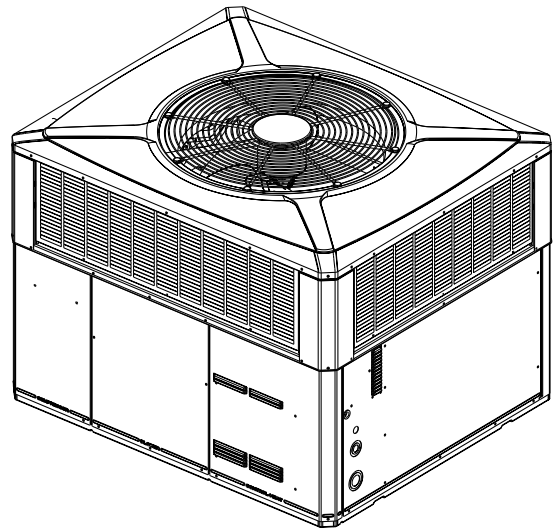


# Submittal

## Single Packaged Heat Pump

A5PH3060A1000A



**Note:** "Graphics in this document are for representation only. Actual model may differ in appearance."

# Product Specifications

| MODEL                                     | A5PH3060A1000A  |
|-------------------------------------------|-----------------|
| RATED Volts/PH/Hz                         | 208-230/1/60    |
| Performance Cooling BTUH <sup>(a)</sup>   | 57000           |
| Indoor Airflow (CFM)                      | 1970            |
| Power Input (KW)                          | 5.00            |
| EER2/SEER2 (BTU/Watt-Hr.) <sup>(b)</sup>  | 10.6/13.4       |
| Sound Power Rating [dB(A)] <sup>(c)</sup> | 80              |
| <b>PERFORMANCE HEATING</b>                |                 |
| (High Temp.) BTUH                         | 56000           |
| Power Input (KW)                          | 4.78            |
| (Low Temp.) BTUH                          | 34800           |
| Power Input (KW)                          | 4.36            |
| HSPF2 (BTUH/Watt-Hr)                      | 6.7             |
| <b>POWER CONN. — V/Ph/Hz</b>              | 208-230/1/60    |
| Min. Brch. Cir. Ampacity <sup>(d)</sup>   | 41              |
| Fuse Size — Max. (amps)                   | 60              |
| Fuse Size — Recmd. (amps)                 | 60              |
| <b>COMPRESSOR</b>                         | SCROLL          |
| VOLTS/PH/HZ                               | 208-230/1/60    |
| R.L. Amps — L.R. Amps                     | 25.6 / 150.0    |
| <b>OUTDOOR COIL — TYPE</b>                | SPINE FIN       |
| Rows/F.P.I                                | 2 / 24          |
| Face Area (sq. ft.)                       | 23              |
| Tube Size (in.)                           | 3/8             |
| Refrigerant Control                       | EXPANSION VALVE |
| <b>INDOOR COIL — TYPE</b>                 | PLATE FIN       |
| Rows/F.P.I                                | 4 / 15          |
| Face Area (sq. ft.)                       | 5               |
| Tube Size (in.)                           | 3/8             |
| Refrigeration Control                     | EXPANSION VALVE |
| Drain Conn. Size (in.)                    | 3/4 FEMALE NPT  |
| <b>OUTDOOR FAN — TYPE</b>                 | PROPELLER       |

| MODEL                                    | A5PH3060A1000A      |
|------------------------------------------|---------------------|
| DIA. (IN.)                               | 28.3                |
| DRIVE/NO. SPEEDS                         | DIRECT/ 1           |
| CFM @ 0.0 in. w.g. <sup>(e)</sup>        | 5500                |
| Motor — HP/R.P.M                         | 1/3 / 825           |
| Volts/Ph/Hz                              | 208-230/1/60        |
| F.L. Amps/L.R Amps                       | 1.7 / 3.5           |
| <b>INDOOR FAN — TYPE</b>                 | CONSTANT TORQUE ECM |
| Dia. x Width (in.)                       | 11.87 X 10.62       |
| Drive/No. Speeds                         | DIRECT/ 4           |
| CFM @ 0.0 in. w.g. <sup>(f)</sup>        | SEE FAN PERF TABLE  |
| Motor — HP/R.P.M.                        | 1 / 1050            |
| Volts/Ph/Hz                              | 208-230/1/60        |
| F.L. Amps                                | 7.4                 |
| <b>FILTER / FURNISHED</b>                | NO                  |
| Type Recommended                         | THROWAWAY           |
| Recmd. Face Area (sq. ft) <sup>(g)</sup> | 5.3                 |
| <b>REFRIGERANT</b>                       | R-454B              |
| Charge (lbs.)                            | 9.96                |
| <b>CHARGING SPECIFICATIONS</b>           |                     |
| Subcooling                               | 8° F                |
| <b>DIMENSIONS</b>                        | H X W X L           |
| Crated (in.)                             | 52 X 47 X 62        |
| <b>WEIGHT</b>                            |                     |
| Shipping (lbs.) / Net (lbs.)             | 596 / 492           |

<sup>(a)</sup> Rated in accordance with AHRI Standard 210/240.

<sup>(b)</sup> Rated in accordance with D.O.E. test procedure.

<sup>(c)</sup> Sound Power values are not adjusted for AHRI 270-95 tonal corrections.

<sup>(d)</sup> Calculated in accordance with currently prevailing Nat'l Electrical Code.

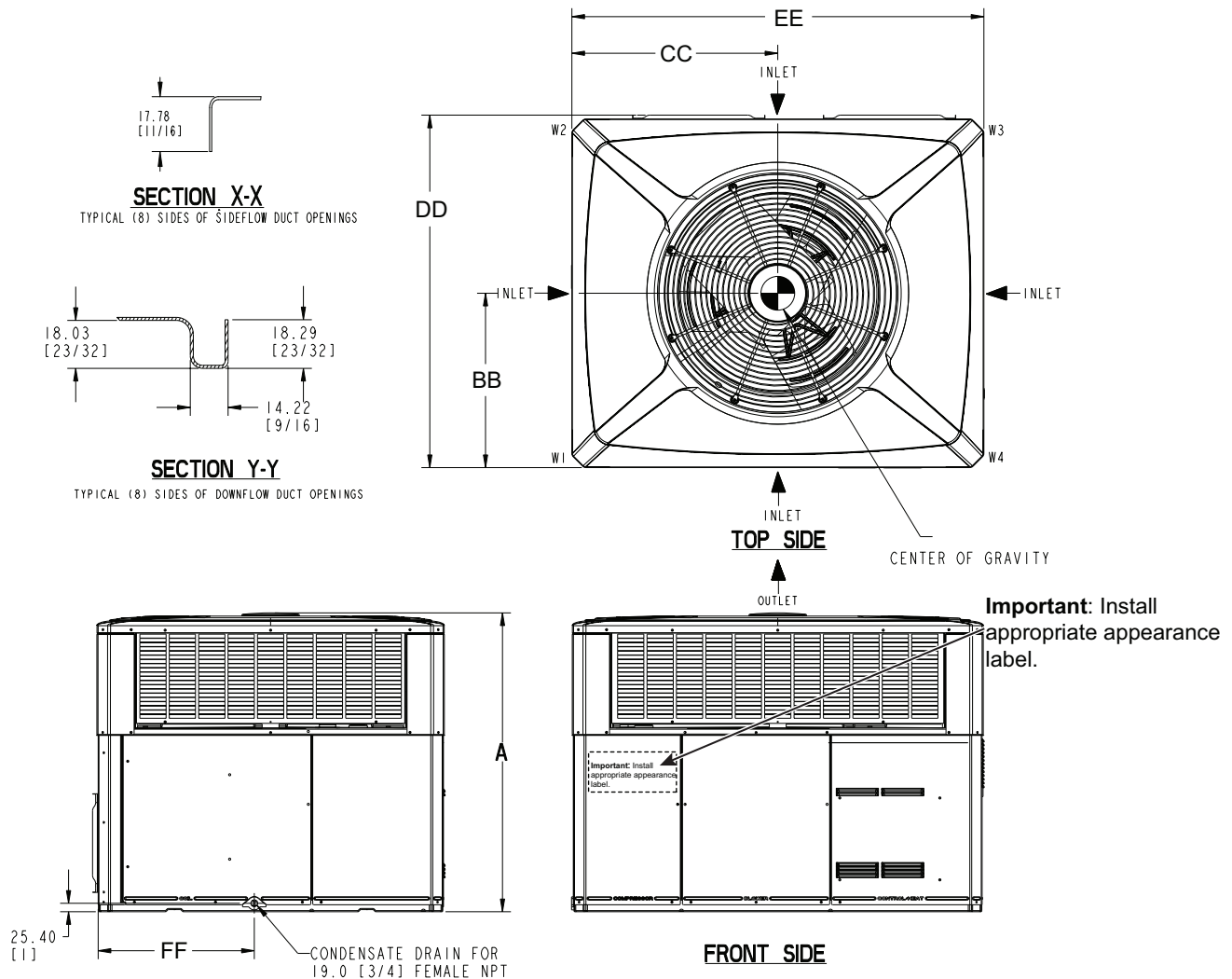
<sup>(e)</sup> Standard Air — Dry Coil — Outdoor.

<sup>(f)</sup> Standard Air — Dry Coil — Indoor

<sup>(g)</sup> Filters must be installed in return air stream. Square footages listed are based on 300 f.p.m. face velocity. If permanent filters are used size per manufacturer's recommendation with a clean resistance of 0.05" W.C.

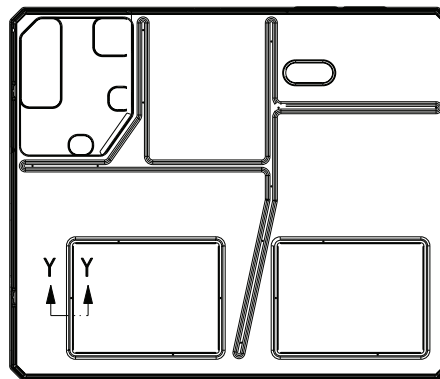
# Determine Unit Clearances

**Figure 1. Space on Sides Requirements**



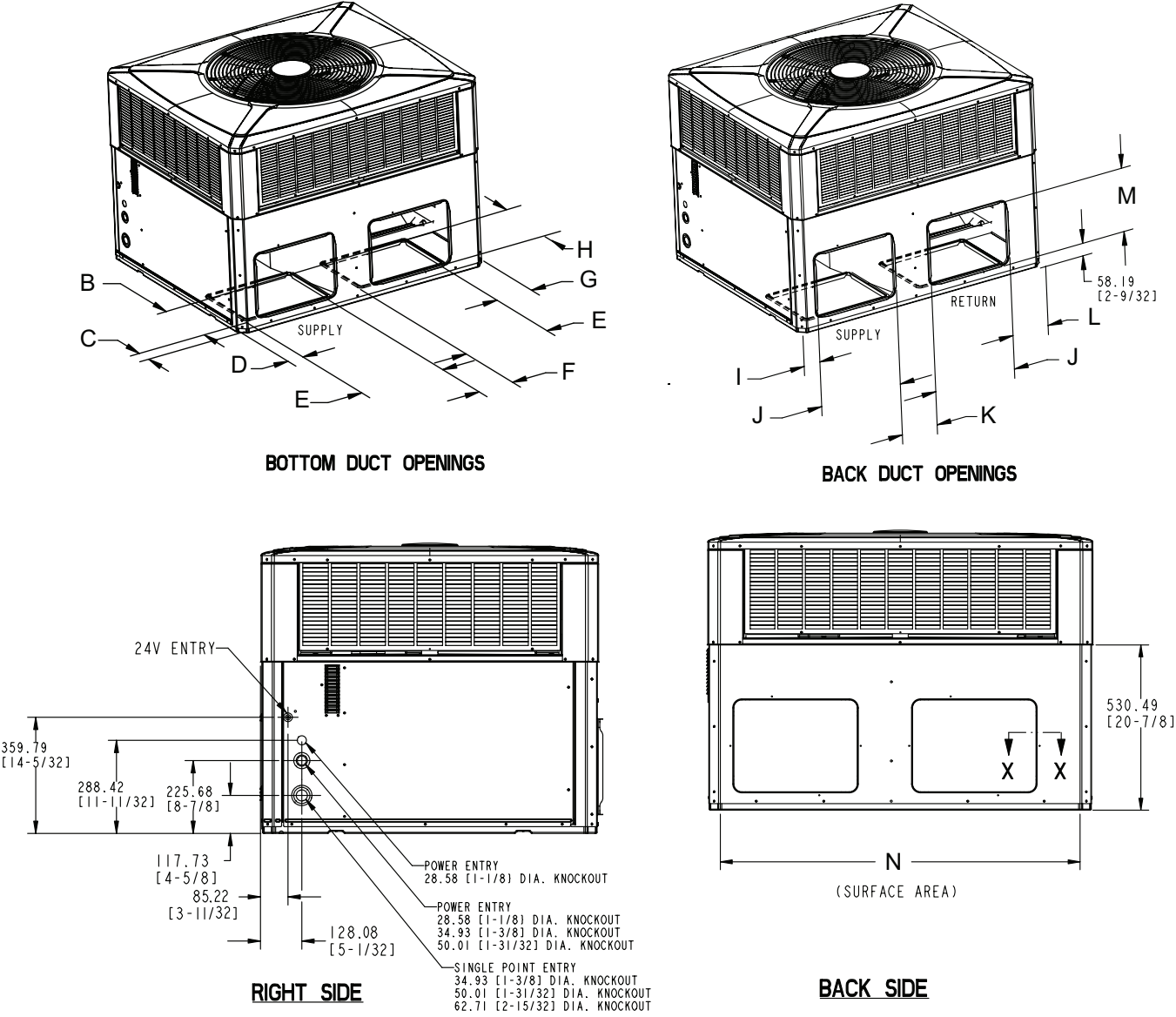
LEFT SIDE

|            | 2 - 3 TON Units                               |               | 3.5 - 5 TON Units |               |
|------------|-----------------------------------------------|---------------|-------------------|---------------|
|            | RECOMMENDED SERVICE CLEARANCE mm [Inches]     |               |                   |               |
|            |                                               | W/ ECONOMIZER |                   | W/ ECONOMIZER |
| BACK SIDE  | 305 [12]                                      | 762 [30]      | 305 [12]          | 762 [30]      |
| LEFT SIDE  | 762 [30]                                      | 914 [36]      | 914 [36]          | 1067 [42]     |
| RIGHT SIDE | 610 [24]                                      | -             | 610 [24]          | -             |
| FRONT SIDE | 1067 [42]                                     | -             | 762 [30]          | -             |
|            | CLEARANCE TO COMBUSTIBLE MATERIAL mm [Inches] |               |                   |               |
| BOTTOM     | 0                                             |               | 0                 |               |
| BACK SIDE  | 25 [1]                                        |               | 25 [1]            |               |
| LEFT SIDE  | 152 [6]                                       |               | 152 [6]           |               |
| RIGHT SIDE | 152 [6]                                       |               | 152 [6]           |               |
| FRONT SIDE | 305 [12]                                      |               | 305 [12]          |               |
| TOP        | 914 [36]                                      |               | 914 [36]          |               |
|            | DIMENSIONS mm [Inches]                        |               |                   |               |
| A          | HEIGHT OF UNIT - TABLE NEXT PAGE              |               |                   |               |
| BB         | CENTER OF GRAVITY - TABLE NEXT PAGE           |               |                   |               |
| CC         | CENTER OF GRAVITY - TABLE NEXT PAGE           |               |                   |               |
| DD -Depth  | 1093.72 [43-1/16]                             |               | 1173.9 [46-1/4]   |               |
| EE -Width  | 1284.99 [50-5/8]                              |               | 1535.94 [60-1/2]  |               |
| FF         | 497.8 [19-5/8]                                |               | 576.00 [22-11/16] |               |



**BOTTOM SIDE**

Figure 2. Bottom and Back Duct Openings



|          | Height mm [in]     | PHYSICAL DIMENSIONS mm [in] |                 |                 |                  |                  |                   |                  |                 |                   |                  |                   |                   |                    |
|----------|--------------------|-----------------------------|-----------------|-----------------|------------------|------------------|-------------------|------------------|-----------------|-------------------|------------------|-------------------|-------------------|--------------------|
|          | A -Height          | B                           | C               | D               | E                | F                | G                 | H                | I               | J                 | K                | L                 | M                 | N                  |
| A5PH3024 | 898.53 [35 - 3/8]  | 304.80<br>[12.0]            | 75.41<br>[2.93] | 75.41<br>[2.93] | 406.40<br>[16.0] | 167.89<br>[6.61] | 173.46<br>[6.8]   | 304.80<br>[12.0] | 79.50<br>[3.13] | 398.22<br>[15.68] | 176.07<br>[6.93] | 177.55<br>[6.99]  | 296.62<br>[11.68] | 1155.45<br>[45.49] |
| A5PH3030 | 949.33 [37 - 3/8]  |                             |                 |                 |                  |                  |                   |                  |                 |                   |                  |                   |                   |                    |
| A5PH3036 |                    |                             |                 |                 |                  |                  |                   |                  |                 |                   |                  |                   |                   |                    |
| A5PH3042 | 1000.13 [39 - 3/8] | 457.20<br>[18.0]            | 75.41<br>[2.97] | 75.41<br>[2.97] | 381.00<br>[15.0] | 244.09<br>[9.61] | 318.75<br>[12.55] | 381.00<br>[15.0] | 79.50<br>[3.13] | 449.02<br>[17.68] | 176.07<br>[6.93] | 322.84<br>[12.71] | 372.82<br>[14.68] | 1402.34<br>[55.21] |
| A5PH3048 |                    |                             |                 |                 |                  |                  |                   |                  |                 |                   |                  |                   |                   |                    |
| A5PH3060 | 1050.93 [41 - 3/8] |                             |                 |                 |                  |                  |                   |                  |                 |                   |                  |                   |                   |                    |

|          | Corner Weights KG [LBS] |            |           |            | SHIPPING WEIGHT KG [LBS] | UNIT WEIGHT KG [LBS] | Center Of Gravity mm [inch] |              |
|----------|-------------------------|------------|-----------|------------|--------------------------|----------------------|-----------------------------|--------------|
|          | W1                      | W2         | W3        | W4         |                          |                      | BB                          | CC           |
| A5PH3024 | 53.5 [118]              | 33.3 [73]  | 24.1 [53] | 38.3 [84]  | 182.8 [403]              | 149.2 [329]          | 430.0 [16.9]                | 565.3 [22.3] |
| A5PH3030 | 56.7 [125]              | 50.3 [110] | 16.6 [37] | 39.2 [86]  | 196.9 [434]              | 162.8 [359]          | 413.5 [16.3]                | 581.0 [22.9] |
| A5PH3036 | 61.8 [136]              | 37.3 [82]  | 26.6 [59] | 41.7 [92]  | 201.4 [444]              | 167.4 [369]          | 430.0 [17.0]                | 535.0 [21.1] |
| A5PH3042 | 67.1 [148]              | 47.6 [105] | 39.5 [87] | 49.9 [110] | 251.3 [554]              | 204.1 [450]          | 449.6 [17.7]                | 641.8 [25.3] |
| A5PH3048 | 71.7 [158]              | 40.8 [90]  | 30.8 [68] | 52.2 [115] | 242.7 [535]              | 242.7 [535]          | 414.0 [16.3]                | 635.0 [25.0] |
| A5PH3060 | 80.3 [177]              | 47.2 [104] | 35.8 [79] | 59.9 [132] | 270.3 [596]              | 270.3 [596]          | 414.0 [16.3]                | 635.0 [25.0] |

# Indoor Fan Performance (230v)

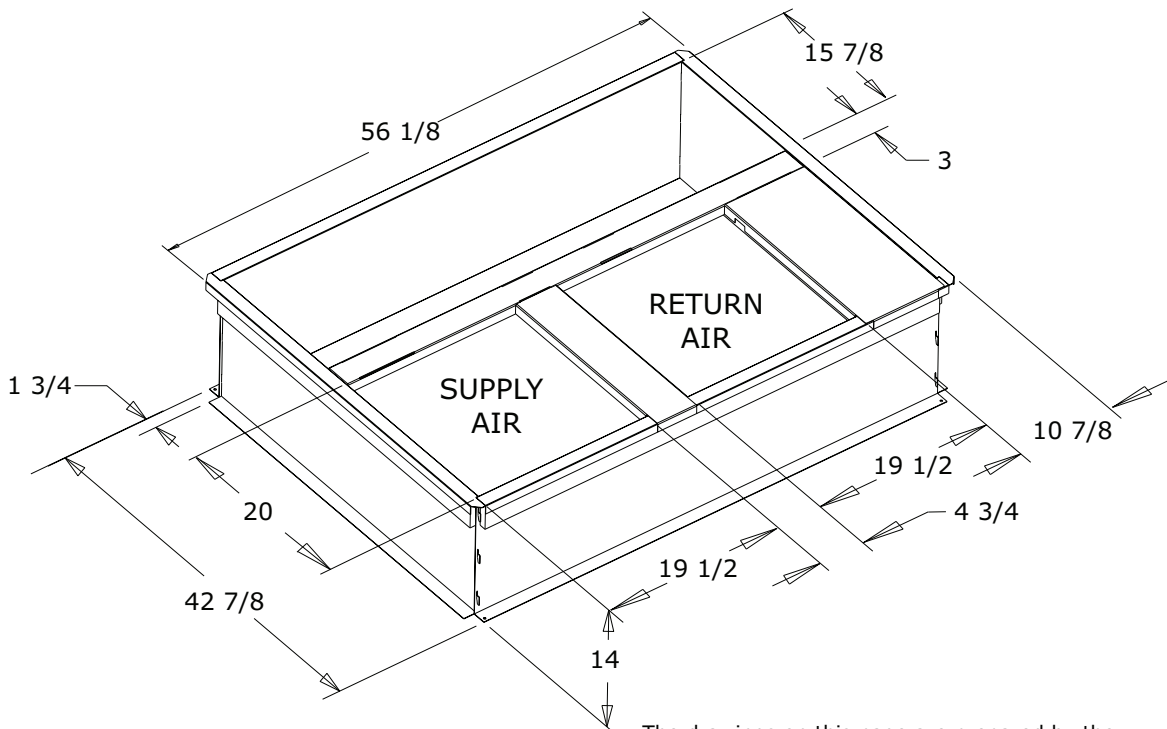
| A5PH3060A1     |       | EXTERNAL STATIC PRESSURE (IN.WG) Horizontal Airflow [Down Airflow] |                |                |                |                |                |                |                |                |                |                |
|----------------|-------|--------------------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Motor Speed    |       | 0.0                                                                | 0.1            | 0.2            | 0.3            | 0.4            | 0.5            | 0.6            | 0.7            | 0.8            | 0.9            | 1              |
| LOW            | Watts | 515<br>[511]                                                       | 523<br>[521]   | 533<br>[533]   | 544<br>[546]   | 554<br>[558]   | -              | -              | -              | -              | -              | -              |
|                | CFM   | 1857<br>[1875]                                                     | 1831<br>[1841] | 1800<br>[1805] | 1766<br>[1766] | 1737<br>[1730] | -              | -              | -              | -              | -              | -              |
| MED-LOW<br>(a) | Watts | -                                                                  | 632<br>[631]   | 644<br>[643]   | 655<br>[654]   | 666<br>[665]   | 677<br>[676]   | 689<br>[687]   | 699<br>[697]   | 714<br>[712]   | 728<br>[726]   | 741<br>[739]   |
|                | CFM   | -                                                                  | 2059<br>[2070] | 2020<br>[2031] | 1990<br>[2001] | 1960<br>[1971] | 1928<br>[1939] | 1895<br>[1905] | 1871<br>[1881] | 1828<br>[1838] | 1786<br>[1796] | 1748<br>[1758] |
| MED-HIGH       | Watts | -                                                                  | 759<br>[758]   | 769<br>[771]   | 779<br>[786]   | 788<br>[801]   | 803<br>[815]   | 816<br>[829]   | 830<br>[839]   | 845<br>[849]   | 860<br>[858]   | 874<br>[872]   |
|                | CFM   | -                                                                  | 2058<br>[2063] | 2032<br>[2034] | 2003<br>[1999] | 1974<br>[1965] | 1943<br>[1931] | 1911<br>[1894] | 1877<br>[1869] | 1843<br>[1846] | 1807<br>[1795] | 1771<br>[1759] |
| HIGH           | Watts | -                                                                  | 910<br>[908]   | 921<br>[919]   | 932<br>[930]   | 941<br>[942]   | 956<br>[960]   | 969<br>[971]   | 983<br>[988]   | 997<br>[997]   | 1010<br>[1001] | 1021<br>[1018] |
|                | CFM   | -                                                                  | 2177<br>[2184] | 2152<br>[2150] | 2127<br>[2104] | 2105<br>[2073] | 2071<br>[2027] | 2041<br>[1998] | 2009<br>[1961] | 1975<br>[1937] | 1940<br>[1905] | 1903<br>[1890] |

**Note:** Airflow must not exceed 2250 CFM due to condensate blowoff.

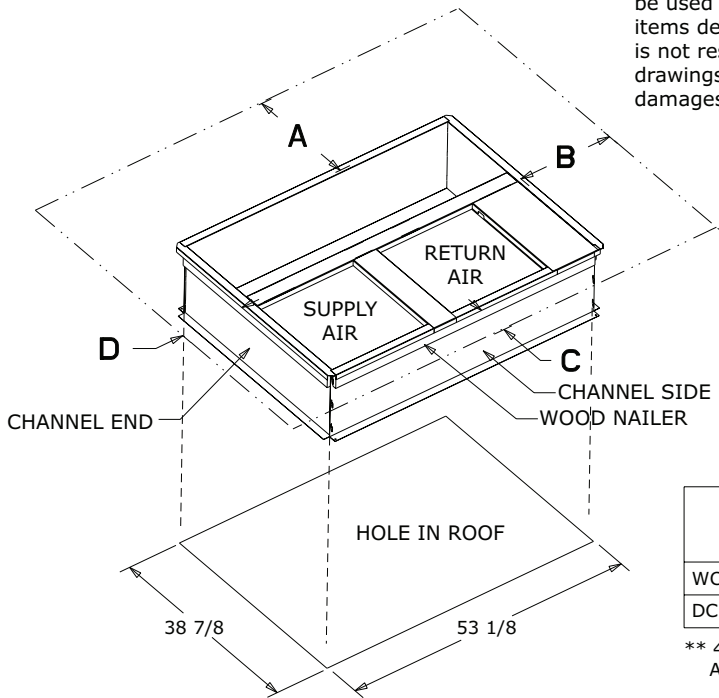
(a) Factory Default Settings.

# Full Perimeter Roof Mounting Curb

**Figure 3. 3.5 — 5.0 Ton Models**  
**BAYCURB051A Full Perimeter Roof Mounting Curb**



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|         | SERVICE CLEARANCE DIMENSIONS |       |         |       |
|---------|------------------------------|-------|---------|-------|
|         | A                            | B     | C       | D     |
| WC*/TC* | 42.00                        | 36.00 | 12.00** | 24.00 |
| DC*/YC* | 42.00                        | 36.00 | 12.00** | 36.00 |

\*\* 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY

# Supplementary Electric Heater

**Table 1. BAYHTRG — Supplementary Electric Heaters**

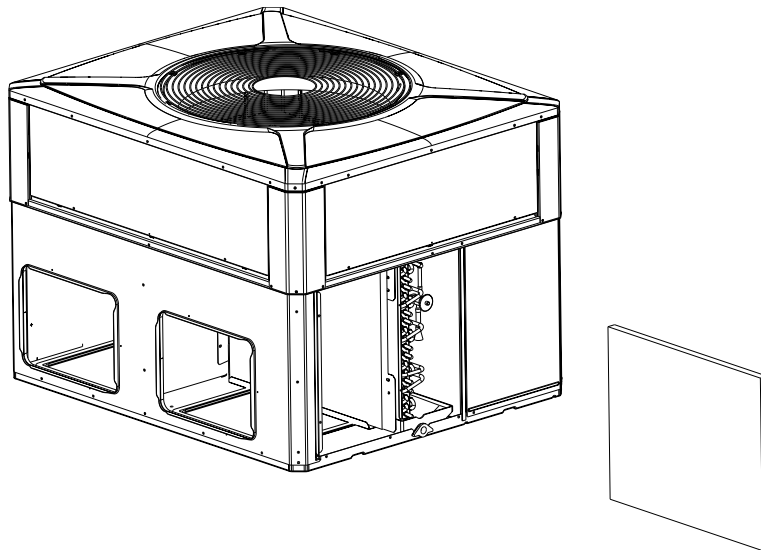
| UNIT MODEL | ELECTRIC HEATER MODEL | RATED VOLT-AGE | PHASE | AMPS   | HEATER CAPACITY |             | NO. OF STAGES | KW/STAGE   |          | MCA     | MAX. FUSE OR HACR CKT BKR SIZE | CANADA ONLY MAX. CKT BKR SIZE |
|------------|-----------------------|----------------|-------|--------|-----------------|-------------|---------------|------------|----------|---------|--------------------------------|-------------------------------|
|            |                       |                |       |        | KW              | BTUH        |               | 1          | 2        |         |                                |                               |
| 3024-3060  | BAYHTRG105            | 208/240        | 1     | 18/21  | 3.76/5.0        | 12800/17100 | 1             | 3.76/5.0   | —        | 23/26   | 25/30                          | 25/30                         |
| 3024-3060  | BAYHTRG108            | 208/240        | 1     | 29/33  | 6.0/8.0         | 20500/27300 | 1             | 6.0/8.0    | —        | 36/41   | 40/45                          | 40/45                         |
| 3024-3060  | BAYHTRG110            | 208/240        | 1     | 36/42  | 7.5/10.0        | 25600/34100 | 1             | 7.5/10.0   | —        | 45/52   | 45/60                          | 45/60                         |
| 3030-3060  | BAYHTRG115            | 208/240        | 1     | 54/63  | 11.27/15.0      | 38500/51200 | 2             | 7.5/10.0   | 3.76/5.0 | 68/78   | 70/80                          | 70/80                         |
| 3048-3060  | BAYHTRG120            | 208/240        | 1     | 72/83  | 15.0/20.0       | 51200/68300 | 2             | 7.5/10.0   | 7.5/10.0 | 90/104  | 90/110                         | 90/110                        |
| 3060       | BAYHTRG125            | 208/240        | 1     | 90/104 | 18.78/25.0      | 64100/85300 | 2             | 11.26/15.0 | 7.5/10.0 | 113/130 | 125/150                        | 125/150                       |

**Table 2. BAYSPEK — Single Power Entry Kit**

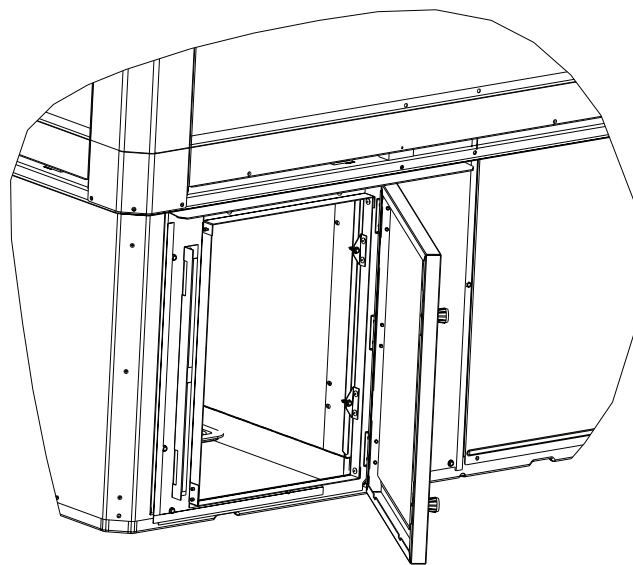
| SINGLE CIRCUIT POWER AMPACITY AND OVER CURRENT PROTECTION |                        |              |             |                         |
|-----------------------------------------------------------|------------------------|--------------|-------------|-------------------------|
| UNIT MODEL                                                | SINGLE POWER ENTRY KIT | HEATER MODEL | MIN CKT AMP | MAX OVER-CURRENT DEVICE |
| A5PH3060A                                                 | BAYSPEK62              | BAYHTRV105   | 67          | 80                      |
|                                                           |                        | BAYHTRV108   | 83          | 100                     |
|                                                           |                        | BAYHTRV110   | 93          | 100                     |
|                                                           | BAYSPEK63              | BAYHTRV115   | 119         | 125                     |
|                                                           |                        | BAYHTRV120   | 145         | 150                     |

## Optional Equipment — Filter Rack

**Figure 4. BAYFLTR101 Filter Rack (2.0 – 3.0 Ton Models)  
BAYFLTR201 (3.5 – 5.0 Ton Models)  
(Mounts in Filter/Coil Section)**



**Figure 5. BAYACCDOR1A Hinged Filter Access Door (2.0 – 3.0 Ton Models)  
BAYACCDOR2A (3.5 – 5.0 Ton Models)  
Replaces Filter/Coil Access Panel**



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## Optional Equipment — Economizer

**Table 3. BAYECON105,106A Down Discharge Economizer and Rain Hood (Mounts Over Horizontal Return Air Opening)**

|  | Economizer  | Unit Application Models |
|--|-------------|-------------------------|
|  | BAYECON105A | 2.0 — 3.0 Ton Models    |
|  | BAYECON106A | 3.5 — 5.0 Ton Models    |

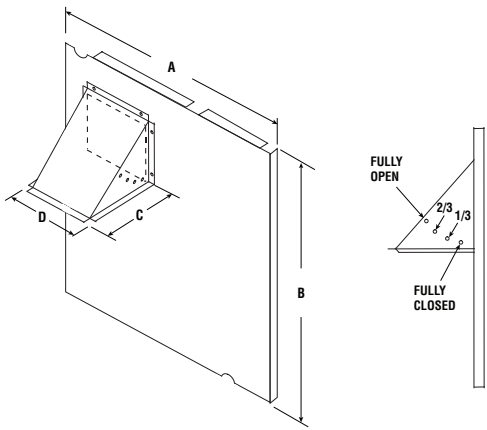
**Table 4. BAYCON205, 206A Horizontal Economizer and Rain Hood**

| Economizer  | Models        | A   | B         | C       | D         | E         | F       |
|-------------|---------------|-----|-----------|---------|-----------|-----------|---------|
| BAYECON205A | 2.0 — 3.0 Ton | 22" | 20"       | 16-7/8" | 15-11/16" | 11-11/16" | 15"     |
| BAYECON206A | 3.5 — 5.0 Ton | 26" | 22-21/32" | 19"     | 17-11/16" | 14-11/16" | 21-3/8" |

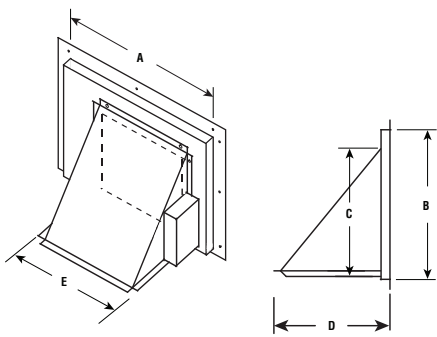
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## Optional Equipment — Outside Air Damper

**Table 5. BAYOSAH001 and 002A Outside Air Damper**  
(Replaces Filter/Coil Access Panel)

|  | Manual Fresh Air Model | Unit Application Models | A        | B         | C       | D       |
|-----------------------------------------------------------------------------------|------------------------|-------------------------|----------|-----------|---------|---------|
|                                                                                   | BAYOSAH001A            | 2.0 — 3.0 Ton           | 22-7/16" | 20-11/16" | 12-3/8" | 9-3/16" |
|                                                                                   | BAYOSAH002A            | 3.5 — 5.0 Ton           | 25-3/16" | 20-11/16" | 12-3/8" | 9-3/16" |

**Table 6. BAYDM-PR101 and 102A, 25% Motorized Outside Air Damper**  
(Mounts Over Horizontal Return Air Opening)

|  | Manual Fresh Air Model | Unit Application Models | A         | B         | C       | D       | E       |
|------------------------------------------------------------------------------------|------------------------|-------------------------|-----------|-----------|---------|---------|---------|
|                                                                                    | BAYDM-PR101A           | 2.0 — 3.0 Ton           | 15-13/16" | 11-13/16" | 10-1/4" | 11-1/2" | 12-1/4" |
|                                                                                    | BAYDM-PR102A           | 3.5 — 5.0 Ton           | 18-3/16"  | 15-1/8"   | 10-1/4" | 11-1/2" | 12-1/4" |

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# Mechanical Specifications

## General

The units shall be horizontal airflow as shipped and convertible to downflow. All units shall be factory assembled, piped, internally wired and fully charged with refrigerant. Units shall be certified to UL Standard 1995. All units shall be factory run tested to check cooling operation, fan and blower rotation and control or TXV sequence. Units shall be designed to operate at ambient temperatures between 115°F and 55°F in cooling as manufactured. Cooling performance shall be rated in accordance with AHRI standards.

## Unit Casing

All components shall be mounted in a weather-resistant steel cabinet with an enamel finish. Access panels shall be provided for unit controls and indoor coil and fans. Indoor air section compartment shall be completely insulated with fireproof, permanent, odorless fiber material. Knockouts shall be provided for utility and control connections. Drain connections shall be provided to accommodate indoor water runoff.

## Compressor

The compressor shall be hermetically sealed, high efficiency scroll compressors. Internal overcurrent and over temperature protection, internal pressure relief shall be standard. Other features include centrifugal oil pump, low vibration and noise.

## Refrigeration System

All units shall have refrigerant control. Service pressure tap ports and a refrigerant line filter shall be standard.

**Evaporator Coil** Internally enhanced 3/8" OD seamless copper tubing mechanically bonded to aluminum fins, factory pressure tested at 480 PSIG and leak tested at 250 to 300 PSIG. All units have TXV to control refrigerant flow.

## Condenser Coil

The Spine Fin™ condenser coil shall be continuously wrapped, corrosion resistant all aluminum with minimum brazed joints. This coil is 3/8" OD seamless aluminum tubing glued to a continuous aluminum fin. Coils are lab tested to withstand 2,000 pounds of pressure per square inch. The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

## Indoor Air Fan

Constant Torque, forward-curved, centrifugal wheel in a Composite Vortica® Blower housing. Motor shall have thermal overload protection and permanently lubricated motor bearings. Motor/blower assembly isolated from unit with rubber mounts.

## Outdoor Fan

One direct-drive, statically and dynamically balanced propeller fan shall be used in a draw-through vertical discharge configuration. Permanently lubricated weather proof motor shall have built-in thermal overload protection.

## System Controls

System controls include condenser fan, evaporator fan and compressor contactors.

## Accessories Roof Curb

The roof curb shall be designed to mate with the unit and provide support and complete weathertight installation when properly installed. Adhesive back polyurethane sealing strips shall be provided to ensure an airtight seal between supply and return openings of the curb and unit. The roof curb design allows field fabricated ductwork to be connected directly to the curb. Curb ships knocked down for field assembly, and includes factory installed wood nailer strips.

## Electric Heaters

Each heater assembly shall include power supply fusing if over 48 amps, automatic resetting limit switches and heat limiters for thermal protection. Heaters shall be provided with polarized plugs for quick connection to unit low voltage wiring. Electric heat modules shall be UL listed.

## Single Source Power Entry

This accessory when used with electric heat accessory shall allow single source power connection to unit and heater combination. Single source power entry kits shall have specific matching heater(s). Kit shall include high voltage terminal blocks, fuse blocks and fuses, cut-to-length interconnecting wiring, and junction box (if required) to provide power sources with fuse protection as required for both the unit and accessory heater. Kit components shall install within the heater cabinet in the heater access section. Single source branch power circuit shall be protected and wired in accordance with local codes.

## Mechanical Specifications

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### Fully Modulating Economizer

This accessory shall be field installed and be composed of the following items: 0–100 % fresh air damper, damper drive motor, fixed dry bulb enthalpy control, and low voltage pigtails for electrical connections. Solid state enthalpy or differential enthalpy control is optional. Economizer operations shall be controlled by the preset position of the enthalpy control. A barometric relief damper shall be standard with the economizer and provide a pressure operated damper that shall be gravity closing and prohibit entrance of outside air on equipment "off" cycle. Economizer requires BAYRLAY004B relay kit to interface the economizer to the heat pump.

### Manual Outside Air Dampers

Rain hood and screen shall be field installed. Suitable for up to 25% outside air.

### Start Kit

Extra compressor starting capacity for single phase equipment.

### Control Options

#### Standard Indoor Thermostats

Two stage heating/cooling or one stage heating/cooling thermostats shall be available in either manual or automatic changeover.

#### Programmable Electronic Night Setting Thermostat

Programmable electronic thermostat shall provide heating setback and cooling setup with 7–day programming capability. 1H/1C or 2H/2C models available.

## About Trane and American Standard Heating and Air Conditioning

Trane and American Standard create comfortable, energy efficient indoor environments for residential applications. For more information, please visit [www.trane.com](http://www.trane.com) or [www.americanstandardair.com](http://www.americanstandardair.com).



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