262 | 312 | 374 |
| | | 430 CFM/ton | CFM | 1057 | 1078 | 1085 | 1085 | 1078 |
| | | | Watts | 191 | 249 | 306 | 360 | 415 |
| | | 450 CFM/ton | CFM | 1115 | 1137 | 1142 | 1140 | 1139 |
| | | | Watts | 214 | 275 | 333 | 388 | 447 |
| | 3 | 290 CFM/ton | CFM | 832 | 885 | 894 | 901 | 899 |
| | | | Watts | 111 | 162 | 210 | 260 | 308 |
| | | 310 CFM/ton | CFM | 898 | 942 | 950 | 955 | 951 |
| | | | Watts | 131 | 184 | 234 | 286 | 336 |
| | | 330 CFM/ton | CFM | 964 | 998 | 1006 | 1009 | 1004 |
| | | | Watts | 154 | 209 | 262 | 314 | 366 |
| | | 350 CFM/ton | CFM | 1039 | 1065 | 1073 | 1074 | 1075 |
| | | | Watts | 181 | 237 | 292 | 344 | 402 |
| | | 370 CFM/ton | CFM | 1095 | 1111 | 1118 | 1116 | 1108 |
| | | | Watts | 208 | 268 | 326 | 380 | 436 |
| | | 400 CFM/ton | CFM | 1189 | 1212 | 1214 | 1149 | 1207 |
| | | | Watts | 257 | 320 | 380 | 435 | 500 |
| | | 430 CFM/ton | CFM | 1292 | 1280 | 1285 | 1278 | 1201 |
| | | | Watts | 317 | 383 | 448 | 501 | 508 |
| | | 450 CFM/ton | CFM | 1326 | 1317 | 1361 | 1242 | 1166 |
| | | | Watts | 366 | 433 | 495 | 510 | 509 |

Notes:
1. * First letter may be "A" or "T".
2. ** Factory setting.
3. Continuous Fan Setting: Heating or cooling airflow is approximately 50% of selected cooling value.
4. LOW 350 cfm/ton is recommended for variable speed application for COMFORT & HUMID CLIMATE setting; NORMAL is 400 cfm/ton; HIGH 450 cfm/ton is for DRY CLIMATE setting.

**NOTE:**
**CONTINUOUS fan mode during COOLING operation may not be appropriate in humid climates. If the indoor air exceeds 60% relative humidity or simply feels uncomfortably humid, it is recommended that the fan only be used in the AUTO mode.**



Pub. No. 22-1806-04

# *UH3 AIRFLOW - COOLING

***UH3B080ACV3VA**** Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure With Filter

| | Unit Outdoor | Airflow Setting | | External Static Pressure 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
|---|---|---|---|---|---|---|---|---|
| Cooling | 2 | 290 CFM/ton | CFM | 504 | 565 | 586 | 521 | 540 |
| | | | Watts | 34 | 70 | 104 | 138 | 172 |
| | | 310 CFM/ton | CFM | 547 | 604 | 624 | 559 | 579 |
| | | | Watts | 40 | 77 | 112 | 147 | 182 |
| | | 330 CFM/ton | CFM | 590 | 644 | 663 | 597 | 617 |
| | | | Watts | 47 | 85 | 121 | 157 | 193 |
| | | 350 CFM/ton | CFM | 656 | 695 | 701 | 703 | 694 |
| | | | Watts | 54 | 93 | 130 | 167 | 204 |
| | | 370 CFM/ton | CFM | 676 | 724 | 740 | 674 | 694 |
| | | | Watts | 62 | 102 | 140 | 179 | 217 |
| | | 400 CFM/ton | CFM | 764 | 792 | 801 | 795 | 789 |
| | | | Watts | 75 | 116 | 157 | 197 | 238 |
| | | 430 CFM/ton | CFM | 806 | 844 | 856 | 788 | 810 |
| | | | Watts | 89 | 133 | 175 | 216 | 259 |
| | | 450 CFM/ton | CFM | 877 | 899 | 901 | 895 | 886 |
| | | | Watts | 102 | 145 | 188 | 230 | 275 |
| | 2.5 | 290 CFM/ton | CFM | 660 | 709 | 726 | 659 | 680 |
| | | | Watts | 59 | 99 | 136 | 174 | 212 |
| | | 310 CFM/ton | CFM | 740 | 768 | 772 | 769 | 764 |
| | | | Watts | 70 | 109 | 149 | 189 | 229 |
| | | 330 CFM/ton | CFM | 768 | 809 | 822 | 755 | 776 |
| | | | Watts | 81 | 123 | 164 | 205 | 246 |
| | | 350 CFM/ton | CFM | 848 | 869 | 871 | 868 | 858 |
| | | | Watts | 94 | 138 | 179 | 220 | 265 |
| | | 370 CFM/ton | CFM | 875 | 909 | 918 | 850 | 872 |
| | | | Watts | 107 | 153 | 197 | 240 | 284 |
| | | 400 CFM/ton | CFM | 978 | 994 | 992 | 989 | 980 |
| | | | Watts | 130 | 179 | 224 | 270 | 316 |
| | | 430 CFM/ton | CFM | 1037 | 1058 | 1063 | 994 | 1017 |
| | | | Watts | 157 | 209 | 258 | 305 | 354 |
| | | 450 CFM/ton | CFM | 1093 | 1096 | 1082 | 1065 | 1051 |
| | | | Watts | 174 | 227 | 276 | 324 | 378 |
| | 3 | 290 CFM/ton | CFM | 816 | 854 | 865 | 798 | 819 |
| | | | Watts | 92 | 136 | 178 | 220 | 262 |
| | | 310 CFM/ton | CFM | 881 | 914 | 923 | 855 | 877 |
| | | | Watts | 108 | 155 | 199 | 242 | 286 |
| | | 330 CFM/ton | CFM | 945 | 974 | 981 | 912 | 935 |
| | | | Watts | 127 | 176 | 222 | 266 | 313 |
| | | 350 CFM/ton | CFM | 1029 | 1043 | 1043 | 1035 | 1028 |
| | | | Watts | 148 | 199 | 246 | 292 | 340 |
| | | 370 CFM/ton | CFM | 1074 | 1093 | 1097 | 1027 | 1050 |
| | | | Watts | 170 | 224 | 274 | 322 | 372 |
| | | 400 CFM/ton | CFM | 1170 | 1181 | 1184 | 1180 | 1174 |
| | | | Watts | 206 | 262 | 317 | 370 | 423 |
| | | 430 CFM/ton | CFM | 1268 | 1276 | 1270 | 1199 | 1224 |
| | | | Watts | 254 | 314 | 372 | 430 | 484 |
| | | 450 CFM/ton | CFM | 1321 | 1321 | 1306 | 1295 | 1251 |
| | | | Watts | 287 | 351 | 415 | 477 | 518 |
| | 3.5 | 290 CFM/ton | CFM | 972 | 998 | 1005 | 936 | 959 |
| | | | Watts | 135 | 185 | 232 | 277 | 324 |
| | | 310 CFM/ton | CFM | 1047 | 1068 | 1073 | 1003 | 1026 |
| | | | Watts | 161 | 213 | 262 | 310 | 359 |
| | | 330 CFM/ton | CFM | 1123 | 1138 | 1140 | 1070 | 1094 |
| | | | Watts | 189 | 244 | 296 | 347 | 398 |
| | | 350 CFM/ton | CFM | 1195 | 1204 | 1208 | 1205 | 1195 |
| | | | Watts | 215 | 275 | 329 | 383 | 437 |
| | | 370 CFM/ton | CFM | 1273 | 1278 | 1275 | 1204 | 1228 |
| | | | Watts | 257 | 317 | 376 | 433 | 488 |
| | | 400 CFM/ton | CFM | 1375 | 1385 | 1384 | 1383 | 1305 |
| | | | Watts | 316 | 383 | 444 | 513 | 513 |
| | | 430 CFM/ton | CFM | 1499 | 1487 | 1491 | 1392 | 1303 |
| | | | Watts | 389 | 457 | 513 | 513 | 513 |
| | | 450 CFM/ton | CFM | 1513 | 1512 | 1508 | 1418 | 1341 |
| | | | Watts | 398 | 470 | 529 | 524 | 522 |

Notes:
1. * First letter may be "A" or "T".
2. ** Factory setting.
3. Continuous Fan Setting: Heating or cooling airflow is approximately 50% of selected cooling value.
4. LOW 350 cfm/ton is recommended for variable speed application for COMFORT & HUMID CLIMATE setting; NORMAL is 400 cfm/ton; HIGH 450 cfm/ton is for DRY CLIMATE setting.

**NOTE:**
**CONTINUOUS fan mode during COOLING operation may not be appropriate in humid climates. If the indoor air exceeds 60% relative humidity or simply feels uncomfortably humid, it is recommended that the fan only be used in the AUTO mode.**

# *UH3 AIRFLOW - COOLING

***UH3C100ACV4VA**** Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure With Filter

| | Unit Outdoor | Airflow Setting | | External Static Pressure | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 2.5 | 290 CFM/ton | CFM | 714 | 734 | 739 | 733 | 722 |
| | | | Watts | 79 | 118 | 157 | 194 | 231 |
| | | 310 CFM/ton | CFM | 765 | 784 | 789 | 782 | 770 |
| | | | Watts | 88 | 128 | 168 | 206 | 244 |
| | | 330 CFM/ton | CFM | 816 | 834 | 838 | 831 | 819 |
| | | | Watts | 96 | 138 | 179 | 220 | 258 |
| | | 350 CFM/ton | CFM | 868 | 884 | 887 | 880 | 867 |
| | | | Watts | 103 | 149 | 192 | 234 | 273 |
| | | 370 CFM/ton | CFM | 919 | 934 | 936 | 929 | 916 |
| | | | Watts | 117 | 161 | 205 | 249 | 290 |
| | | 400 CFM/ton | CFM | 995 | 1009 | 1009 | 1002 | 989 |
| | | | Watts | 135 | 181 | 227 | 274 | 316 |
| | | 430 CFM/ton | CFM | 1072 | 1084 | 1083 | 1075 | 1061 |
| | | | Watts | 156 | 204 | 253 | 302 | 346 |
| | | 450 CFM/ton | CFM | 1123 | 1134 | 1132 | 1124 | 1110 |
| | | | Watts | 171 | 220 | 271 | 322 | 368 |
| | 3 | 290 CFM/ton | CFM | 862 | 879 | 882 | 875 | 863 |
| | | | Watts | 105 | 148 | 190 | 232 | 272 |
| | | 310 CFM/ton | CFM | 924 | 939 | 941 | 934 | 921 |
| | | | Watts | 118 | 162 | 207 | 250 | 291 |
| | | 330 CFM/ton | CFM | 985 | 999 | 1000 | 992 | 979 |
| | | | Watts | 133 | 178 | 224 | 270 | 313 |
| | | 350 CFM/ton | CFM | 1046 | 1059 | 1059 | 1051 | 1037 |
| | | | Watts | 149 | 196 | 244 | 292 | 336 |
| | | 370 CFM/ton | CFM | 1108 | 1119 | 1117 | 1109 | 1095 |
| | | | Watts | 167 | 215 | 265 | 316 | 362 |
| | | 400 CFM/ton | CFM | 1200 | 1209 | 1206 | 1197 | 1183 |
| | | | Watts | 197 | 248 | 301 | 355 | 404 |
| | | 430 CFM/ton | CFM | 1292 | 1299 | 1294 | 1285 | 1270 |
| | | | Watts | 232 | 286 | 343 | 400 | 453 |
| | | 450 CFM/ton | CFM | 1353 | 1359 | 1353 | 1344 | 1328 |
| | | | Watts | 258 | 314 | 373 | 432 | 488 |
| | 3.5 | 290 CFM/ton | CFM | 1011 | 1024 | 1024 | 1017 | 1003 |
| | | | Watts | 139 | 185 | 232 | 279 | 322 |
| | | 310 CFM/ton | CFM | 1082 | 1094 | 1093 | 1085 | 1071 |
| | | | Watts | 159 | 207 | 256 | 306 | 351 |
| | | 330 CFM/ton | CFM | 1154 | 1164 | 1162 | 1153 | 1139 |
| | | | Watts | 181 | 231 | 283 | 335 | 382 |
| | | 350 CFM/ton | CFM | 1225 | 1234 | 1230 | 1222 | 1207 |
| | | | Watts | 206 | 258 | 312 | 367 | 417 |
| | | 370 CFM/ton | CFM | 1297 | 1304 | 1299 | 1290 | 1275 |
| | | | Watts | 234 | 288 | 345 | 402 | 455 |
| | | 400 CFM/ton | CFM | 1404 | 1409 | 1402 | 1393 | 1377 |
| | | | Watts | 281 | 340 | 400 | 462 | 520 |
| | | 430 CFM/ton | CFM | 1512 | 1514 | 1505 | 1495 | 1478 |
| | | | Watts | 336 | 399 | 464 | 530 | 595 |
| | | 450 CFM/ton | CFM | 1583 | 1584 | 1574 | 1564 | 1546 |
| | | | Watts | 377 | 444 | 512 | 580 | 650 |
| | 4 | 290 CFM/ton | CFM | 1159 | 1169 | 1167 | 1158 | 1144 |
| | | | Watts | 183 | 233 | 285 | 337 | 385 |
| | | 310 CFM/ton | CFM | 1241 | 1249 | 1245 | 1236 | 1221 |
| | | | Watts | 212 | 264 | 319 | 374 | 425 |
| | | 330 CFM/ton | CFM | 1323 | 1329 | 1324 | 1315 | 1299 |
| | | | Watts | 244 | 300 | 358 | 416 | 470 |
| | | 350 CFM/ton | CFM | 1404 | 1409 | 1402 | 1393 | 1377 |
| | | | Watts | 281 | 340 | 400 | 462 | 520 |
| | | 370 CFM/ton | CFM | 1486 | 1489 | 1481 | 1471 | 1454 |
| | | | Watts | 322 | 384 | 448 | 513 | 576 |
| | | 400 CFM/ton | CFM | 1609 | 1609 | 1599 | 1588 | 1571 |
| | | | Watts | 393 | 461 | 530 | 599 | 671 |
| | | 430 CFM/ton | CFM | 1732 | 1730 | 1716 | 1705 | 1687 |
| | | | Watts | 475 | 550 | 624 | 698 | 781 |
| | | 450 CFM/ton | CFM | 1813 | 1810 | 1795 | 1783 | 1765 |
| | | | Watts | 536 | 617 | 694 | 772 | 864 |

Notes:
1. * First letter may be "A" or "T".
2. ** Factory setting.
3. Continuous Fan Setting: Heating or cooling airflow is approximately 50% of selected cooling value.
4. LOW 350 cfm/ton is recommended for variable speed application for COMFORT & HUMID CLIMATE setting; NORMAL is 400 cfm/ton; HIGH 450 cfm/ton is for DRY CLIMATE setting.

**NOTE:**
**CONTINUOUS fan mode during COOLING operation may not be appropriate in humid climates. If the indoor air exceeds 60% relative humidity or simply feels uncomfortably humid, it is recommended that the fan only be used in the AUTO mode.**



Pub. No. 22-1806-04

# *UH3 AIRFLOW - COOLING

**Cooling**

***UH3D120ACV5VA**** Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure With Filter

| Unit Outdoor | Airflow Setting | | External Static Pressure | | | | |
|---|---|---|---|---|---|---|---|
| | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| 3.5 | 290 CFM/ton | CFM | 1000 | 1024 | 1028 | 1022 | 1011 |
| | | Watts | 122 | 168 | 209 | 251 | 300 |
| | 310 CFM/ton | CFM | 1072 | 1094 | 1097 | 1089 | 1076 |
| | | Watts | 140 | 188 | 234 | 281 | 331 |
| | 330 CFM/ton | CFM | 1143 | 1164 | 1165 | 1157 | 1141 |
| | | Watts | 160 | 211 | 261 | 313 | 364 |
| | 350 CFM/ton | CFM | 1214 | 1233 | 1234 | 1224 | 1207 |
| | | Watts | 182 | 236 | 291 | 347 | 400 |
| | 370 CFM/ton | CFM | 1286 | 1303 | 1302 | 1291 | 1272 |
| | | Watts | 207 | 264 | 323 | 384 | 438 |
| | 400 CFM/ton | CFM | 1393 | 1408 | 1405 | 1392 | 1370 |
| | | Watts | 250 | 311 | 377 | 444 | 500 |
| | 430 CFM/ton | CFM | 1500 | 1513 | 1508 | 1492 | 1468 |
| | | Watts | 300 | 365 | 437 | 509 | 565 |
| | 450 CFM/ton | CFM | 1571 | 1582 | 1576 | 1559 | 1533 |
| | | Watts | 337 | 406 | 481 | 555 | 611 |
| 4 | 290 CFM/ton | CFM | 1148 | 1169 | 1170 | 1161 | 1146 |
| | | Watts | 161 | 213 | 263 | 315 | 367 |
| | 310 CFM/ton | CFM | 1230 | 1248 | 1248 | 1238 | 1221 |
| | | Watts | 187 | 242 | 297 | 355 | 408 |
| | 330 CFM/ton | CFM | 1311 | 1328 | 1327 | 1315 | 1295 |
| | | Watts | 217 | 274 | 335 | 398 | 452 |
| | 350 CFM/ton | CFM | 1393 | 1408 | 1405 | 1392 | 1370 |
| | | Watts | 250 | 311 | 377 | 444 | 500 |
| | 370 CFM/ton | CFM | 1474 | 1488 | 1483 | 1468 | 1445 |
| | | Watts | 287 | 352 | 422 | 493 | 549 |
| | 400 CFM/ton | CFM | 1597 | 1607 | 1601 | 1583 | 1556 |
| | | Watts | 352 | 421 | 497 | 572 | 628 |
| | 430 CFM/ton | CFM | 1719 | 1727 | 1718 | 1699 | 1668 |
| | | Watts | 427 | 503 | 581 | 655 | 711 |
| | 450 CFM/ton | CFM | 1801 | 1807 | 1797 | 1775 | 1743 |
| | | Watts | 483 | 563 | 642 | 712 | 768 |
| 5 | 290 CFM/ton | CFM | 1444 | 1458 | 1454 | 1440 | 1417 |
| | | Watts | 273 | 336 | 405 | 475 | 530 |
| | 310 CFM/ton | CFM | 1546 | 1557 | 1552 | 1535 | 1510 |
| | | Watts | 324 | 391 | 465 | 538 | 594 |
| | 330 CFM/ton | CFM | 1648 | 1657 | 1650 | 1631 | 1603 |
| | | Watts | 381 | 454 | 531 | 606 | 662 |
| | 350 CFM/ton | CFM | 1750 | 1757 | 1748 | 1727 | 1696 |
| | | Watts | 447 | 525 | 603 | 676 | 732 |
| | 370 CFM/ton | CFM | 1852 | 1857 | 1845 | 1823 | 1790 |
| | | Watts | 522 | 604 | 682 | 749 | 804 |
| | 400 CFM/ton | CFM | 2004 | 2006 | 1992 | 1967 | 1947 |
| | | Watts | 651 | 742 | 811 | 863 | 966 |
| | 430 CFM/ton | CFM | 2157 | 2156 | 2140 | 2050 | 1947 |
| | | Watts | 803 | 902 | 966 | 966 | 966 |
| | 450 CFM/ton | CFM | 2259 | 2255 | 2140 | 2050 | 1947 |
| | | Watts | 966 | 966 | 966 | 966 | 966 |

Notes:
1. * First letter may be "A" or "T".
2. ** Factory setting.
3. Continuous Fan Setting: Heating or cooling airflow is approximately 50% of selected cooling value.
4. LOW 350 cfm/ton is recommended for variable speed application for COMFORT & HUMID CLIMATE setting; NORMAL is 400 cfm/ton; HIGH 450 cfm/ton is for DRY CLIMATE setting.

**NOTE:**
**CONTINUOUS fan mode during COOLING operation may not be appropriate in humid climates. If the indoor air exceeds 60% relative humidity or simply feels uncomfortably humid, it is recommended that the fan only be used in the AUTO mode.**

# *DH3 AIRFLOW - HEATING

| | *DH3B060ACV3VA** Furnace Heating Airflow (CFM) and Power (watts) vs. External Static Pressure With Filter | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Airflow Setting | Target Airflow (See Note 5) | | External Static Pressure | | | | |
| | | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating | Heating 1st Stage | Low | 540 | CFM | 428 | 488 | 514 | 523 | 524 |
| | | | | Temp. Rise | 48 | 42 | 40 | 39 | 39 |
| | | | | Watts | 41 | 65 | 98 | 129 | 159 |
| | | Medium Low | 610 | CFM | 493 | 544 | 571 | 581 | 582 |
| | | | | Temp. Rise | 41 | 38 | 36 | 35 | 35 |
| | | | | Watts | 41 | 74 | 108 | 142 | 174 |
| | | Medium** | 680 | CFM | 565 | 610 | 634 | 642 | 641 |
| | | | | Temp. Rise | 36 | 34 | 32 | 32 | 32 |
| | | | | Watts | 52 | 87 | 123 | 158 | 192 |
| | | High | 770 | CFM | 659 | 694 | 704 | 705 | 703 |
| | | | | Temp. Rise | 31 | 29 | 29 | 29 | 29 |
| | | | | Watts | 69 | 109 | 144 | 181 | 221 |
| | Heating 2nd Stage | Low | 680 | CFM | 563 | 611 | 625 | 629 | 626 |
| | | | | Temp. Rise | 54 | 50 | 49 | 49 | 49 |
| | | | | Watts | 52 | 88 | 123 | 159 | 195 |
| | | Medium Low | 760 | CFM | 645 | 684 | 703 | 709 | 707 |
| | | | | Temp. Rise | 48 | 45 | 44 | 43 | 43 |
| | | | | Watts | 67 | 105 | 142 | 178 | 214 |
| | | Medium** | 860 | CFM | 744 | 775 | 790 | 794 | 789 |
| | | | | Temp. Rise | 41 | 40 | 39 | 39 | 39 |
| | | | | Watts | 90 | 131 | 170 | 208 | 246 |
| | | High | 970 | CFM | 854 | 876 | 885 | 887 | 879 |
| | | | | Temp. Rise | 36 | 35 | 35 | 35 | 35 |
| | | | | Watts | 122 | 166 | 208 | 249 | 289 |
| | Heating 3rd Stage | Low | 900 | CFM | 783 | 807 | 814 | 813 | 809 |
| | | | | Temp. Rise | 65 | 63 | 63 | 63 | 63 |
| | | | | Watts | 102 | 143 | 182 | 220 | 260 |
| | | Medium Low | 1010 | CFM | 896 | 914 | 922 | 923 | 914 |
| | | | | Temp. Rise | 57 | 56 | 55 | 55 | 56 |
| | | | | Watts | 136 | 182 | 224 | 266 | 308 |
| | | Medium** | 1130 | CFM | 1015 | 1024 | 1026 | 1024 | 1012 |
| | | | | Temp. Rise | 50 | 50 | 50 | 50 | 50 |
| | | | | Watts | 184 | 233 | 279 | 325 | 369 |
| | | High | 1290 | CFM | 1172 | 1171 | 1174 | 1173 | 1172 |
| | | | | Temp. Rise | 44 | 44 | 44 | 44 | 44 |
| | | | | Watts | 263 | 317 | 371 | 422 | 473 |

| | *DH3B080ACV3VA** Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure With Filter | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Airflow Setting | Target Airflow (See Note 5) | | External Static Pressure | | | | |
| | | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating | Heating 1st Stage | Low | 670 | CFM | 635 | 656 | 668 | 673 | 670 |
| | | | | Temp. Rise | 43 | 42 | 41 | 41 | 41 |
| | | | | Watts | 61 | 95 | 131 | 166 | 202 |
| | | Medium Low | 760 | CFM | 726 | 744 | 755 | 757 | 753 |
| | | | | Temp. Rise | 38 | 37 | 36 | 36 | 36 |
| | | | | Watts | 80 | 118 | 156 | 193 | 231 |
| | | Medium** | 840 | CFM | 817 | 833 | 842 | 842 | 835 |
| | | | | Temp. Rise | 33 | 33 | 32 | 32 | 33 |
| | | | | Watts | 104 | 145 | 184 | 223 | 263 |
| | | High | 970 | CFM | 954 | 966 | 973 | 969 | 959 |
| | | | | Temp. Rise | 29 | 28 | 28 | 28 | 28 |
| | | | | Watts | 148 | 194 | 237 | 278 | 321 |
| | Heating 2nd Stage | Low | 800 | CFM | 780 | 797 | 807 | 807 | 802 |
| | | | | Temp. Rise | 61 | 60 | 59 | 59 | 60 |
| | | | | Watts | 93 | 133 | 172 | 210 | 250 |
| | | Medium Low | 910 | CFM | 890 | 904 | 911 | 909 | 901 |
| | | | | Temp. Rise | 54 | 53 | 52 | 52 | 53 |
| | | | | Watts | 126 | 170 | 211 | 251 | 293 |
| | | Medium** | 1010 | CFM | 999 | 1011 | 1016 | 1011 | 1000 |
| | | | | Temp. Rise | 48 | 47 | 47 | 47 | 48 |
| | | | | Watts | 165 | 213 | 257 | 300 | 343 |
| | | High | 1160 | CFM | 1163 | 1170 | 1173 | 1163 | 1148 |
| | | | | Temp. Rise | 41 | 41 | 41 | 41 | 42 |
| | | | | Watts | 239 | 291 | 340 | 388 | 434 |
| | Heating 3rd Stage | Low | 1120 | CFM | 1120 | 1129 | 1132 | 1124 | 1109 |
| | | | | Temp. Rise | 61 | 60 | 60 | 61 | 61 |
| | | | | Watts | 218 | 269 | 316 | 363 | 408 |
| | | Medium Low | 1260 | CFM | 1272 | 1277 | 1277 | 1265 | 1242 |
| | | | | Temp. Rise | 54 | 53 | 53 | 54 | 55 |
| | | | | Watts | 299 | 353 | 406 | 459 | 502 |
| | | Medium** | 1400 | CFM | 1411 | 1409 | 1386 | 1321 | 1250 |
| | | | | Temp. Rise | 48 | 48 | 49 | 52 | 55 |
| | | | | Watts | 396 | 454 | 503 | 502 | 501 |
| | | High | 1610 | CFM | 1558 | 1491 | 1408 | 1320 | 1242 |
| | | | | Temp. Rise | 44 | 46 | 48 | 52 | 55 |
| | | | | Watts | 502 | 502 | 502 | 502 | 502 |

Notes:
1. * First letter may be "A" or "T".
2. ** Factory setting.
3. Continuous Fan Setting: Heating or cooling airflow is approximately 50% of selected cooling value.
4. LOW 350 cfm/ton is recommended for variable speed application for COMFORT & HUMID CLIMATE setting; NORMAL is 400 cfm/ton; HIGH 450 cfm/ton is for DRY CLIMATE setting.
5. Target airflow is field selectable for third stage heating. Target airflow for first and second stage heating are percentages of third stage target and are not field selectable.

# *DH3 AIRFLOW - HEATING

| | ***DH3C100ACV4VA**** Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure With Filter | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Airflow Setting | Target Airflow (See Note 5) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating | Heating 1st Stage | Low | 640 | CFM | 635 | 627 | 614 | 599 | 581 |
| | | | | Temp. Rise | 54 | 54 | 56 | 57 | 59 |
| | | | | Watts | 37 | 85 | 130 | 174 | 196 |
| | | Medium Low | 700 | CFM | 699 | 690 | 675 | 659 | 639 |
| | | | | Temp. Rise | 49 | 49 | 50 | 52 | 53 |
| | | | | Watts | 52 | 102 | 150 | 196 | 223 |
| | | Medium** | 795 | CFM | 792 | 781 | 765 | 746 | 724 |
| | | | | Temp. Rise | 43 | 44 | 45 | 46 | 47 |
| | | | | Watts | 77 | 131 | 181 | 229 | 265 |
| | | High | 880 | CFM | 875 | 863 | 845 | 825 | 800 |
| | | | | Temp. Rise | 39 | 39 | 40 | 41 | 43 |
| | | | | Watts | 103 | 159 | 211 | 261 | 303 |
| | Heating 2nd Stage | Low | 940 | CFM | 934 | 921 | 902 | 880 | 854 |
| | | | | Temp. Rise | 64 | 65 | 66 | 68 | 70 |
| | | | | Watts | 124 | 181 | 233 | 284 | 330 |
| | | Medium Low | 1030 | CFM | 1027 | 1013 | 992 | 968 | 939 |
| | | | | Temp. Rise | 58 | 59 | 60 | 62 | 63 |
| | | | | Watts | 160 | 218 | 271 | 322 | 374 |
| | | Medium** | 1170 | CFM | 1164 | 1148 | 1124 | 1097 | 1064 |
| | | | | Temp. Rise | 51 | 52 | 53 | 54 | 56 |
| | | | | Watts | 221 | 279 | 331 | 380 | 439 |
| | | High | 1230 | CFM | 1286 | 1268 | 1242 | 1212 | 1176 |
| | | | | Temp. Rise | 46 | 47 | 48 | 49 | 51 |
| | | | | Watts | 283 | 341 | 389 | 436 | 497 |
| | Heating 3rd Stage | Low | 1300 | CFM | 1297 | 1279 | 1253 | 1222 | 1186 |
| | | | | Temp. Rise | 66 | 67 | 68 | 70 | 72 |
| | | | | Watts | 289 | 346 | 395 | 441 | 502 |
| | | Medium Low | 1430 | CFM | 1427 | 1407 | 1378 | 1345 | 1305 |
| | | | | Temp. Rise | 60 | 61 | 62 | 63 | 65 |
| | | | | Watts | 364 | 418 | 462 | 504 | 562 |
| | | Medium** | 1620 | CFM | 1616 | 1594 | 1561 | 1523 | 1478 |
| | | | | Temp. Rise | 53 | 53 | 55 | 56 | 58 |
| | | | | Watts | 488 | 536 | 570 | 601 | 644 |
| | | High | 1790 | CFM | 1786 | 1762 | 1725 | 1683 | 1633 |
| | | | | Temp. Rise | 48 | 48 | 49 | 51 | 52 |
| | | | | Watts | 614 | 653 | 675 | 726 | 726 |

| | ***DH3D120ACV5VA**** Furnace Heating Airflow (CFM) and Power (Watts) vs. External Static Pressure With Filter | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Airflow Setting | Target Airflow (See Note 5) | | External Static Pressure | | | | |
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Heating | Heating 1st Stage | Low | 1000 | CFM | 950 | 986 | 1010 | 1017 | 950 |
| | | | | Temp. Rise | 43 | 41 | 40 | 40 | 43 |
| | | | | Watts | 118 | 172 | 225 | 278 | 331 |
| | | Medium Low | 1110 | CFM | 1073 | 1102 | 1120 | 1122 | 1073 |
| | | | | Temp. Rise | 38 | 37 | 37 | 36 | 38 |
| | | | | Watts | 152 | 213 | 274 | 333 | 390 |
| | | Medium** | 1220 | CFM | 1197 | 1218 | 1230 | 1227 | 1197 |
| | | | | Temp. Rise | 34 | 34 | 33 | 36 | 34 |
| | | | | Watts | 194 | 260 | 329 | 333 | 453 |
| | | High | 1400 | CFM | 1392 | 1401 | 1404 | 1393 | 1392 |
| | | | | Temp. Rise | 29 | 29 | 29 | 29 | 29 |
| | | | | Watts | 278 | 352 | 428 | 498 | 560 |
| | Heating 2nd Stage | Low | 1200 | CFM | 1166 | 1189 | 1202 | 1200 | 1166 |
| | | | | Temp. Rise | 61 | 60 | 60 | 60 | 61 |
| | | | | Watts | 183 | 248 | 314 | 378 | 437 |
| | | Medium Low | 1330 | CFM | 1314 | 1328 | 1334 | 1326 | 1314 |
| | | | | Temp. Rise | 54 | 54 | 54 | 54 | 54 |
| | | | | Watts | 242 | 313 | 387 | 455 | 517 |
| | | Medium** | 1470 | CFM | 1462 | 1467 | 1466 | 1452 | 1462 |
| | | | | Temp. Rise | 49 | 49 | 49 | 49 | 49 |
| | | | | Watts | 315 | 389 | 468 | 539 | 739 |
| | | High | 1690 | CFM | 1697 | 1687 | 1674 | 1651 | 1697 |
| | | | | Temp. Rise | 42 | 42 | 43 | 43 | 42 |
| | | | | Watts | 461 | 537 | 615 | 683 | 739 |
| | Heating 3rd Stage | Low | 1660 | CFM | 1670 | 1662 | 1650 | 1628 | 1670 |
| | | | | Temp. Rise | 61 | 61 | 62 | 63 | 61 |
| | | | | Watts | 442 | 518 | 597 | 666 | 722 |
| | | Medium Low | 1850 | CFM | 1876 | 1856 | 1833 | 1803 | 1876 |
| | | | | Temp. Rise | 54 | 55 | 56 | 57 | 54 |
| | | | | Watts | 602 | 674 | 744 | 803 | 847 |
| | | Medium** | 2040 | CFM | 2082 | 2049 | 2017 | 2027 | 1946 |
| | | | | Temp. Rise | 49 | 50 | 51 | 50 | 53 |
| | | | | Watts | 800 | 859 | 910 | 1034 | 1031 |
| | | High | 2340 | CFM | 2254 | 2180 | 2100 | 2027 | 1946 |
| | | | | Temp. Rise | 45 | 47 | 49 | 50 | 53 |
| | | | | Watts | 1007 | 1036 | 1034 | 1034 | 1031 |

Notes:
1. * First letter may be "A" or "T".
2. ** Factory setting.
3. Continuous Fan Setting: Heating or cooling airflow is approximately 50% of selected cooling value.
4. LOW 350 cfm/ton is recommended for variable speed application for COMFORT & HUMID CLIMATE setting; NORMAL is 400 cfm/ton; HIGH 450 cfm/ton is for DRY CLIMATE setting.
5. Target airflow is field selectable for third stage heating. Target airflow for first and second stage heating are percentages of third stage target and are not field selectable.

## *DH3 AIRFLOW - COOLING

***DH3B060ACV3VA**** Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure With Filter

| | Unit Outdoor | Airflow Setting | | External Static Pressure | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 1.5 | 290 CFM/ton | CFM | 272 | 388 | 423 | 436 | 442 |
| | | | Watts | 24 | 52 | 82 | 111 | 141 |
| | | 310 CFM/ton | CFM | 353 | 415 | 449 | 461 | 466 |
| | | | Watts | 26 | 55 | 86 | 116 | 146 |
| | | 330 CFM/ton | CFM | 383 | 443 | 475 | 487 | 491 |
| | | | Watts | 29 | 59 | 90 | 121 | 152 |
| | | 350 CFM/ton | CFM | 413 | 472 | 503 | 512 | 513 |
| | | | Watts | 32 | 62 | 96 | 126 | 157 |
| | | 370 CFM/ton | CFM | 443 | 498 | 527 | 538 | 540 |
| | | | Watts | 35 | 67 | 99 | 132 | 163 |
| | | 400 CFM/ton | CFM | 487 | 535 | 557 | 564 | 562 |
| | | | Watts | 40 | 73 | 107 | 141 | 173 |
| | | 430 CFM/ton | CFM | 532 | 580 | 605 | 614 | 614 |
| | | | Watts | 47 | 81 | 116 | 150 | 183 |
| | | 450 CFM/ton | CFM | 563 | 611 | 625 | 629 | 626 |
| | | | Watts | 52 | 88 | 123 | 159 | 195 |
| | 2 | 290 CFM/ton | CFM | 468 | 520 | 549 | 559 | 561 |
| | | | Watts | 38 | 70 | 104 | 136 | 169 |
| | | 310 CFM/ton | CFM | 507 | 557 | 583 | 593 | 593 |
| | | | Watts | 43 | 77 | 111 | 145 | 177 |
| | | 330 CFM/ton | CFM | 547 | 594 | 618 | 627 | 626 |
| | | | Watts | 49 | 84 | 119 | 153 | 187 |
| | | 350 CFM/ton | CFM | 585 | 633 | 647 | 648 | 647 |
| | | | Watts | 56 | 93 | 129 | 165 | 203 |
| | | 370 CFM/ton | CFM | 627 | 667 | 688 | 694 | 692 |
| | | | Watts | 63 | 100 | 137 | 173 | 208 |
| | | 400 CFM/ton | CFM | 686 | 716 | 725 | 727 | 725 |
| | | | Watts | 76 | 115 | 151 | 189 | 228 |
| | | 430 CFM/ton | CFM | 746 | 777 | 792 | 796 | 790 |
| | | | Watts | 90 | 131 | 170 | 209 | 247 |
| | | 450 CFM/ton | CFM | 783 | 807 | 814 | 813 | 809 |
| | | | Watts | 102 | 143 | 182 | 220 | 260 |
| | 2.5 | 290 CFM/ton | CFM | 612 | 653 | 675 | 682 | 680 |
| | | | Watts | 60 | 97 | 133 | 169 | 204 |
| | | 310 CFM/ton | CFM | 662 | 699 | 718 | 724 | 721 |
| | | | Watts | 70 | 109 | 146 | 183 | 219 |
| | | 330 CFM/ton | CFM | 711 | 745 | 761 | 766 | 762 |
| | | | Watts | 82 | 121 | 160 | 198 | 235 |
| | | 350 CFM/ton | CFM | 763 | 785 | 790 | 793 | 786 |
| | | | Watts | 95 | 136 | 174 | 212 | 252 |
| | | 370 CFM/ton | CFM | 811 | 837 | 848 | 851 | 844 |
| | | | Watts | 109 | 151 | 192 | 232 | 271 |
| | | 400 CFM/ton | CFM | 894 | 907 | 914 | 914 | 905 |
| | | | Watts | 134 | 178 | 221 | 262 | 303 |
| | | 430 CFM/ton | CFM | 960 | 974 | 978 | 978 | 967 |
| | | | Watts | 161 | 208 | 252 | 297 | 339 |
| | | 450 CFM/ton | CFM | 1012 | 1021 | 1025 | 1028 | 1023 |
| | | | Watts | 182 | 231 | 279 | 324 | 369 |
| | 3 | 290 CFM/ton | CFM | 756 | 786 | 800 | 804 | 799 |
| | | | Watts | 93 | 134 | 173 | 212 | 250 |
| | | 310 CFM/ton | CFM | 816 | 841 | 852 | 855 | 848 |
| | | | Watts | 110 | 153 | 194 | 234 | 273 |
| | | 330 CFM/ton | CFM | 876 | 896 | 904 | 906 | 897 |
| | | | Watts | 130 | 174 | 216 | 258 | 299 |
| | | 350 CFM/ton | CFM | 941 | 953 | 961 | 959 | 954 |
| | | | Watts | 151 | 198 | 242 | 285 | 328 |
| | | 370 CFM/ton | CFM | 995 | 1006 | 1009 | 1007 | 996 |
| | | | Watts | 175 | 223 | 269 | 314 | 358 |
| | | 400 CFM/ton | CFM | 1085 | 1087 | 1091 | 1092 | 1090 |
| | | | Watts | 216 | 265 | 316 | 365 | 412 |
| | | 430 CFM/ton | CFM | 1172 | 1171 | 1174 | 1173 | 1172 |
| | | | Watts | 263 | 317 | 371 | 422 | 473 |
| | | 450 CFM/ton | CFM | 1227 | 1227 | 1231 | 1234 | 1207 |
| | | | Watts | 299 | 356 | 412 | 467 | 502 |

Notes:
1. * First letter may be "A" or "T".
2. ** Factory setting.
3. Continuous Fan Setting: Heating or cooling airflow is approximately 50% of selected cooling value.
4. LOW 350 cfm/ton is recommended for variable speed application for COMFORT & HUMID CLIMATE setting; NORMAL is 400 cfm/ton; HIGH 450 cfm/ton is for DRY CLIMATE setting.

**NOTE:**
**CONTINUOUS fan mode during COOLING operation may not be appropriate in humid climates. If the indoor air exceeds 60% relative humidity or simply feels uncomfortably humid, it is recommended that the fan only be used in the AUTO mode.**

# *DH3 AIRFLOW - COOLING

**Cooling**

***DH3B080ACV3VA**** Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure With Filter

| Unit Outdoor | Airflow Setting | | External Static Pressure | | | | |
|---|---|---|---|---|---|---|---|
| | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| 2 | 290 CFM/ton | CFM | 535 | 558 | 572 | 580 | 580 |
| | | Watts | 44 | 74 | 108 | 142 | 175 |
| | 310 CFM/ton | CFM | 579 | 601 | 614 | 620 | 619 |
| | | Watts | 51 | 82 | 118 | 152 | 187 |
| | 330 CFM/ton | CFM | 622 | 643 | 655 | 660 | 659 |
| | | Watts | 58 | 92 | 128 | 163 | 199 |
| | 350 CFM/ton | CFM | 665 | 697 | 705 | 697 | 694 |
| | | Watts | 67 | 104 | 141 | 175 | 214 |
| | 370 CFM/ton | CFM | 709 | 728 | 738 | 741 | 737 |
| | | Watts | 76 | 113 | 151 | 187 | 225 |
| | 400 CFM/ton | CFM | 779 | 802 | 809 | 797 | 793 |
| | | Watts | 90 | 131 | 169 | 207 | 250 |
| | 430 CFM/ton | CFM | 839 | 854 | 863 | 862 | 855 |
| | | Watts | 110 | 152 | 192 | 231 | 272 |
| | 450 CFM/ton | CFM | 903 | 917 | 916 | 906 | 891 |
| | | Watts | 125 | 168 | 208 | 248 | 287 |
| 2.5 | 290 CFM/ton | CFM | 692 | 712 | 723 | 726 | 722 |
| | | Watts | 72 | 109 | 146 | 182 | 220 |
| | 310 CFM/ton | CFM | 747 | 765 | 774 | 776 | 771 |
| | | Watts | 85 | 123 | 162 | 199 | 238 |
| | 330 CFM/ton | CFM | 801 | 817 | 826 | 827 | 820 |
| | | Watts | 99 | 140 | 179 | 217 | 257 |
| | 350 CFM/ton | CFM | 855 | 870 | 878 | 877 | 869 |
| | | Watts | 115 | 157 | 198 | 237 | 278 |
| | 370 CFM/ton | CFM | 909 | 923 | 930 | 927 | 918 |
| | | Watts | 132 | 177 | 218 | 259 | 301 |
| | 400 CFM/ton | CFM | 1005 | 1014 | 1014 | 1003 | 993 |
| | | Watts | 164 | 211 | 252 | 295 | 337 |
| | 430 CFM/ton | CFM | 1072 | 1082 | 1086 | 1078 | 1065 |
| | | Watts | 196 | 246 | 291 | 336 | 381 |
| | 450 CFM/ton | CFM | 1126 | 1134 | 1137 | 1129 | 1114 |
| | | Watts | 221 | 272 | 319 | 366 | 411 |
| 3 | 290 CFM/ton | CFM | 849 | 865 | 873 | 872 | 864 |
| | | Watts | 113 | 156 | 196 | 235 | 276 |
| | 310 CFM/ton | CFM | 915 | 928 | 935 | 932 | 923 |
| | | Watts | 134 | 179 | 221 | 261 | 303 |
| | 330 CFM/ton | CFM | 980 | 992 | 997 | 993 | 982 |
| | | Watts | 158 | 205 | 248 | 290 | 333 |
| | 350 CFM/ton | CFM | 1045 | 1055 | 1060 | 1053 | 1041 |
| | | Watts | 184 | 233 | 278 | 322 | 366 |
| | 370 CFM/ton | CFM | 1110 | 1119 | 1122 | 1114 | 1100 |
| | | Watts | 213 | 264 | 311 | 357 | 402 |
| | 400 CFM/ton | CFM | 1211 | 1208 | 1209 | 1202 | 1195 |
| | | Watts | 260 | 312 | 366 | 418 | 465 |
| | 430 CFM/ton | CFM | 1305 | 1309 | 1309 | 1295 | 1242 |
| | | Watts | 319 | 373 | 428 | 482 | 502 |
| | 450 CFM/ton | CFM | 1370 | 1372 | 1371 | 1320 | 1242 |
| | | Watts | 360 | 415 | 473 | 502 | 502 |

Notes:

1. * First letter may be "A" or "T".
2. ** Factory setting.
3. Continuous Fan Setting: Heating or cooling airflow is approximately 50% of selected cooling value.
4. LOW 350 cfm/ton is recommended for variable speed application for COMFORT & HUMID CLIMATE setting; NORMAL is 400 cfm/ton; HIGH 450 cfm/ton is for DRY CLIMATE setting.

**NOTE:**
**CONTINUOUS fan mode during COOLING operation may not be appropriate in humid climates. If the indoor air exceeds 60% relative humidity or simply feels uncomfortably humid, it is recommended that the fan only be used in the AUTO mode.**

## *DH3 AIRFLOW - COOLING

***DH3C100ACV4VA**** Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure With Filter

| | Unit Outdoor | Airflow Setting | | External Static Pressure | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| Cooling | 2.5 | 290 CFM/ton | CFM | 723 | 713 | 699 | 682 | 661 |
| | | | Watts | 58 | 109 | 157 | 204 | 234 |
| | | 310 CFM/ton | CFM | 773 | 763 | 747 | 729 | 707 |
| | | | Watts | 72 | 125 | 174 | 222 | 256 |
| | | 330 CFM/ton | CFM | 823 | 812 | 795 | 776 | 753 |
| | | | Watts | 87 | 141 | 182 | 241 | 279 |
| | | 350 CFM/ton | CFM | 873 | 861 | 842 | 823 | 798 |
| | | | Watts | 103 | 158 | 210 | 260 | 302 |
| | | 370 CFM/ton | CFM | 923 | 910 | 892 | 870 | 844 |
| | | | Watts | 120 | 177 | 229 | 279 | 325 |
| | | 400 CFM/ton | CFM | 998 | 984 | 964 | 940 | 912 |
| | | | Watts | 148 | 206 | 258 | 309 | 360 |
| | | 430 CFM/ton | CFM | 1072 | 1058 | 1036 | 1011 | 981 |
| | | | Watts | 179 | 238 | 290 | 341 | 396 |
| | | 450 CFM/ton | CFM | 1122 | 1107 | 1084 | 1058 | 1026 |
| | | | Watts | 201 | 260 | 312 | 362 | 420 |
| | 3 | 290 CFM/ton | CFM | 868 | 856 | 839 | 818 | 794 |
| | | | Watts | 101 | 157 | 208 | 258 | 299 |
| | | 310 CFM/ton | CFM | 928 | 915 | 896 | 874 | 849 |
| | | | Watts | 122 | 179 | 231 | 281 | 327 |
| | | 330 CFM/ton | CFM | 988 | 974 | 954 | 931 | 903 |
| | | | Watts | 144 | 202 | 254 | 305 | 356 |
| | | 350 CFM/ton | CFM | 1047 | 1033 | 1012 | 987 | 958 |
| | | | Watts | 169 | 227 | 279 | 330 | 384 |
| | | 370 CFM/ton | CFM | 1107 | 1092 | 1070 | 1044 | 1013 |
| | | | Watts | 195 | 253 | 305 | 356 | 413 |
| | | 400 CFM/ton | CFM | 1197 | 1181 | 1157 | 1128 | 1095 |
| | | | Watts | 237 | 296 | 346 | 395 | 455 |
| | | 430 CFM/ton | CFM | 1287 | 1269 | 1243 | 1213 | 1177 |
| | | | Watts | 284 | 341 | 390 | 436 | 498 |
| | | 450 CFM/ton | CFM | 1347 | 1329 | 1301 | 1269 | 1232 |
| | | | Watts | 317 | 373 | 420 | 465 | 526 |
| | 3.5 | 290 CFM/ton | CFM | 1013 | 999 | 978 | 954 | 926 |
| | | | Watts | 154 | 212 | 265 | 315 | 367 |
| | | 310 CFM/ton | CFM | 1082 | 1068 | 1048 | 1020 | 990 |
| | | | Watts | 184 | 242 | 294 | 345 | 401 |
| | | 330 CFM/ton | CFM | 1152 | 1137 | 1113 | 1086 | 1054 |
| | | | Watts | 215 | 274 | 325 | 375 | 434 |
| | | 350 CFM/ton | CFM | 1222 | 1206 | 1181 | 1152 | 1118 |
| | | | Watts | 250 | 308 | 358 | 406 | 467 |
| | | 370 CFM/ton | CFM | 1292 | 1274 | 1248 | 1218 | 1182 |
| | | | Watts | 286 | 344 | 392 | 439 | 500 |
| | | 400 CFM/ton | CFM | 1397 | 1378 | 1349 | 1316 | 1277 |
| | | | Watts | 346 | 401 | 446 | 489 | 548 |
| | | 430 CFM/ton | CFM | 1501 | 1481 | 1451 | 1415 | 1373 |
| | | | Watts | 411 | 463 | 503 | 541 | 595 |
| | | 450 CFM/ton | CFM | 1571 | 1550 | 1518 | 1481 | 1437 |
| | | | Watts | 457 | 507 | 543 | 577 | 625 |
| | 4 | 290 CFM/ton | CFM | 1157 | 1142 | 1118 | 1091 | 1058 |
| | | | Watts | 218 | 276 | 328 | 377 | 436 |
| | | 310 CFM/ton | CFM | 1237 | 1220 | 1195 | 1166 | 1131 |
| | | | Watts | 257 | 315 | 365 | 413 | 474 |
| | | 330 CFM/ton | CFM | 1317 | 1299 | 1272 | 1241 | 1204 |
| | | | Watts | 300 | 357 | 405 | 450 | 512 |
| | | 350 CFM/ton | CFM | 1397 | 1378 | 1349 | 1316 | 1277 |
| | | | Watts | 346 | 401 | 446 | 489 | 548 |
| | | 370 CFM/ton | CFM | 1476 | 1456 | 1426 | 1392 | 1350 |
| | | | Watts | 395 | 448 | 489 | 529 | 584 |
| | | 400 CFM/ton | CFM | 1596 | 1575 | 1542 | 1504 | 1460 |
| | | | Watts | 474 | 523 | 558 | 591 | 636 |
| | | 430 CFM/ton | CFM | 1716 | 1693 | 1658 | 1617 | 1569 |
| | | | Watts | 560 | 604 | 631 | 726 | 726 |
| | | 450 CFM/ton | CFM | 1796 | 1771 | 1735 | 1693 | 1642 |
| | | | Watts | 622 | 661 | 682 | 726 | 726 |

Notes:
1. * First letter may be "A" or "T".
2. ** Factory setting.
3. Continuous Fan Setting: Heating or cooling airflow is approximately 50% of selected cooling value.
4. LOW 350 cfm/ton is recommended for variable speed application for COMFORT & HUMID CLIMATE setting; NORMAL is 400 cfm/ton; HIGH 450 cfm/ton is for DRY CLIMATE setting.

**NOTE:**
**CONTINUOUS fan mode during COOLING operation may not be appropriate in humid climates. If the indoor air exceeds 60% relative humidity or simply feels uncomfortably humid, it is recommended that the fan only be used in the AUTO mode.**

## *DH3 AIRFLOW - COOLING

**Cooling**

***DH3D120ACV5VA**** Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure With Filter

| Unit Outdoor | Airflow Setting | | External Static Pressure | | | | |
|---|---|---|---|---|---|---|---|
| | | | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| 3.5 | 290 CFM/ton | CFM | 970 | 1005 | 1029 | 1035 | 970 |
| | | Watts | 124 | 178 | 233 | 287 | 341 |
| | 310 CFM/ton | CFM | 1046 | 1076 | 1096 | 1099 | 1046 |
| | | Watts | 144 | 203 | 263 | 320 | 377 |
| | 330 CFM/ton | CFM | 1122 | 1148 | 1163 | 1163 | 1122 |
| | | Watts | 168 | 231 | 295 | 356 | 415 |
| | 350 CFM/ton | CFM | 1198 | 1219 | 1231 | 1228 | 1198 |
| | | Watts | 195 | 261 | 329 | 394 | 454 |
| | 370 CFM/ton | CFM | 1274 | 1290 | 1298 | 1292 | 1274 |
| | | Watts | 225 | 294 | 366 | 433 | 495 |
| | 400 CFM/ton | CFM | 1388 | 1397 | 1400 | 1389 | 1388 |
| | | Watts | 276 | 349 | 426 | 496 | 558 |
| | 430 CFM/ton | CFM | 1502 | 1504 | 1501 | 1486 | 1502 |
| | | Watts | 336 | 412 | 491 | 562 | 623 |
| | 450 CFM/ton | CFM | 1578 | 1576 | 1568 | 1550 | 1578 |
| | | Watts | 381 | 458 | 537 | 608 | 668 |
| 4 | 290 CFM/ton | CFM | 1127 | 1153 | 1168 | 1168 | 1127 |
| | | Watts | 170 | 233 | 297 | 359 | 417 |
| | 310 CFM/ton | CFM | 1214 | 1234 | 1245 | 1242 | 1214 |
| | | Watts | 201 | 268 | 337 | 402 | 463 |
| | 330 CFM/ton | CFM | 1301 | 1316 | 1323 | 1315 | 1301 |
| | | Watts | 126 | 306 | 380 | 448 | 509 |
| | 350 CFM/ton | CFM | 1388 | 1397 | 1400 | 1389 | 1388 |
| | | Watts | 276 | 349 | 426 | 496 | 558 |
| | 370 CFM/ton | CFM | 1475 | 1479 | 1477 | 1463 | 1475 |
| | | Watts | 321 | 396 | 475 | 546 | 607 |
| | 400 CFM/ton | CFM | 1605 | 1601 | 1592 | 1573 | 1605 |
| | | Watts | 399 | 475 | 555 | 625 | 684 |
| | 430 CFM/ton | CFM | 1735 | 1723 | 1708 | 1683 | 1735 |
| | | Watts | 489 | 564 | 624 | 708 | 762 |
| | 450 CFM/ton | CFM | 1822 | 1805 | 1785 | 1757 | 1822 |
| | | Watts | 557 | 630 | 704 | 766 | 814 |
| 5 | 290 CFM/ton | CFM | 1442 | 1448 | 1448 | 1435 | 1442 |
| | | Watts | 304 | 378 | 456 | 527 | 589 |
| | 310 CFM/ton | CFM | 1550 | 1550 | 1544 | 1527 | 1550 |
| | | Watts | 365 | 441 | 521 | 591 | 652 |
| | 330 CFM/ton | CFM | 1659 | 1652 | 1641 | 1619 | 1659 |
| | | Watts | 435 | 511 | 590 | 659 | 716 |
| | 350 CFM/ton | CFM | 1767 | 1754 | 1737 | 1711 | 1767 |
| | | Watts | 513 | 588 | 665 | 730 | 781 |
| | 370 CFM/ton | CFM | 1876 | 1856 | 1833 | 1803 | 1876 |
| | | Watts | 602 | 674 | 744 | 803 | 847 |
| | 400 CFM/ton | CFM | 2038 | 2009 | 1978 | 1941 | 1946 |
| | | Watts | 755 | 817 | 873 | 918 | 1031 |
| | 430 CFM/ton | CFM | 2201 | 2161 | 2100 | 2027 | 1946 |
| | | Watts | 933 | 981 | 1034 | 1034 | 1031 |
| | 450 CFM/ton | CFM | 2310 | 2180 | 2100 | 2027 | 1946 |
| | | Watts | 1067 | 1036 | 1034 | 1034 | 1031 |

Notes:
1. * First letter may be "A" or "T".
2. ** Factory setting.
3. Continuous Fan Setting: Heating or cooling airflow is approximately 50% of selected cooling value.
4. LOW 350 cfm/ton is recommended for variable speed application for COMFORT & HUMID CLIMATE setting; NORMAL is 400 cfm/ton; HIGH 450 cfm/ton is for DRY CLIMATE setting.

**NOTE:**
**CONTINUOUS fan mode during COOLING operation may not be appropriate in humid climates. If the indoor air exceeds 60% relative humidity or simply feels uncomfortably humid, it is recommended that the fan only be used in the AUTO mode.**

# Maximum Vent Length Table

| VENT LENGTH TABLE WITH BAYHALT KIT (HIGH ALTITUDE KIT) | | | |
|---|---|---|---|
| ALTITUDE | MAXIMUM TOTAL EQUIVALENT LENGTH IN FEET FOR VENT AND INLET AIR (SEE NOTES) | | |
| 5,000 - 12,000 Feet | 2 INCH PIPE | 2.5 INCH PIPE | 3 INCH PIPE |
| **Natural Gas - All models**<br>**Liquid Propane Gas - All models except *UH3, *DH3** | | | |
| *UY060R, *UH2B060A9V3V<br>*UX060R, *UX2B060A9362<br>*UX2B060AFV3V<br>*DY060R, *DH2B060A9V3V<br>*DX060R, *DX2B060A9362<br>*UY080R, *UH2B080A9V3V<br>*UH3B060ACV3V<br>*DH3B060ACV3V | 200 | 200 | 200 |
| *UX080R, *UX2B080A9422<br>*UX2B080AFV3V<br>*DY080R, *DH2B080A9V3V<br>*DX080R, *DX2B080A9422<br>*UH3B080ACV3V<br>*DH3B080ACV3V | 50 | 120 | 200 |
| *UY100R, *UH2C100A9V4V<br>*UX100R, *UX2C100A9482<br>*UX2C100AFV4V<br>*DY100R, *DH2C100A9V4V<br>*DX100R, *DX2C100A9482<br>*UH3C100ACV4V<br>*DH3C100ACV4V | Not Allowed | 60 | 200 |
| *UY120R, *UH2D120A9V5V<br>*UX120R, *UX2D120A9602<br>*UX2D120AFV5V<br>*DY120R, *DH2D120A9V5V<br>*DX120R, *DX2D120A9602<br>*UH3D120ACV5V<br>*DH3D120ACV5V | Not Allowed | Not Allowed | 200 |
| **Liquid Propane Gas - *UH3, *DH3 models ONLY** | | | |
| *UH/DH3B060ACV3V<br>*UH/DH3B080ACV3V<br>*UH/DH3C100ACV4V | Not Allowed | Not Allowed | 150 |
| *UH/DH3D120ACV5V | Not Allowed | Not Allowed | 100 |

NOTES: *First letter may be "A", "C" or "T"

1. Minimum vent length for all models: 3' horizontal and vertical.
2. DO NOT MIX PIPE DIAMETERS IN THE SAME LENGTH OF PIPE OUTSIDE THE FURNACE CABINET, (Except adapters at the top of the furnace).
3. MAXIMUM PIPE LENGTHS MUST NOT BE EXCEEDED! THE LENGTH SHOWN IS NOT A COMBINED TOTAL, IT IS THE MAXIMUM LENGTH OF EACH (Vent or inlet air pipes).
4. One SHORT radius 90° elbow is equivalent to 10' of 3" pipe and one LONG radius elbow is equivalent to 6' of 3" pipe. One 90° elbow is equivalent to 7-1/2' of 2-1/2" pipe or 5' of 2' pipe. Two 45° elbows equal one 90° elbow.
5. The termination tee or bend must be included in the total number of elbows. If the BAYAIR30AVENT termination kit is used, the equivalent length is 0 feet.
6. Pipe adapters are field supplied (except 100,120,UX1C06A960 & all downflow models).



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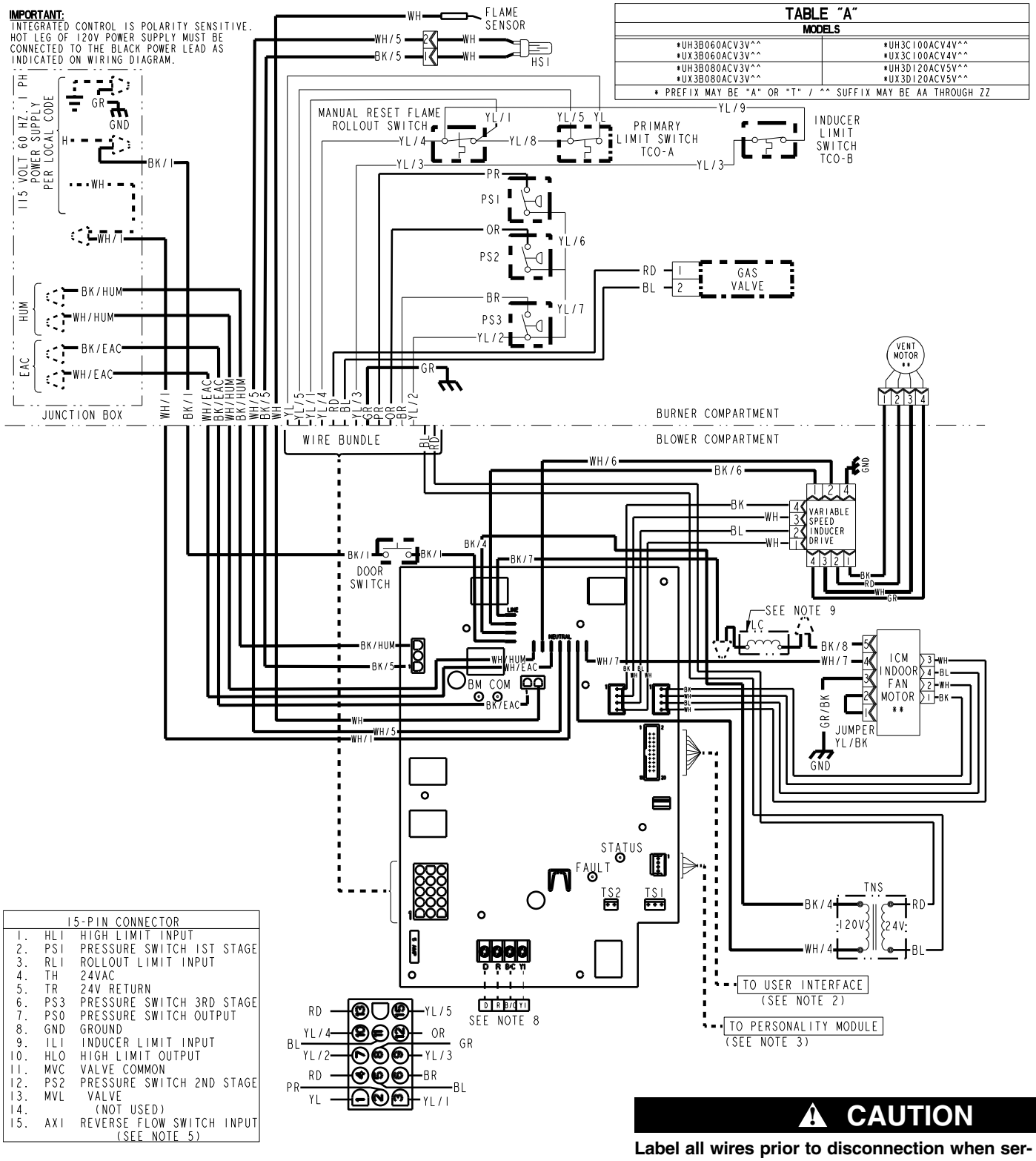
# Electrical Data

## *UH3 Wiring Diagram




| TABLE "A" MODELS | |
|---|---|
| *UH3B060ACV3V^^<br>*UX3B060ACV3V^^ | *UH3C100ACV4V^^<br>*UX3C100ACV4V^^ |
| *UH3B080ACV3V^^<br>*UX3B080ACV3V^^ | *UH3D120ACV5V^^<br>*UX3D120ACV5V^^ |
| * PREFIX MAY BE "A" OR "T" / ^^ SUFFIX MAY BE AA THROUGH ZZ | |

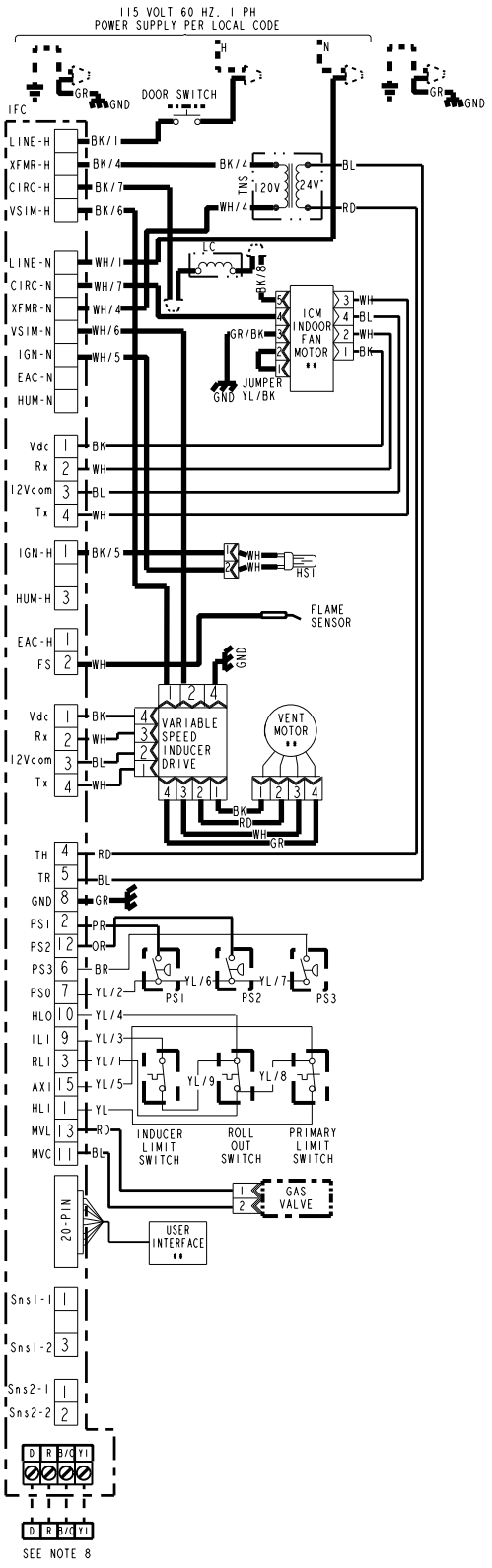
| 15-PIN CONNECTOR | | |
|---|---|---|
| 1. | HLI | HIGH LIMIT INPUT |
| 2. | PSI | PRESSURE SWITCH 1ST STAGE |
| 3. | RLI | ROLLOUT LIMIT INPUT |
| 4. | TH | 24VAC |
| 5. | TR | 24V RETURN |
| 6. | PS3 | PRESSURE SWITCH 3RD STAGE |
| 7. | PSO | PRESSURE SWITCH OUTPUT |
| 8. | GND | GROUND |
| 9. | ILI | INDUCER LIMIT INPUT |
| 10. | HLO | HIGH LIMIT OUTPUT |
| 11. | MVC | VALVE COMMON |
| 12. | PS2 | PRESSURE SWITCH 2ND STAGE |
| 13. | MVL | VALVE |
| 14. | | (NOT USED) |
| 15. | AXI | REVERSE FLOW SWITCH INPUT (SEE NOTE 5) |

**⚠ CAUTION**

**Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.**

# Electrical Data

## *UH3 Schematic Diagram




| DIAGNOSTIC CODES (SEE NOTE 10) | |
|---|---|
| RED LED - FAULT Data - 1 Flash every 20 seconds | |
| 2 FLASHES - SYSTEM LOCKOUT RETRIES OR RECYCLES EXCEEDED | 6 FLASHES - 115 VOLT AC POWER REVERSED OR IGNITER FAULT |
| 3 FLASHES - PRESSURE SWITCH FAULT | 7 FLASHES - GAS VALVE CIRCUIT ERROR |
| | 8 FLASHES - LOW FLAME SENSE SIGNAL |
| 4 FLASHES - OPEN LIMIT SWITCH | 9 FLASHES - OPEN INDUCER LIMIT |
| 5 FLASHES - FLAME SENSED WHEN NO FLAME SHOULD BE PRESENT | 10 FLASHES - COMMUNICATION FAULT |
| | CONTINUOUS ON - INTERNAL CONTROL FAILURE |
| GREEN LED - STATUS | |
| SLOW FLASH - NORMAL, NO CALL FOR HEAT | |
| FAST FLASH - NORMAL, CALL FOR HEAT PRESENT | |
| GREEN AND RED LED'S ON CONTINUOUS - INTERNAL CONTROL FAILURE | |
| GREEN AND RED LED'S OFF CONTINUOUS - FUSE OPEN | |

| WARNING ⚠ | CAUTION ⚠ |
|---|---|
| HAZARDOUS VOLTAGE<br><br>DISCONNECT ALL ELECTRICAL POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.<br><br>FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH. | USE COPPER CONDUCTORS ONLY!<br><br>UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.<br><br>FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT. |

### INTEGRATED FURNACE CONTROL

REPLACE WITH PART CNT 04829 OR EQUIVALENT
ELECTRICAL RATING
INPUT: 25 V.A.C., 60 HZ.
XFMR SEC. CURRENT: 450 MA. + MV LOAD
MV OUTPUT: 1.5 A @ 24 V.A.C.
IND OUTPUT: 3 PHASE OUTPUT
IGN OUTPUT: 2.0 A @ 120V.A.C.
CIRC. BLOWER OUTPUT: 14.5 FLA,
25 LRA @ 120 VAC
HUMIDIFER & AIR CLEANER
MAX. LOAD: 1.0 A @ 120 VAC

TIMINGS
PREPURGE: 0 SEC.; INTERPURGE: 60 SEC.
POST PURGE: 5 SECONDS
IGNITOR WARMUP: 20 SECONDS
IAP: 3; TFI: 5 SECONDS
RETRIES: 2; RECYCLES: 10
HEAT ON DELAY: 45 SECONDS
COOL ON DELAY: 0 SECONDS
AUTO RESTART: 60 MINUTES
AUTO RESTART PURGE: 15 SECONDS

TCO THERMAL CUT OUT
PS PRESSURE SWITCH
FRS FLAME ROLLOUT SWITCH
FP FLAME SENSOR
CHASSIS GROUND
HSI HOT SURFACE IGNITER
DOOR SWITCH
FUSE
LC LINE CHOKE

LINE, 24 V } FACTORY WIRING
LINE, 24 V } FIELD WIRING

| | | | |
|---|---|---|---|
| BK | BLACK | GR | GREEN |
| WH | WHITE | BR | BROWN |
| YL | YELLOW | RD | RED |
| OR | ORANGE | BL | BLUE |

** INTERNAL THERMAL PROTECTION

WIRE COLOR
BK/1
NUMBER ID (IF ANY)

CF CAPACITOR
COIL

| | | | |
|---|---|---|---|
| L | LINE | TH | 24 VAC (HOT) |
| N | NEUTRAL | TR | 24 VAC (COMMON) |
| GND | GROUND | MV | MAIN GAS VALVE |
| B/C | COMMON | TNS | TRANSFORMER |
| HLO | HIGH LIMIT OUTPUT | ILI | INDUCER LIMIT INPUT |
| HLI | HIGH LIMIT INPUT | | |

**NOTES:**

1. IF ANY OF THE ORIGINAL WIRING AS SUPPLIED WITH THIS FURNACE MUST BE REPLACED, IT ,MUST BE WITH WIRE HAVING A TEMPERATURE RATING OF AT LEAST 105 C.
2. USER INTERFACE MUST BE INSTALLED FOR PROPER FURNACE INSTALLATION & SET-UP.
3. CORRECT PERSONALITY MODULE IS REQUIRED FOR PROPER FURNACE OPERATION. PERSONALITY MODULE IS SPECIFIC TO EACH MODEL & SERIAL NUMBER, AND IS TO REMAIN WITHIN IT'S ORIGINAL UNIT.
4. THESE LEADS PROVIDE 120V POWER CONNECTIONS FOR ELECTRONIC AIR CLEANER (EAC) AND HUMIDIFIER (HUM). MAX. LOAD: 1.0 AMPS EACH.
5. REVERSE FLOW SWITCH NOT PRESENT ON MODELS LISTED IN TABLE "A". CONTROL INPUT IS JUMPERED USING YL/5.
6. USED FOR *UH3C100ACV4V*, *UX3C100ACV4V* AND *UH3D120ACV5V*, *UX3D120ACV5V* MODELS ONLY.
7. ON POWER-UP, LAST FOUR FAULTS, IF ANY, WILL BE FLASHED ON RED LED. GREEN LED WILL BE SOLID ON DURING LAST FAULT RECOVERY.
8. Y1 IS OUTPUT TO NON-COMMUNICATING OUTDOOR UNIT.

## ⚠ CAUTION

**Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.**



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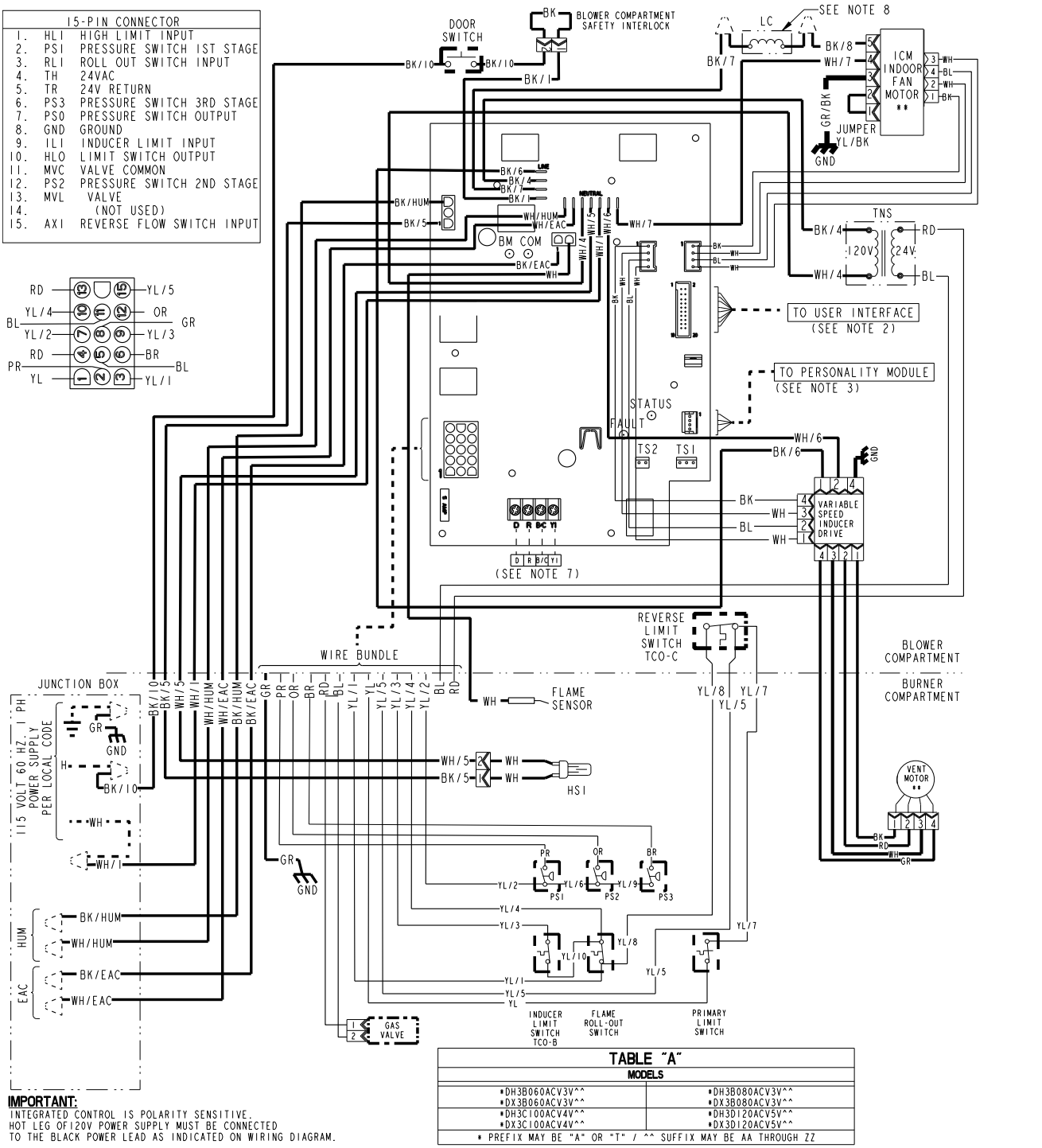
# Electrical Data

## *DH3 Wiring Diagram



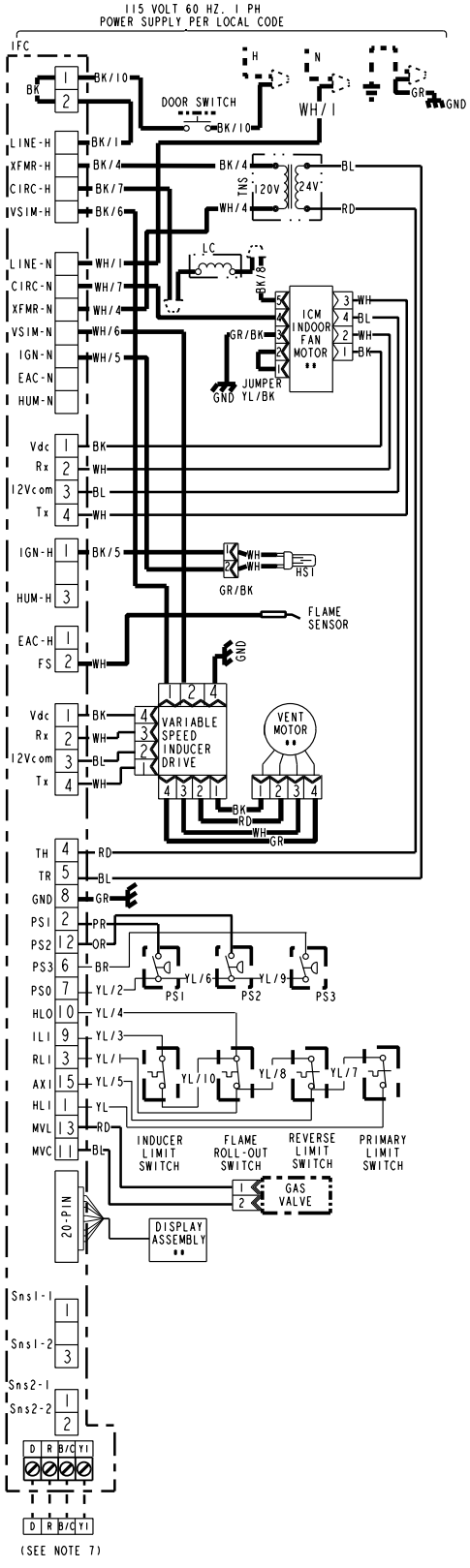

| TABLE "A" | |
|---|---|
| MODELS | |
| *DH3B060ACV3V^^ | *DH3B080ACV3V^^ |
| *DX3B060ACV3V^^ | *DX3B080ACV3V^^ |
| *DH3C100ACV4V^^ | *DH3D120ACV5V^^ |
| *DX3C100ACV4V^^ | *DX3D120ACV5V^^ |
| * PREFIX MAY BE "A" OR "T" / ^^ SUFFIX MAY BE AA THROUGH ZZ | |

**⚠ CAUTION**

**Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.**

# Electrical Data

## *DH3 Schematic Diagram




| DIAGNOSTIC CODES (SEE NOTE 9) | |
|---|---|
| RED LED - FAULT Data - 1 Flash every 20 seconds | |
| 2 FLASHES - SYSTEM LOCKOUT RETRIES OR RECYCLES EXCEEDED | 6 FLASHES - 115 VOLT AC POWER REVERSED OR IGNITER FAULT |
| 3 FLASHES - PRESSURE SWITCH FAULT | 7 FLASHES - GAS VALVE CIRCUIT ERROR |
| | 8 FLASHES - LOW FLAME SENSE SIGNAL |
| 4 FLASHES - OPEN LIMIT SWITCH | 9 FLASHES - OPEN INDUCER LIMIT |
| 5 FLASHES - FLAME SENSED WHEN NO FLAME SHOULD BE PRESENT | 10 FLASHES - COMMUNICATION FAULT |
| | CONTINUOUS ON - INTERNAL CONTROL FAILURE |
| GREEN LED - STATUS | |
| SLOW FLASH - NORMAL, NO CALL FOR HEAT | |
| FAST FLASH - NORMAL, CALL FOR HEAT PRESENT | |
| GREEN AND RED LED'S ON CONTINUOUS - INTERNAL CONTROL FAILURE | |
| GREEN AND RED LED'S OFF CONTINUOUS - FUSE OPEN | |

| WARNING ⚠ | CAUTION ⚠ |
|---|---|
| HAZARDOUS VOLTAGE<br><br>DISCONNECT ALL ELECTRICAL POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.<br><br>FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH. | USE COPPER CONDUCTORS ONLY!<br><br>UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.<br><br>FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT. |

### INTEGRATED FURNACE CONTROL

REPLACE WITH PART CNT 04829 OR EQUIVALENT
ELECTRICAL RATING
INPUT: 25 V.A.C., 60 HZ.
XFMR SEC. CURRENT: 450 MA. + MV LOAD
MV OUTPUT: 1.5 A @ 24 V.A.C.
IND OUTPUT: 3 PHASE OUTPUT
IGN OUTPUT: 2.0 A @ 120V.A.C.
CIRC. BLOWER OUTPUT: 14.5 FLA, 25 LRA @ 120 VAC
HUMIDIFER & AIR CLEANER MAX. LOAD: 1.0 A @ 120 VAC

TIMINGS
PREPURGE: 0 SEC.; INTERPURGE: 60 SEC.
POST PURGE: 5 SECONDS
IGNITOR WARMUP: 20 SECONDS
IAP: 3; TFI: 5 SECONDS
RETRIES: 2; RECYCLES: 10
HEAT ON DELAY: 45 SECONDS
COOL ON DELAY: 0 SECONDS
AUTO RESTART: 60 MINUTES
AUTO RESTART PURGE: 15 SECONDS

TCO THERMAL CUT OUT
PS PRESSURE SWITCH
FRS FLAME ROLLOUT SWITCH
FP FLAME SENSOR
CHASSIS GROUND
HSI HOT SURFACE IGNITER
DOOR SWITCH
FUSE
LC LINE CHOKE

LINE / 24 V — FACTORY WIRING
LINE / 24 V — FIELD WIRING

** INTERNAL THERMAL PROTECTION

CF CAPACITOR
COIL

| | | | |
|---|---|---|---|
| BK | BLACK | GR | GREEN |
| WH | WHITE | BR | BROWN |
| YL | YELLOW | RD | RED |
| OR | ORANGE | BL | BLUE |

WIRE COLOR
BK/1
NUMBER ID (IF ANY)

| | | | |
|---|---|---|---|
| L | LINE | TH | 24 VAC (HOT) |
| N | NEUTRAL | TR | 24 VAC (COMMON) |
| GND | GROUND | MV | MAIN GAS VALVE |
| B/C | COMMON | TNS | TRANSFORMER |
| HLO | HIGH LIMIT OUTPUT | ILI | INDUCER LIMIT INPUT |
| HLI | HIGH LIMIT INPUT | | |

**NOTES:**

1. IF ANY OF THE ORIGINAL WIRING AS SUPPLIED WITH THIS FURNACE MUST BE REPLACED, IT MUST BE WITH WIRE HAVING A TEMPERATURE RATING OF AT LEAST 105 C.
2. USER INTERFACE MUST BE INSTALLED FOR PROPER FURNACE INSTALLATION & SET-UP.
3. CORRECT PERSONALITY MODULE IS REQUIRED FOR PROPER FURNACE OPERATION. PERSONALITY MODULE IS SPECIFIC TO EACH MODEL & SERIAL NUMBER, AND IS TO REMAIN WITHIN IT'S ORIGINAL UNIT.
4. THESE LEADS PROVIDE 120V POWER CONNECTIONS FOR ELECTRONIC AIR CLEANER (EAC) AND HUMIDIFIER (HUM). MAX. LOAD: 1.0 AMPS EACH.
5. USED FOR *DH3C100ACV4V*, *DX3C100ACV4V* AND *DH3D120ACV5V*, *DX3D120ACV5V* MODELS ONLY.
6. ON POWER-UP, LAST FOUR FAULTS, IF ANY, WILL BE FLASHED ON RED LED. GREEN LED WILL BE SOLID ON DURING LAST FAULT RECOVERY.
7. Y1 IS OUTPUT TO NON-COMMUNICATING OUTDOOR UNIT.

## ⚠ CAUTION

**Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.**



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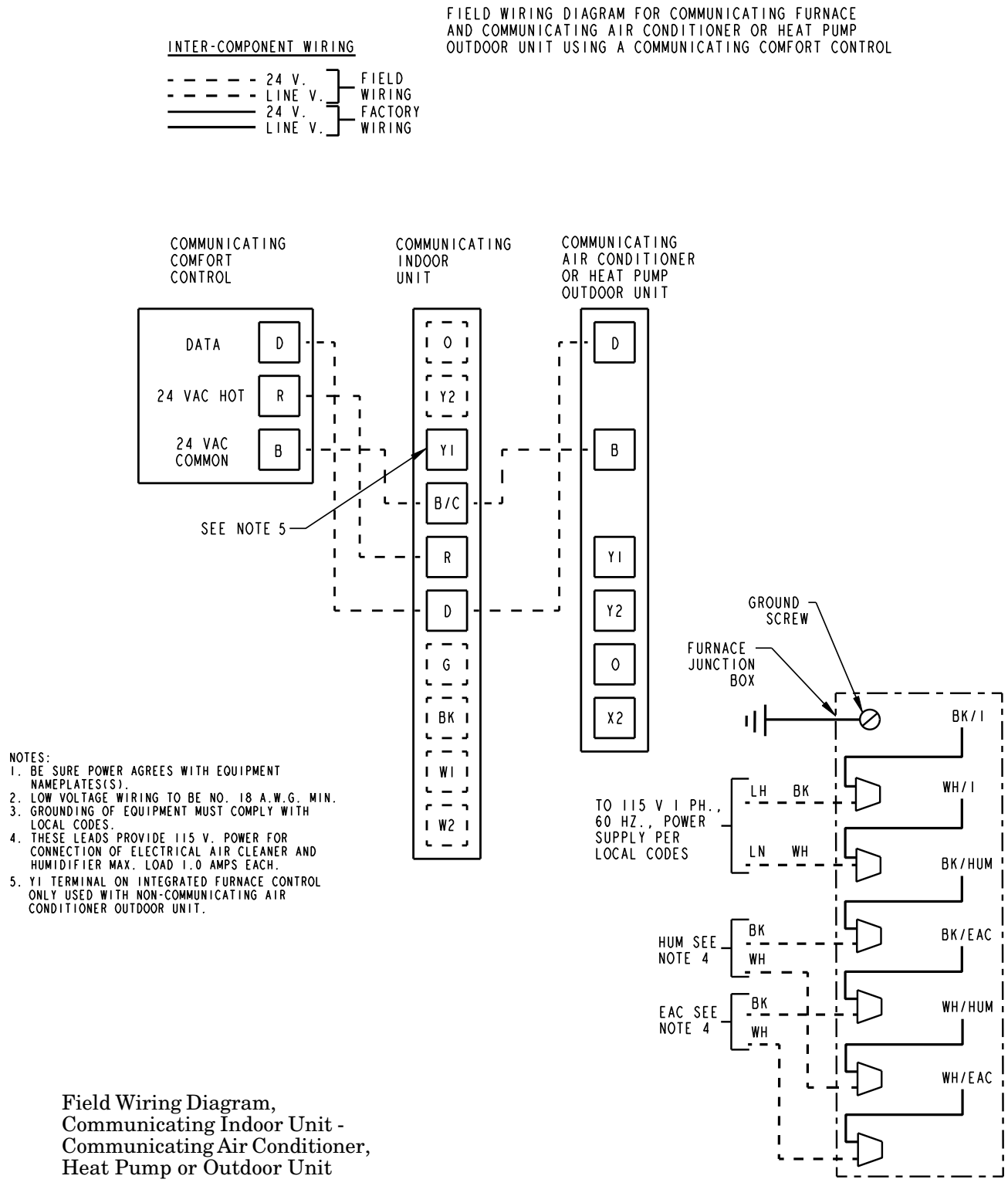
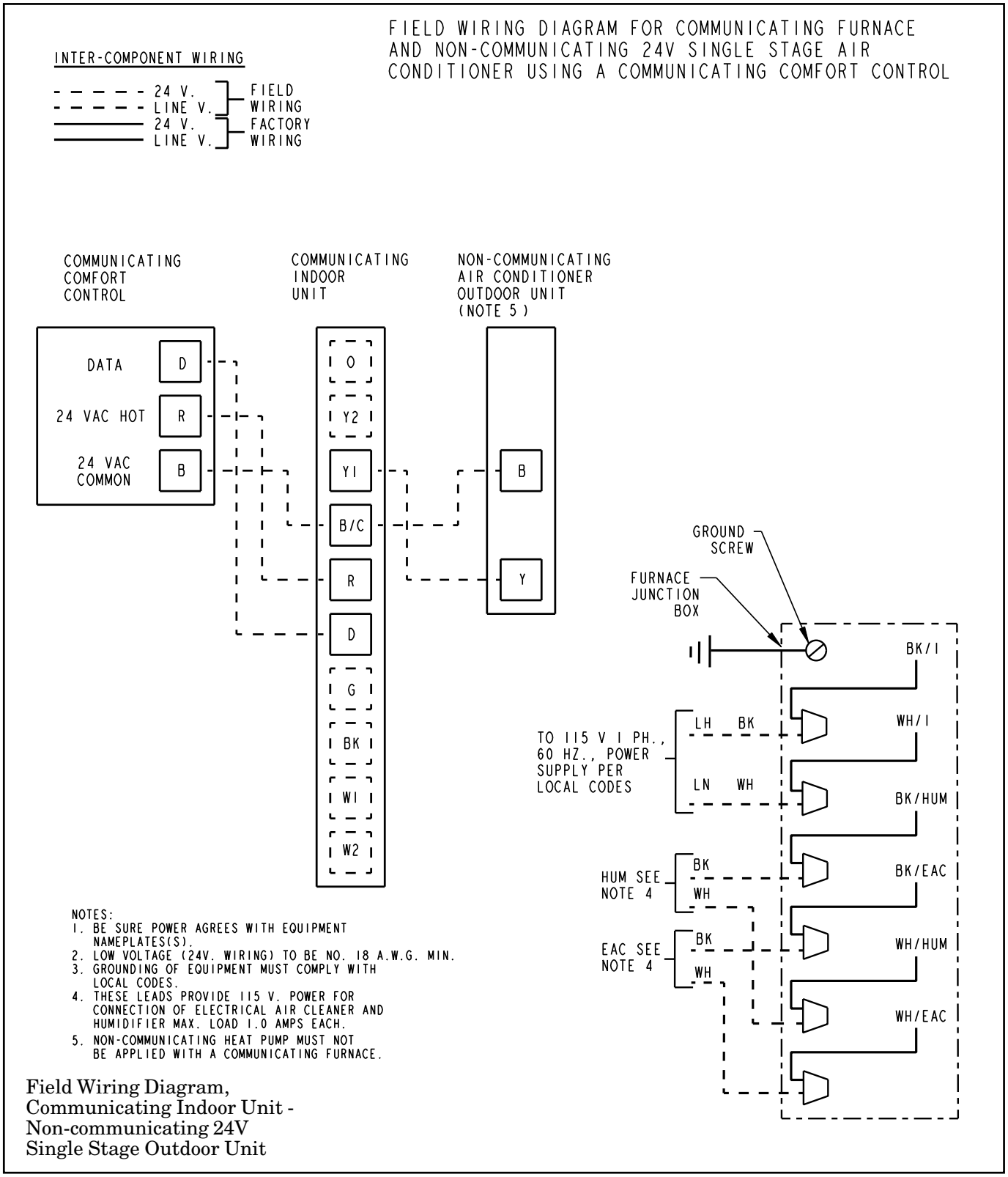



Field Wiring Diagram,
Communicating Indoor Unit -
Communicating Air Conditioner,
Heat Pump or Outdoor Unit

***NOTE:***
***The maximum total cable length for the entire Comfort Control communicating system is 500 ft. 18 AWG. The maximum distance of any single cable from a transformer is 250 ft. 18 AWG.***

***NOTE:***
***When connecting a *FD whole house air cleaner with this furnace, order Kit #14974.***




Field Wiring Diagram,
Communicating Indoor Unit -
Non-communicating 24V
Single Stage Outdoor Unit

***NOTE:***
***The maximum total cable length for the entire Comfort Control communicating system is 500 ft. 18 AWG. The maximum distance of any single cable from a transformer is 250 ft. 18 AWG.***

***NOTE:***
***When connecting a *FD whole house air cleaner with this furnace, order Kit #14974.***



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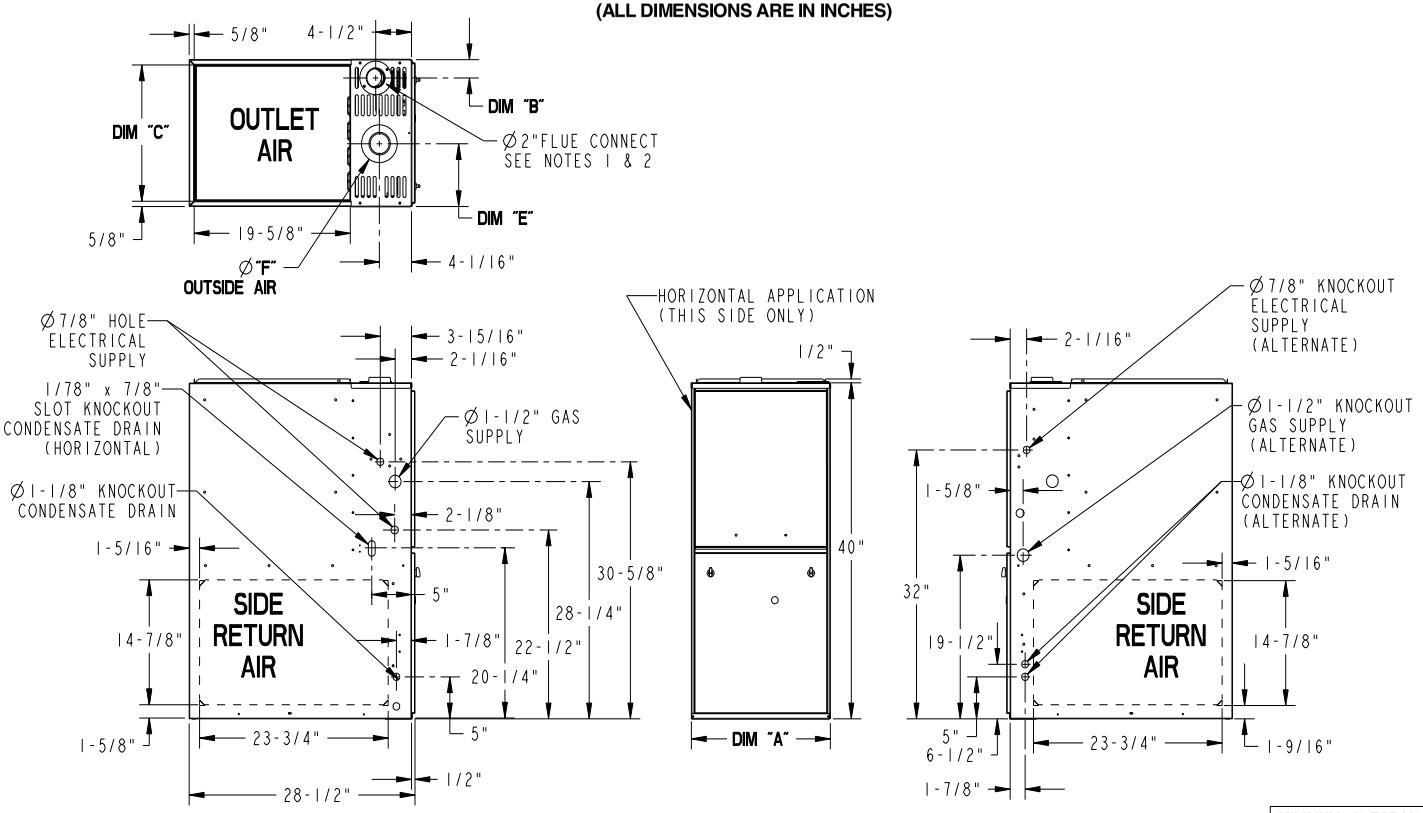
# TUH3-AC-V Outline Drawing

**(ALL DIMENSIONS ARE IN INCHES)**




| MODEL (SEE NOTE 1) | DIM "A" | DIM "B" | DIM "C" | DIM "D" | DIM "E" | DIM "F" |
|---|---|---|---|---|---|---|
| *UH3B060ACV3VA<br>*UH3B080ACV3VA | 17-1/2" | 2-1/4" | 16-1/4" | 16" | 7-1/2" | 2" |
| *UH3C100ACV4VA | 21" | 2-1/2" | 19-3/4" | 19-1/2" | 9" | 3" |
| *UH3D120ACV5VA | 24-1/2" | 2-15/16" | 23-1/4" | 23" | 10" | 3" |

NOTES:
1. DIAMETER OF VENT PIPE MAY BE LIMITED TO 2-1/2" OR 3" ON SOME MODELS AT DIFFERENT ALTITUDES. REFER TO THE VENT LENGTH TABLE FOR PROPER APPLICATION.

* PREFIX MAY BE "A" OR "T"

**MINIMUM CLEARANCE TO COMBUSTIBLE MATERIALS**

**UPFLOW**

| | |
|---|---|
| SIDES | 0 IN. |
| REAR | 0 IN. |
| FRONT | 3 IN. |
| TOP | 1 IN. |
| FLUE | 0 IN. |

**HORIZONTAL (FLUE DISCHARGE ON THE LEFT)**

**ALCOVE**

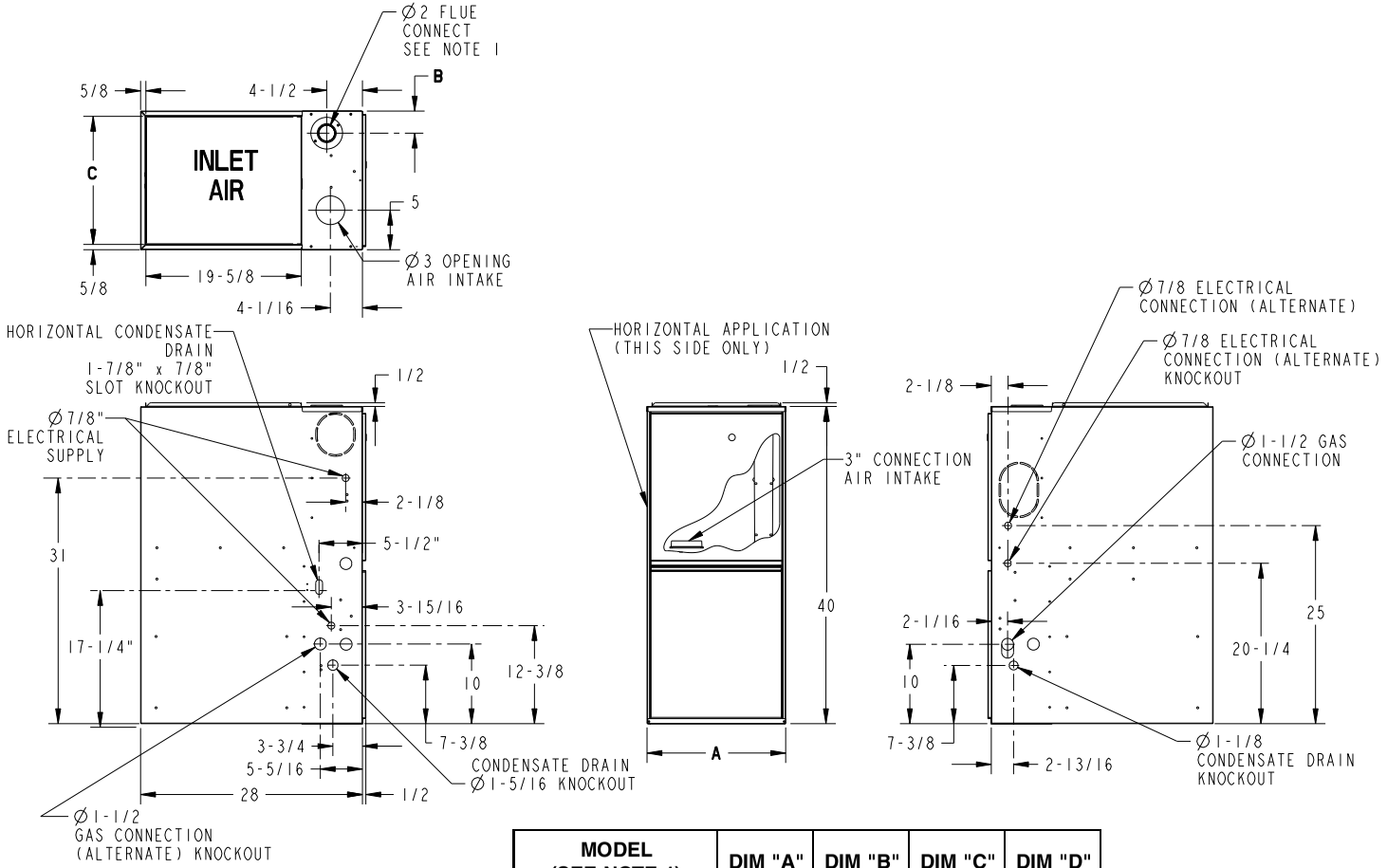
| | |
|---|---|
| SIDES | |
| RIGHT | 0 IN. |
| LEFT | 0 IN. |
| REAR | 6 IN. |
| FRONT | 18 IN. |
| TOP | 1 IN. |
| FLUE | 0 IN. |

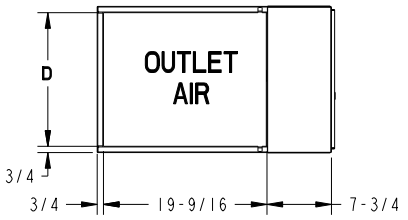
**CLOSET**

| | |
|---|---|
| SIDES | |
| RIGHT | 1 IN. |
| LEFT | 1 IN. |
| REAR | 3 IN. |
| FRONT | 3 IN. |
| TOP | 1 IN. |
| FLUE | 0 IN. |

# TDH3-AC-V DOWNFLOW/ HORIZONTAL OUTLINE DRAWING

**(ALL DIMENSIONS ARE IN INCHES)**




| MODEL (SEE NOTE 1) | DIM "A" | DIM "B" | DIM "C" | DIM "D" |
|---|---|---|---|---|
| *DH3B060ACV3VA<br>*DH3B080ACV3VA | 17-1/2" | 2-1/4" | 16-1/4" | 16" |
| *DH3C100ACV4VA | 21" | 2-1/2" | 19-3/4" | 19-1/2" |
| *DH3D120ACV5VA | 24-1/2" | 2-15/16" | 23-1/4" | 23" |

NOTES:
1. DIAMETER OF VENT PIPE MAY BE LIMITED TO 2-1/2" OR 3" ON SOME MODELS AT DIFFERENT ALTITUDES. REFER TO THE VENT LENGTH TABLE FOR PROPER APPLICATION.

* PREFIX MAY BE "A" OR "T"

**MINIMUM CLEARANCE TO COMBUSTIBLE MATERIALS**

| | |
|---|---|
| **DOWNFLOW** | |
| SIDES | 0 IN. |
| REAR | 0 IN. |
| FRONT | 3 IN. |
| TOP | 1 IN. |
| FLUE | 0 IN. |
| **HORIZONTAL (FLUE DISCHARGE ON THE LEFT)** | |
| **ALCOVE** | |
| SIDES | |
| RIGHT | 0 IN. |
| LEFT | 0 IN. |
| REAR | 6 IN. |
| FRONT | 18 IN. |
| TOP | 1 IN. |
| FLUE | 0 IN. |
| **CLOSET** | |
| SIDES | |
| RIGHT | 1 IN. |
| LEFT | 1 IN. |
| REAR | 3 IN. |
| FRONT | 3 IN. |
| TOP | 1 IN. |
| FLUE | 0 IN. |

# Notes



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*6200 Troup Highway*
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