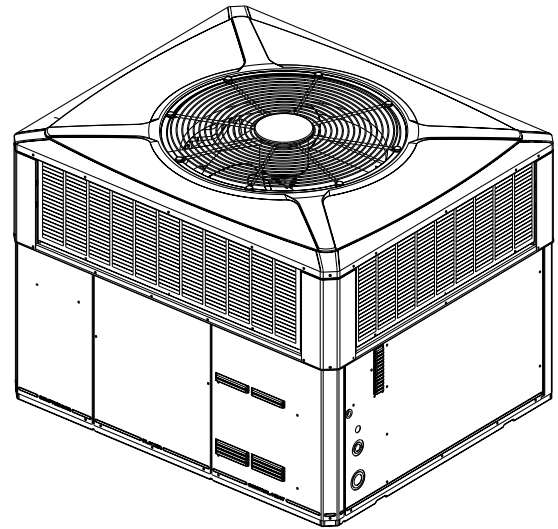




# Product Data

## Single Packaged Heat Pump, 16 SEER Two Stage, Convertible, 2 – 5 Ton, R-410A

4WCZ6036B3000A  
4WCZ6036B4000A  
4WCZ6048B3000A  
4WCZ6048B4000A  
4WCZ6060B3000A  
4WCZ6060B4000A



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

*Note: "Unit specific Service Facts available online."*



# SAFETY SECTION

*Important: This document contains a wiring diagram, a parts list, and service information. This is customer property and is to remain with this unit. Please return to service information pack upon completion of work.*

**⚠ WARNING**

**HAZARDOUS VOLTAGE!**

Failure to follow this Warning could result in property damage, severe personal injury, or death.

Disconnect all electric power, including remote disconnects before servicing. Follow proper lockout/tagout procedures to ensure the power cannot be inadvertently energized.

**⚠ WARNING**

**SAFETY AND ELECTRICAL HAZARD!**

Failure to follow this Warning could result in property damage, severe personal injury, or death.

These servicing instructions are for use by qualified personnel only. To reduce the risk of electrical shock, do not perform any servicing other than that contained in these operating instructions unless you are qualified to do so.

**⚠ CAUTION**

**GROUNDING REQUIRED!**

Failure to inspect or use proper service tools may result in equipment damage or personal injury.

Reconnect all grounding devices. All parts of this product that are capable of conducting electrical current are grounded. If grounding wires, screws, straps, clips, nuts, or washers used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

**⚠ WARNING**

**UNIT CONTAINS R-410A REFRIGERANT!**

Failure to use proper service tools may result in equipment damage or personal injury. R-410A operating pressure exceeds the limit of R-22. Proper service equipment is required. Service using only R-410A Refrigerant and approved POE compressor oil.

**⚠ WARNING**

**SAFETY HAZARD!**

Operating the unit without the access panels properly installed may result in severe personal injury or death.

Do not operate the unit without the evaporator fan access panel or evaporator coil access panel in place.

**⚠ WARNING**

**WARNING!**

This product can expose you to chemicals including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

*Important: Wear appropriate gloves, arm sleeve protectors and eye protection when servicing or maintaining this equipment.*

*Important: Air filters and media wheels or plates shall meet the test requirements in UL 900.*



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# Single Packaged Heat Pump System

**Introducing the new Trane Single Heat Pump System**

**Single Packaged Electric Heat Pumps are easy and versatile to install.**

Because cooling and heating functions are all contained in a single cabinet, Trane packaged heat pump systems are easy to install and service. It can be flush mounted beside your home at ground level or placed on the roof for horizontal or downflow installation. When connected to an optional Trane thermostat control, and air distribution ducts, you have a highly efficient, total home comfort system.

**Single Packaged Electric Heat Pump Systems are unmatched in quality and reliability.**

All major components on these products, including the compressor, have been designed and manufactured for maximum service. Every compressor is designed and manufactured to exacting specifications. Each design is life tested in extreme environments to ensure reliable and long lasting operation in normal applications. Each compressor has internal motor protection for added reliability.

**Single Packaged Electric Heat Pump Systems provide better performance.**

Our single packaged cooling/heating units offer cooling/heating efficiencies that are unmatched in the industry and provide you with a product far superior in performance than the competition.



# Optional Equipment Listing

**Optional Equipment for 4WCZ6 Packaged Units (check mark indicates accessories included)**

|   |                |
|---|----------------|
| Hinged Filter Access Door (4WCZ6036) <sup>(a)</sup>                                   | BAYACCDOR1A[ ] |
| Hinged Filter Access Door (4WCZ6048-060) <sup>(a)</sup>                               | BAYACCDOR2A[ ] |
| Roof Curb Full Perimeter (4WCZ6036) <sup>(b)</sup>                                    | BAYCURB050A[ ] |
| Roof Curb Full Perimeter (4WCZ6048-060) <sup>(b)</sup>                                | BAYCURB051A[ ] |
| Roof Curb Utility Extension Kit (BAYCURB050A)   | BAYUTIL101B[ ] |
| Roof Curb Utility Extension Kit (BAYCURB051A)   | BAYUTIL102B[ ] |
| 0-25% Motorized Outside Air Damper (4WCZ6036)   | BAYDMPR101A[ ] |
| 0-25% Motorized Outside Air Damper (4WCZ6048-060)                                     | BAYDMPR102A[ ] |
| Outside Air Control for V.S. Economizer (4WCZ6036-060)                                | BAYOSAC001B[ ] |
| 0-25% Manual Fresh Air Damper (4WCZ6036) <sup>(c)</sup> (d)                           | BAYOSAH001A[ ] |
| 0-25% Manual Fresh Air Damper (4WCZ6048-060) <sup>(c)</sup> (a)                       | BAYOSAH002A[ ] |
| 0-100% Mod Economizer w/Baro. Relief (4WCZ6036) <sup>(c)</sup> (e) (f)                | BAYECON103A[ ] |
| 0-100% Mod. Economizer w/Baro. Relief (4WCZ6048-060) <sup>(c)</sup> (e) (f)           | BAYECON104A[ ] |
| 0-100% Horizontal Economizer (4WCZ6036) <sup>(c)</sup> (e)                            | BAYECON203A[ ] |
| 0-100% Horizontal Economizer (4WCZ6048-060) <sup>(c)</sup> (e)                        | BAYECON204A[ ] |
| Economizer Relay Kit (required for Heat Pump applications)                            | BAYRLAY006A[ ] |
| Enthalpy Control for Economizer (solid state)   | BAYENTH001A[ ] |
| Remote Potentiometer (All-BAYECON***A)  | BAYSTAT023[ ]  |
| 1"-2" Filter Frame (4WCZ6036) (20 x 25 filter not included) <sup>(c)</sup>            | BAYFLTR101B[ ] |
| 1"-2" Filter Frame (4WCZ6048-060) (20 x 20, 20X18 filter not included) <sup>(c)</sup> | BAYFLTR201B[ ] |
| Evaporator Defrost Control (Low Ambient Cooling) Kit <sup>(g)</sup>                   | BAYLOAM011A[ ] |
| Head Pressure Control (Low Ambient Cool) (208/240v) Kit <sup>(g)</sup>                | BAYLOAM105A[ ] |
| Crankcase Heater Scroll (4WCZ6048-060)(230v) <sup>(g)</sup>                           | BAYCCHT102A[ ] |
| Crankcase Heater Scroll (4WCZ6036)(230v) <sup>(g)</sup>                               | BAYCCHT103A[ ] |
| Crankcase Heater Scroll (4WCZ6048, 060)(460v) <sup>(g)</sup>                          | BAYCCHT404B[ ] |
| Crankcase Heater Scroll (4WCZ6036)(460v) <sup>(g)</sup>                               | BAYCCHT405A[ ] |
| Adapter Curb 4WCZ6036 to BAYCURB030,38  | BAYADAP050A[ ] |
| Adapter Curb 4WCZ6036 to BAYCURB033   | BAYADAP051A[ ] |
| Adapter Curb 4WCZ6048-060A to BAYCURB030,38   | BAYADAP052A[ ] |
| Adapter Curb 4WCZ6048-060A to BAYCURB033  | BAYADAP053A[ ] |
| Adapter Curb 4WCZ6048-060A to BAYCURB034  | BAYADAP054A[ ] |
| 12" Duct Shroud Covers Horizontal 4WCZ6036-060 <sup>(h)</sup>                         | BAYCOVR112A[ ] |
| 18" Duct Shroud Covers Horizontal 4WCZ6036-060 <sup>(h)</sup>                         | BAYCOVR118A[ ] |
| Extreme Condition Mounting Kit - All BAYCURB & BAYADAP                                | BAYEXMK001A[ ] |
| Extreme Condition Mounting Kit - All BAYUTIL  | BAYEXMK002A[ ] |
| Extreme Condition Mounting Kit - All Slab Mounts                                      | BAYEXMK003A[ ] |
| Lifting Lug Kit   | BAYLIFT002B[ ] |

<sup>(a)</sup> BAYACCDOR1A requires BAYFLTR101B & BAYACCDOR2A requires BAYFLTR201B. They are not backward compatible to BAYFLTR101/201A.

<sup>(b)</sup> Ships knocked down.

<sup>(c)</sup> Must use internal filter frame when economizer or fresh air kit is used.

<sup>(d)</sup> BAYOSAH001A and BAYOSAH002A are not compatible with BAYACCDOR1A or BAYACCDOR2A.

<sup>(e)</sup> Dry bulb control standard with economizer.

<sup>(f)</sup> Downflow only.

<sup>(g)</sup> Low Ambient cooling requires crankcase heater (BAYCCHT—A).

<sup>(h)</sup> BAYCOVR112,118A will not cover 18" square-to-round applications.



# Product Specification

| Model                                     | 4WCZ6036*3                       | 4WCZ6048*3     | 4WCZ6060*3    | 4WCZ6036*4     | 4WCZ6048*4     | 4WCZ6060*4    |
|---|----------------------------------|----------------|---------------|----------------|----------------|---------------|
| RATED Volts/PH/Hz                         | 208-230/3/60                     |                |               | 460/3/60       |                |               |
| Performance Cooling BTUH <sup>(a)</sup>   | 36000                            | 47500          | 57000         | 36000          | 47500          | 57000         |
| Indoor Airflow (CFM)                      | 28800                            | 1575           | 1780          | 1125           | 1575           | 1780          |
| Power Input (KW)                          | <b>LOCATED ON UNIT NAMEPLATE</b> |                |               |                |                |               |
| EERH/L/SEER BTU/Watt-Hr <sup>(b)</sup>    | 11/16/16                         | 12.2/ 17.45/16 | 11.5/ 15.9/15 | 12.2/ 17.5/16  | 12/ 17.5/16    | 11.5/ 15.9/15 |
| Sound Power Rating [dB(A)] <sup>(c)</sup> | 70                               | 72             | 74            | 70             | 72             | 74            |
| <b>PERFORMANCE HEATING</b>                |                                  |                |               |                |                |               |
| (High Temp.) BTUH (High/Low)              | 31000 /22400                     | 42000 /31200   | 53500 /37000  | 31000/ 22400   | 42000/ 31200   | 53500/ 37000  |
| Power Input (KW)                          | <b>LOCATED ON UNIT NAMEPLATE</b> |                |               |                |                |               |
| (Low Temp.) BTUH (High/Low)               | 19200 /12000                     | 23200 /17000   | 34000/19000   | 19200 /12000   | 23200 /17000   | 34000 /19000  |
| Power Input (KW)                          | <b>LOCATED ON UNIT NAMEPLATE</b> |                |               |                |                |               |
| HSPF (BTUH/Watt-Hr)                       | 8.3                              | 8.5            | 8.3           | 8.3            | 8.5            | 8.3           |
| <b>POWER CONN. — V/Ph/Hz</b>              | 208-230/3/60                     |                |               | 460/3/60       |                |               |
| Min. Brch. Cir. Ampacity <sup>(d)</sup>   | <b>LOCATED ON UNIT NAMEPLATE</b> |                |               |                |                |               |
| Fuse Size — Max. (amps)                   | <b>LOCATED ON UNIT NAMEPLATE</b> |                |               |                |                |               |
| Fuse Size — Recmd. (amps)                 | <b>LOCATED ON UNIT NAMEPLATE</b> |                |               |                |                |               |
| <b>COMPRESSOR</b>                         | 2 STAGE SCROLL                   |                |               |                |                |               |
| VOLTS/PH/HZ                               | 208-230/3/60                     |                |               | 460/3/60       |                |               |
| R.L. Amps — L.R. Amps                     | <b>LOCATED ON UNIT NAMEPLATE</b> |                |               |                |                |               |
| <b>OUTDOOR COIL — TYPE</b>                | SPINE FIN                        |                |               |                |                |               |
| Rows/F.P.I                                | 2 / 24                           |                |               |                |                |               |
| Face Area (sq. ft.)                       | 15.49                            | 23.57          | 15.49         | 23.57          | 15.49          | 23.57         |
| 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.)                       | 3.5                              | 5.0            | 3.54          | 5.0            | 3.5            | 5.0           |
| Tube Size (in.)                           | 3/8                              |                |               |                |                |               |
| Refrigeration Control                     | EXPANSION VALVE                  |                |               |                |                |               |
| Drain Conn. Size (in.)                    | 3/4 FEMALE NPT                   |                |               |                |                |               |
| <b>OUTDOOR FAN — TYPE</b>                 | PROPELLER                        |                |               |                |                |               |
| DIA. (IN.)                                | 23.4                             | 28.2           | 23.4          | 28.2           | 23.4           | 28.2          |
| DRIVE/NO. SPEEDS                          | DIRECT / 1                       |                |               |                |                |               |
| CFM @ 0.0 in. w.g. <sup>(e)</sup>         | 3020                             | 4220           | 4700          | 3020           | 4220           | 4700          |
| Motor — HP/R.P.M                          | 1/6 /830                         |                | 1/4 /830      | 1/6 /830       |                | 1/4 /830      |
| Volts/Ph/Hz                               | 208-230/1/60                     |                |               | 460/1/60       |                | 208-230/1/60  |
| F.L. Amps/L.R Amps                        | <b>LOCATED ON UNIT NAMEPLATE</b> |                |               |                |                |               |
| <b>INDOOR FAN — TYPE</b>                  | CENTRIFUGAL                      |                |               |                |                |               |
| Dia. x Width (in.)                        | 10x10                            |                | 11x10         | 10x10          |                | 11x10         |
| Drive/No. Speeds                          | DIRECT / VARIABLE                |                |               |                |                |               |
| CFM @ 0.0 in. w.g. <sup>(f)</sup>         | SEE FAN PERFORMANCE TABLE        |                |               |                |                |               |
| Motor — HP / R.P.M.                       | 3/4 /VARIABLE                    | 1/VARIABLE     |               | 1/2 / VARIABLE | 3/4 / VARIABLE | 1 / VARIABLE  |
| Volts/Ph/Hz                               | 208-230/1/60                     |                |               | 460/1/60       |                | 230/1/60      |
| F.L. Amps                                 | <b>LOCATED ON UNIT NAMEPLATE</b> |                |               |                |                |               |
| <b>FILTER / FURNISHED</b>                 | NO                               |                |               |                |                |               |
| Type Recommended                          | THROWAWAY                        |                |               |                |                |               |
| Recmd. Face Area (sq. ft) <sup>(g)</sup>  | 4.0                              | 5.3            | 4.0           | 5.3            | 4.0            | 5.3           |
| <b>REFRIGERANT</b>                        | R-410A                           |                |               |                |                |               |
| Charge (lbs.)                             | <b>LOCATED ON UNIT NAMEPLATE</b> |                |               |                |                |               |
| Subcooling                                | 8° F                             | 10° F          | 8° F          | 10° F          | 8° F           | 10° F         |

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

(b) Rated in accordance with D.O.E. test procedure.

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

(d) Calculated in accordance with currently prevailing Nat'l Electrical Code.

(e) Standard Air — Dry Coil — Outdoor.

(f) Standard Air — Dry Coil — Indoor

(g) 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.



# Indoor Fan Performance

| <b>4WCZ6036</b>             |      | <b>EXTERNAL STATIC PRESSURE (IN.WG) Cooling CFM Horizontal [Downflow]</b> |                |                |                |                |                |                |                |                |     |     |
|-----------------------------|------|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|-----|
| <b>Motor Speed</b>          |      | 0.0   | 0.1            | 0.2            | 0.3            | 0.4            | 0.5            | 0.6            | 0.7            | 0.8            | 0.9 | 1.0 |
| 350 CFM /<br>Ton<br>Setting | Low  | -   | 741<br>[722]   | 743<br>[745]   | 744<br>[747]   | 744<br>[744]   | 743<br>[742]   | 742<br>[743]   | 740<br>[744]   | 737<br>[736]   | -   | -   |
|                             | High | -   | 1059<br>[1032] | 1062<br>[1064] | 1063<br>[1066] | 1063<br>[1063] | 1062<br>[1060] | 1059<br>[1062] | 1057<br>[1063] | 1053<br>[1052] | -   | -   |
| 400 CFM /<br>Ton<br>Setting | Low  | -   | 825<br>[830]   | 837<br>[841]   | 843<br>[842]   | 844<br>[840]   | 844<br>[839]   | 842<br>[836]   | 839<br>[836]   | 836<br>[828]   | -   | -   |
|                             | High | -   | 1179<br>[1185] | 1196<br>[1201] | 1204<br>[1203] | 1206<br>[1201] | 1205<br>[1196] | 1203<br>[1197] | 1199<br>[1194] | 1194<br>[1184] | -   | -   |
| 450 CFM /<br>Ton<br>Setting | Low  | -   | 975<br>[976]   | 964<br>[965]   | 959<br>[964]   | 957<br>[963]   | 953<br>[956]   | 949<br>[946]   | 945<br>[941]   | 945<br>[949]   | -   | -   |
|                             | High | -   | 1394<br>[1397] | 1377<br>[1376] | 1371<br>[1377] | 1367<br>[1376] | 1362<br>[1366] | 1355<br>[1354] | 1350<br>[1344] | 1350<br>[1356] | -   | -   |

| <b>4WCZ6048</b>             |      | <b>EXTERNAL STATIC PRESSURE (IN.WG) Cooling CFM Horizontal [Downflow]</b> |                |                |                |                |                |                |                |                |     |     |
|-----------------------------|------|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|-----|
| <b>Motor Speed</b>          |      | 0.0   | 0.1            | 0.2            | 0.3            | 0.4            | 0.5            | 0.6            | 0.7            | 0.8            | 0.9 | 1.0 |
| 350 CFM /<br>Ton<br>Setting | Low  | -   | 954<br>[948]   | 973<br>[977]   | 977<br>[977]   | 973<br>[970]   | 966<br>[969]   | 957<br>[975]   | 950<br>[979]   | 944<br>[962]   | -   | -   |
|                             | High | -   | 1363<br>[1354] | 1390<br>[1396] | 1396<br>[1396] | 1390<br>[1386] | 1379<br>[1384] | 1368<br>[1393] | 1358<br>[1399] | 1349<br>[1375] | -   | -   |
| 400 CFM /<br>Ton<br>Setting | Low  | -   | 1121<br>[1102] | 1106<br>[1106] | 1104<br>[1109] | 1106<br>[1113] | 1108<br>[1116] | 1108<br>[1119] | 1104<br>[1120] | 1097<br>[1118] | -   | -   |
|                             | High | -   | 1601<br>[1574] | 1580<br>[1580] | 1577<br>[1585] | 1580<br>[1589] | 1583<br>[1594] | 1583<br>[1599] | 1577<br>[1601] | 1567<br>[1597] | -   | -   |
| 450 CFM /<br>Ton<br>Setting | Low  | -   | 1223<br>[1295] | 1254<br>[1277] | 1268<br>[1272] | 1271<br>[1273] | 1268<br>[1274] | 1264<br>[1273] | 1261<br>[1272] | 1258<br>[1273] | -   | -   |
|                             | High | -   | 1747<br>[1851] | 1792<br>[1824] | 1811<br>[1817] | 1816<br>[1818] | 1812<br>[1820] | 1806<br>[1819] | 1801<br>[1817] | 1797<br>[1819] | -   | -   |

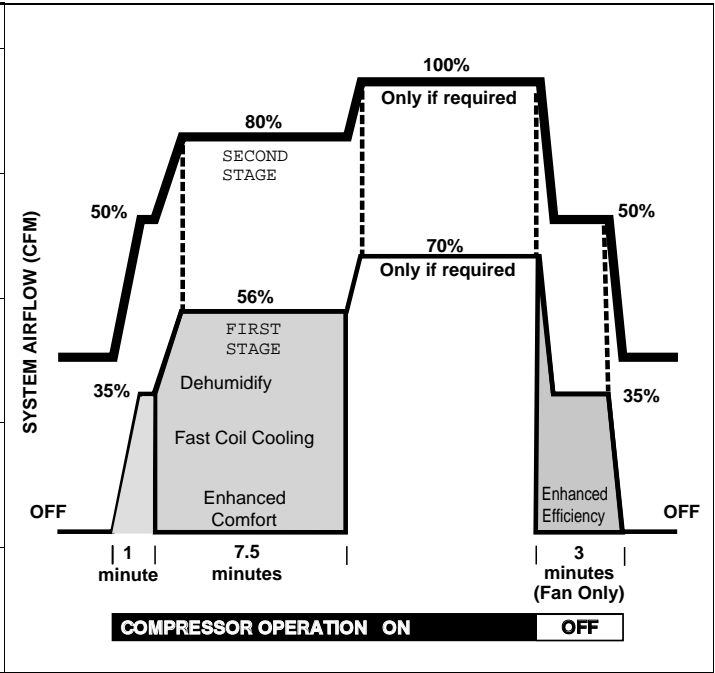
| <b>4WCZ6060</b>             |      | <b>EXTERNAL STATIC PRESSURE (IN.WG) Cooling CFM Horizontal [Downflow]</b> |                |                |                |                |                |                |                |                |     |     |
|-----------------------------|------|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|-----|
| <b>Motor Speed</b>          |      | 0.0   | 0.1            | 0.2            | 0.3            | 0.4            | 0.5            | 0.6            | 0.7            | 0.8            | 0.9 | 1.0 |
| 350 CFM /<br>Ton<br>Setting | Low  | -   | 1163<br>[1259] | 1238<br>[1219] | 1259<br>[1208] | 1256<br>[1207] | 1246<br>[1206] | 1240<br>[1199] | 1237<br>[1188] | 1230<br>[1185] | -   | -   |
|                             | High | -   | 1662<br>[1799] | 1768<br>[1742] | 1799<br>[1726] | 1794<br>[1725] | 1780<br>[1723] | 1771<br>[1712] | 1767<br>[1698] | 1757<br>[1692] | -   | -   |
| 400 CFM /<br>Ton<br>Setting | Low  | -   | 1443<br>[1410] | 1427<br>[1393] | 1422<br>[1386] | 1422<br>[1384] | 1423<br>[1383] | 1422<br>[1380] | 1418<br>[1368] | 1410<br>[1344] | -   | -   |
|                             | High | -   | 2062<br>[2015] | 2038<br>[1990] | 2031<br>[1980] | 2032<br>[1977] | 2034<br>[1976] | 2032<br>[1971] | 2025<br>[1955] | 2015<br>[1920] | -   | -   |

| <b>Airflow with Auxiliary Heat (CFM)</b> |         |                  |                        |                 |                 |
|--|---------|------------------|------------------------|-----------------|-----------------|
| <b>SWITCH SETTINGS</b>                   |         | <b>SELECTION</b> | <b>NOMINAL AIRFLOW</b> |                 |                 |
|  |         |                  | <b>4WCZ6036</b>        | <b>4WCZ6048</b> | <b>4WCZ6060</b> |
| 7 - OFF                                  | 8 - OFF | LOW              | 1050 CFM               | 1400 CFM        | 1750 CFM        |
| 7 - ON                                   | 8 - OFF | HIGH             | 1200 CFM               | 1600 CFM        | 2000 CFM        |
| 7 - OFF                                  | 8 - ON  | HIGH             | 1200 CFM               | 1600 CFM        | 2000 CFM        |
| 7 - ON                                   | 8 - ON  | HIGH             | 1200 CFM               | 1600 CFM        | 2000 CFM        |



# Indoor Fan Performance

| Cooling Off - Delay Options |         |            |                 |
|-----------------------------|---------|------------|-----------------|
| SWITCH SETTNCS              |         | DELAY      | NOMINAL AIRFLOW |
| 5 - OFF                     | 6 - OFF | NONE       | 100%            |
| 5 - ON                      | 6 - OFF | 45 SECONDS | 100%            |
| 5 - OFF                     | 6 - ON  | 90 SECONDS | 50%             |
| 5 - ON                      | 6 - ON  | (a)        | 50 - 100%       |



(a) This ENHANCED MODE selection provides a ramping up and ramping down of the blower speed to provide improved comfort, quietness, and potential energy savings. The graph below show the ramping process.



# Wiring Diagrams

Figure 1. 4WCZ6036B Three Phase

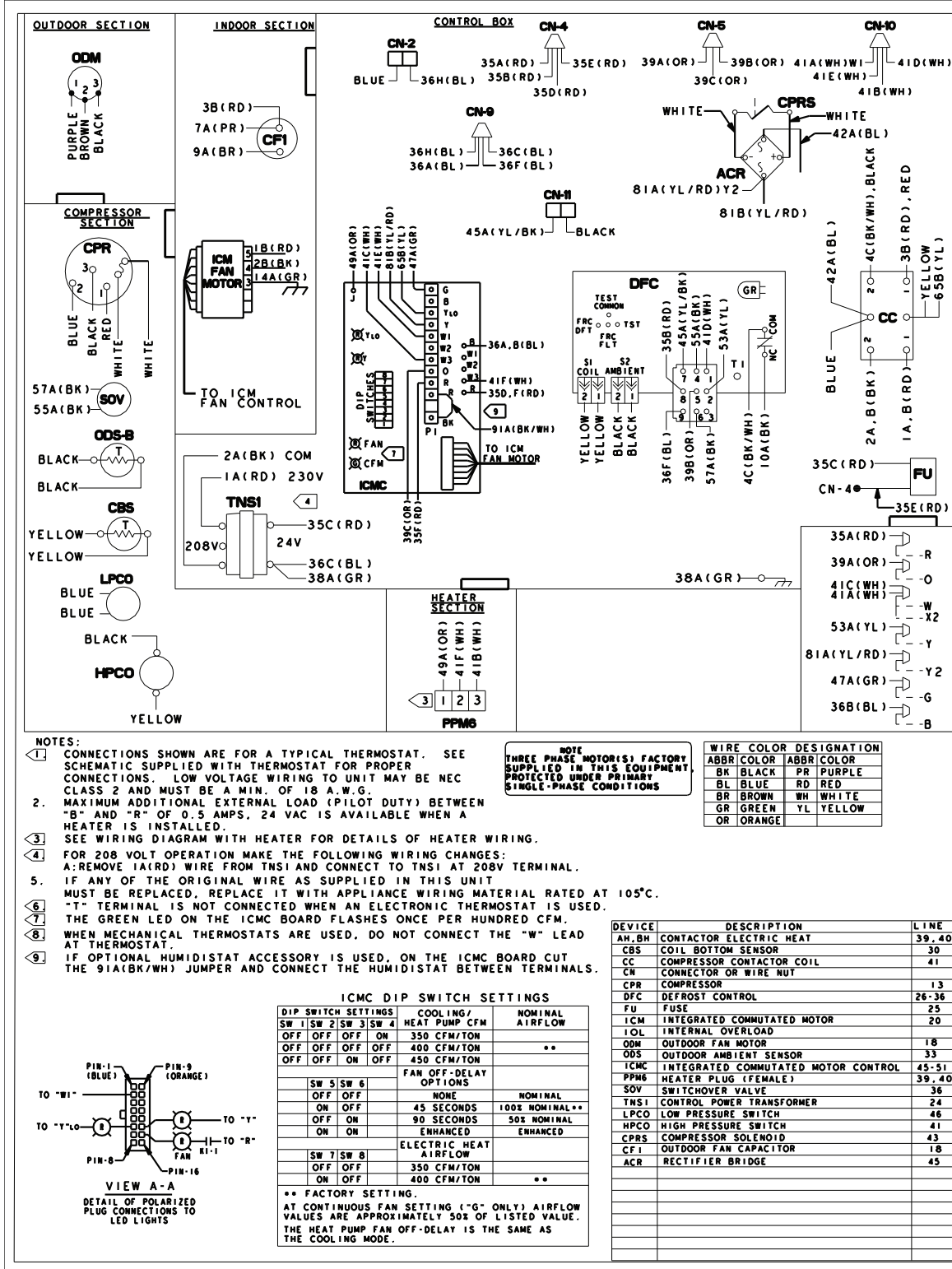
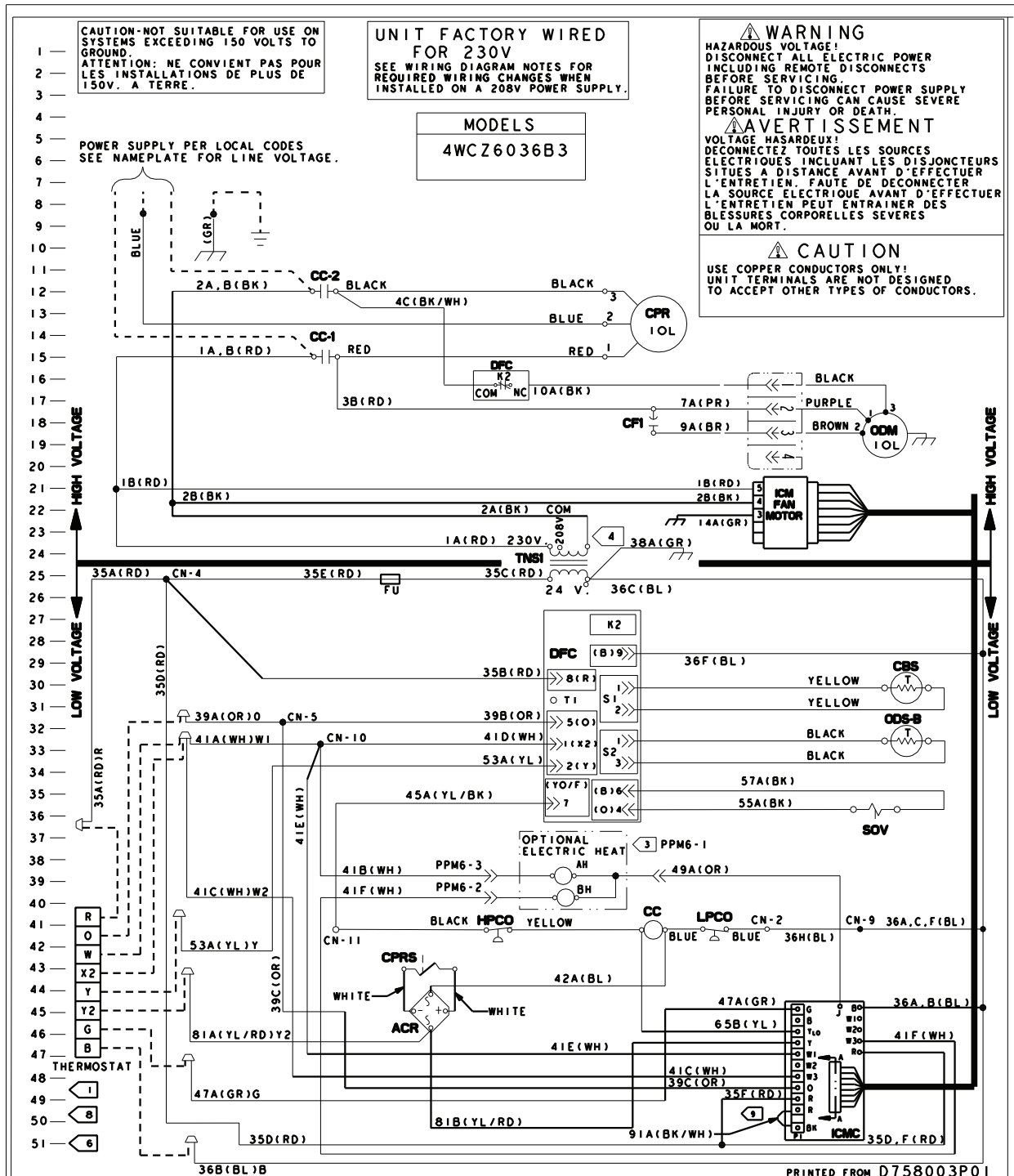


Figure 2. 4WCZ6036B Three Phase



MATERIAL:  
FLEXCON WHITE VINYL (2 MIL THICK) WITH PRESSURE SENSITIVE ADHESIVE BACKING AND RELEASE PAPER. ADHESIVE FOR OUTDOOR APPLICATION ON PAINTED OR GALVANIZED METAL.  
SIZE: 10" X 6 1/2"  
ALL PRINTING TO BE BLACK.  
TRANE CO. TO FURNISH PRINTER WITH ELECTRONIC FILE OF THIS DRAWING.  
WIRING DIAGRAMS TO BE SUPPLIED AS INDIVIDUAL SHEETS PER SIZE ABOVE.

Figure 3. 4WCZ6036B Four Phase

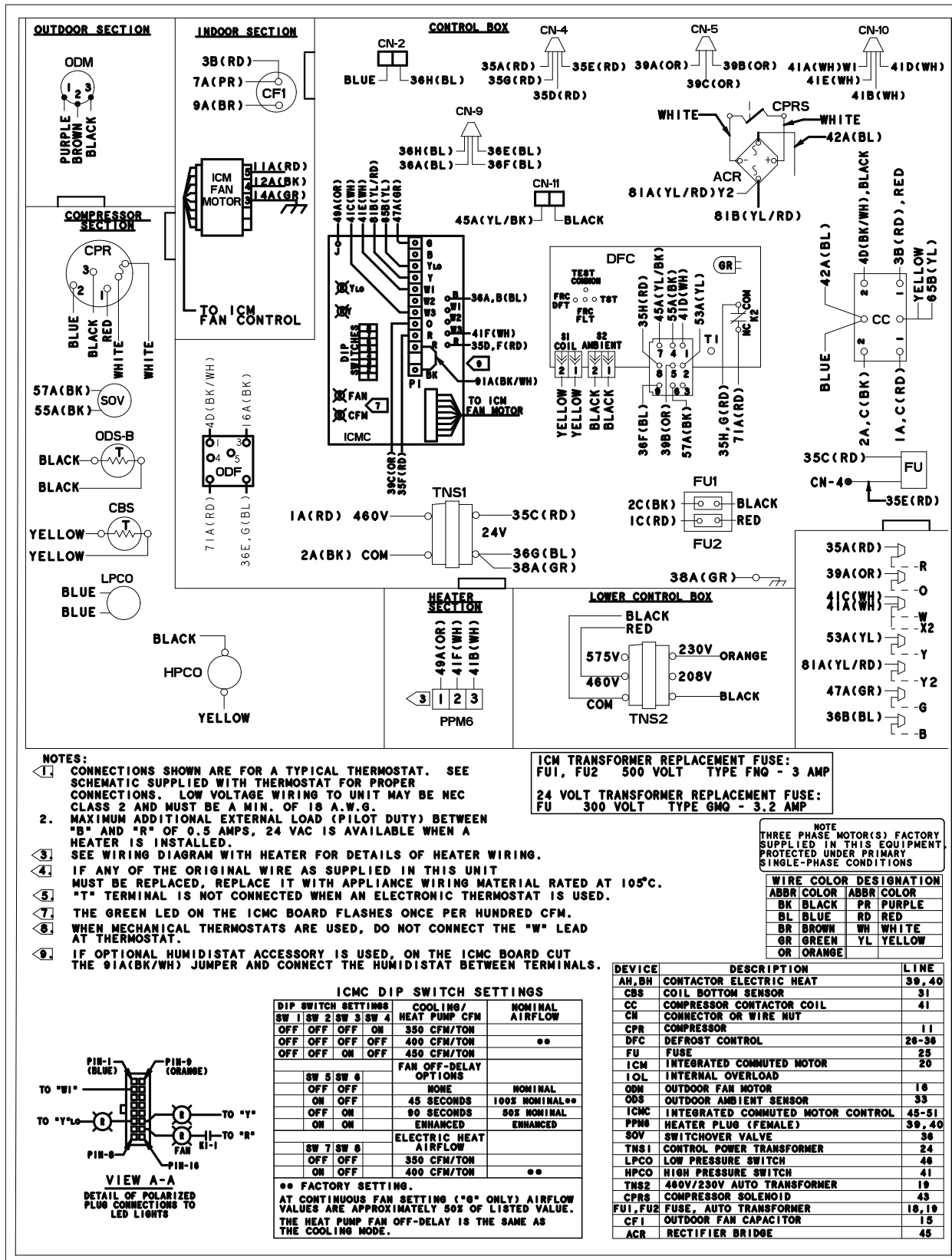
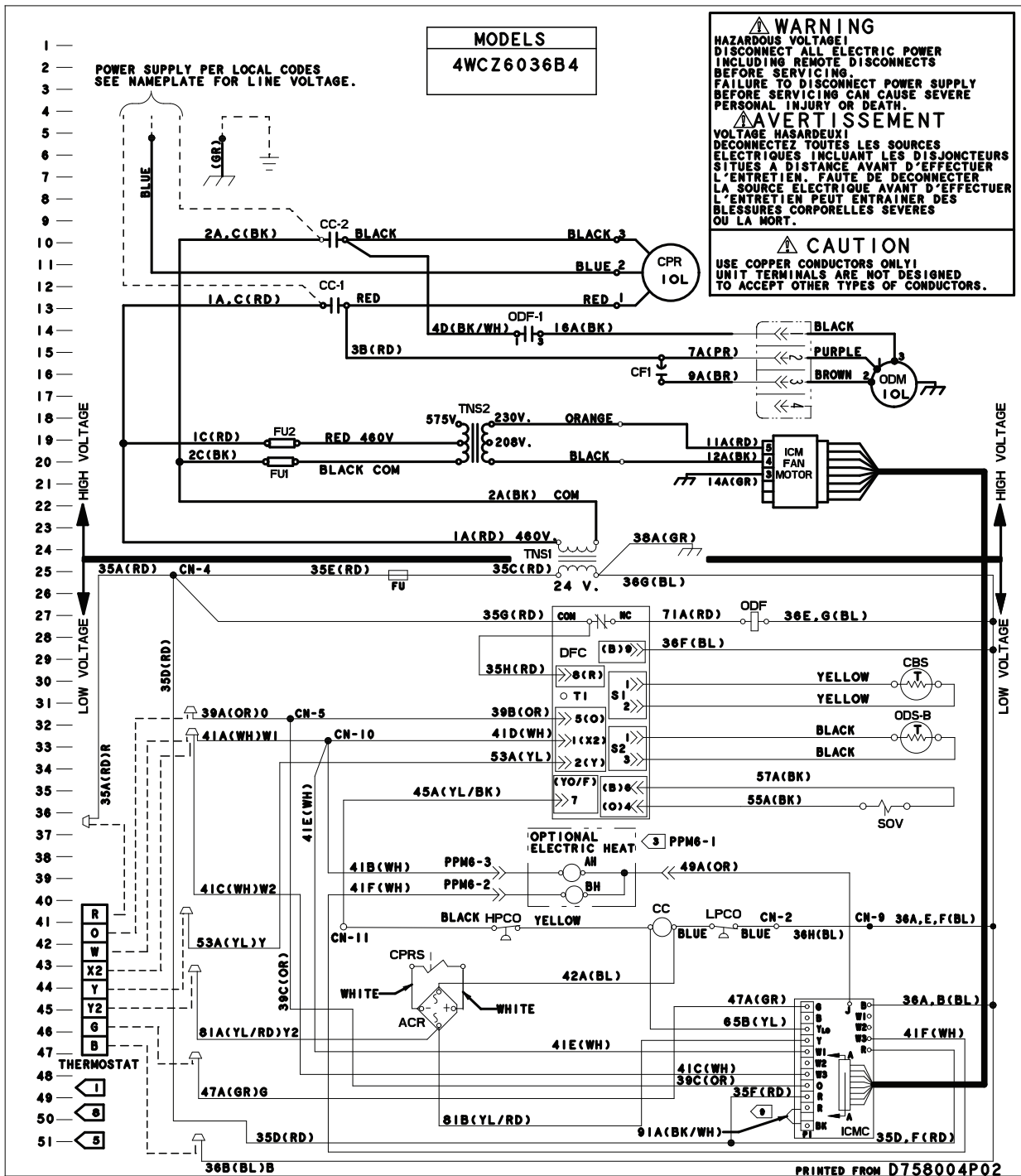
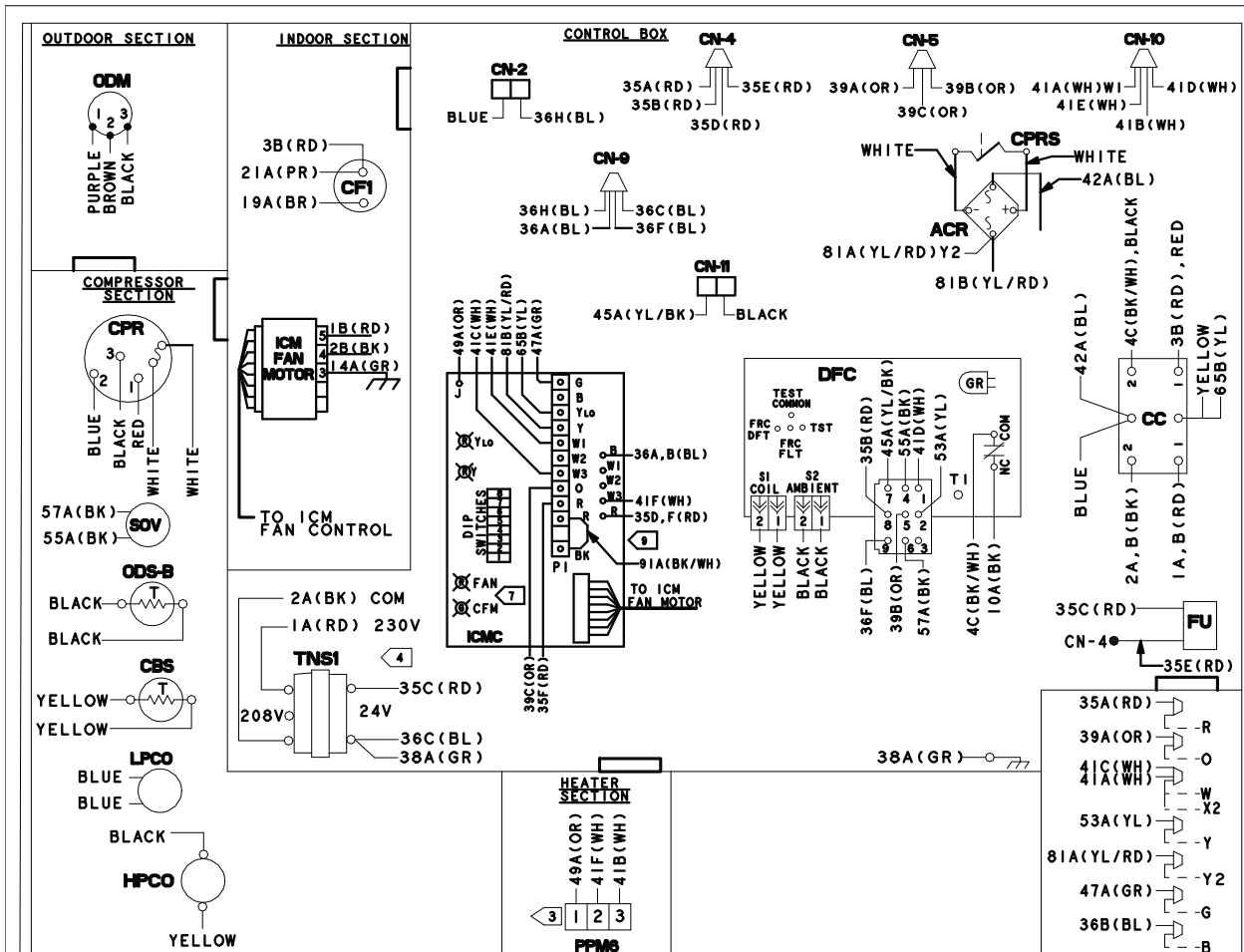


Figure 4. 4WCZ6036B Four Phase



MATERIAL:  
 FLEXCON WHITE VINYL (2 MIL THICK) WITH PRESSURE SENSITIVE ADHESIVE BACKING AND RELEASE PAPER. ADHESIVE FOR OUTDOOR APPLICATION ON PAINTED OR GALVANIZED METAL.  
 SIZE: 10" X 6 1/2"  
 ALL PRINTING TO BE BLACK.  
 TRANE CO. TO FURNISH PRINTER WITH ELECTRONIC FILE OF THIS DRAWING.  
 WIRING DIAGRAMS TO BE SUPPLIED AS INDIVIDUAL SHEETS PER SIZE ABOVE.

Figure 5. 4WCZ6048B, 4WCZ606B Three Phase

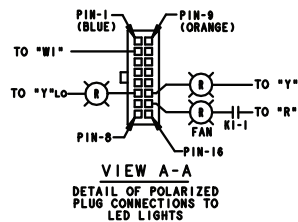


NOTES:

1. CONNECTIONS SHOWN ARE FOR A TYPICAL THERMOSTAT. SEE SCHEMATIC SUPPLIED WITH THERMOSTAT FOR PROPER CONNECTIONS. LOW VOLTAGE WIRING TO UNIT MAY BE NEC CLASS 2 AND MUST BE A MIN. OF 18 A.W.G.
2. MAXIMUM ADDITIONAL EXTERNAL LOAD (PILOT DUTY) BETWEEN "B" AND "R" OF 0.5 AMPS, 24 VAC IS AVAILABLE WHEN A HEATER IS INSTALLED.
3. SEE WIRING DIAGRAM WITH HEATER FOR DETAILS OF HEATER WIRING.
4. FOR 208 VOLT OPERATION MAKE THE FOLLOWING WIRING CHANGES: A: REMOVE 1A(RD) WIRE FROM TNS1 AND CONNECT TO TNS1 AT 208V TERMINAL.
5. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED IN THIS UNIT MUST BE REPLACED, REPLACE IT WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
6. "T" TERMINAL IS NOT CONNECTED WHEN AN ELECTRONIC THERMOSTAT IS USED.
7. THE GREEN LED ON THE ICNC BOARD FLASHES ONCE PER HUNDRED CFM.
8. WHEN MECHANICAL THERMOSTATS ARE USED, DO NOT CONNECT THE "W" LEAD AT THE THERMOSTAT.
9. IF OPTIONAL HUMIDISTAT ACCESSORY IS USED, ON THE ICNC BOARD CUT THE 91A(BK/WH) JUMPER AND CONNECT THE HUMIDISTAT BETWEEN TERMINALS.

NOTE  
THREE PHASE MOTOR(S) FACTORY SUPPLIED IN THIS EQUIPMENT PROTECTED UNDER PRIMARY SINGLE-PHASE CONDITIONS

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

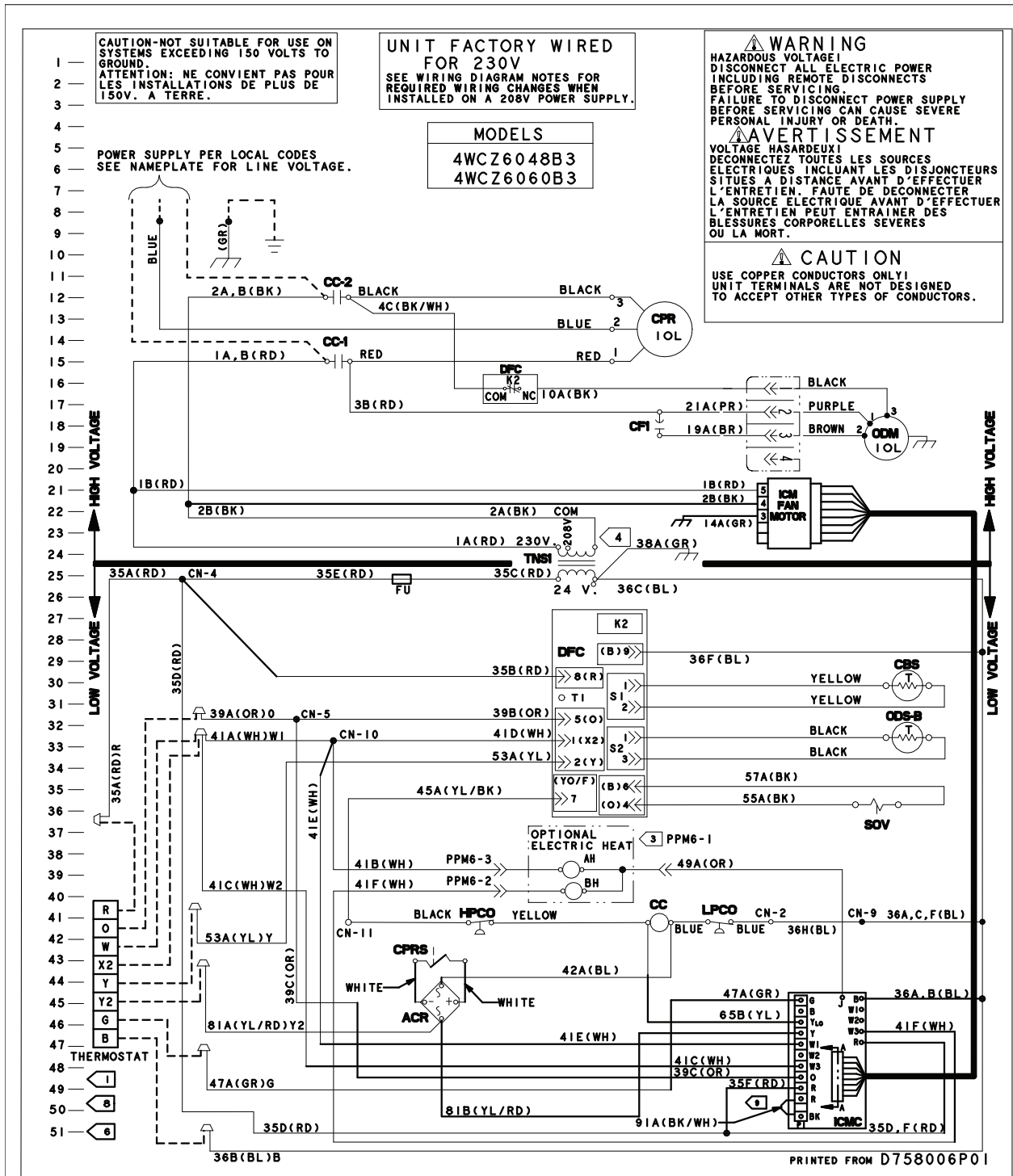


| DIP SWITCH SETTINGS   |      |      |      | COOLING/ HEAT PUMP CFM | NOMINAL AIRFLOW |
|-----------------------|------|------|------|------------------------|-----------------|
| SW 1                  | SW 2 | SW 3 | SW 4 |                        |                 |
| OFF                   | OFF  | OFF  | ON   | 350 CFM/TON            |                 |
| OFF                   | OFF  | OFF  | OFF  | 400 CFM/TON            | **              |
| OFF                   | OFF  | ON   | OFF  | 450 CFM/TON            |                 |
| FAN OFF-DELAY OPTIONS |      |      |      |                        |                 |
| SW 5                  | SW 6 |      |      |                        |                 |
| OFF                   | OFF  |      |      | NONE                   | NOMINAL         |
| ON                    | OFF  |      |      | 45 SECONDS             | 100% NOMINAL**  |
| OFF                   | ON   |      |      | 90 SECONDS             | 50% NOMINAL     |
| ON                    | ON   |      |      | ENHANCED               | ENHANCED        |
| ELECTRIC HEAT AIRFLOW |      |      |      |                        |                 |
| SW 7                  | SW 8 |      |      |                        |                 |
| OFF                   | OFF  |      |      | 350 CFM/TON            |                 |
| ON                    | OFF  |      |      | 400 CFM/TON            | **              |

\*\* FACTORY SETTING.  
AT CONTINUOUS FAN SETTING (\*G ONLY) AIRFLOW VALUES ARE APPROXIMATELY 50% OF LISTED VALUE. THE HEAT PUMP FAN OFF-DELAY IS THE SAME AS THE COOLING MODE.

| DEVICE | DESCRIPTION                         | LINE   |
|--------|-------------------------------------|--------|
| AH, BH | CONTACTOR ELECTRIC HEAT             | 39, 40 |
| CBS    | COIL BOTTOM SENSOR                  | 30     |
| CC     | COMPRESSOR CONTACTOR COIL           | 41     |
| CN     | CONNECTOR OR WIRE NUT               |        |
| CPR    | COMPRESSOR                          | 13     |
| DFC    | DEFROST CONTROL                     | 26-36  |
| FU     | FUSE                                | 25     |
| ICM    | INTEGRATED COMMUTATED MOTOR         | 20     |
| IOL    | INTERNAL OVERLOAD                   |        |
| ODM    | OUTDOOR FAN MOTOR                   | 18     |
| ODS    | OUTDOOR AMBIENT SENSOR              | 33     |
| ICMC   | INTEGRATED COMMUTATED MOTOR CONTROL | 45-51  |
| PPM6   | HEATER PLUG (FEMALE)                | 39, 40 |
| SOV    | SWITCHOVER VALVE                    | 36     |
| TNS1   | CONTROL POWER TRANSFORMER           | 24     |
| LPCO   | LOW PRESSURE SWITCH                 | 46     |
| HPCO   | HIGH PRESSURE SWITCH                | 41     |
| CPRS   | COMPRESSOR SOLENOID                 | 43     |
| CF1    | OUTDOOR FAN CAPACITOR               | 18     |
| ACR    | RECTIFIER BRIDGE                    | 45     |

Figure 6. 4WCZ6048B, 4WCZ6060B Three Phase



MATERIAL:  
FLEXCON WHITE VINYL (2 MIL THICK) WITH PRESSURE SENSITIVE ADHESIVE BACKING AND RELEASE PAPER. ADHESIVE FOR OUTDOOR APPLICATION ON PAINTED OR GALVANIZED METAL.  
SIZE: 10" X 6 1/2"  
ALL PRINTING TO BE BLACK.  
TRANE CO. TO FURNISH PRINTER WITH ELECTRONIC FILE OF THIS DRAWING.  
WIRING DIAGRAMS TO BE SUPPLIED AS INDIVIDUAL SHEETS PER SIZE ABOVE.

Figure 7. 4WCZ6048B, 4WCZ6060B Four Phase

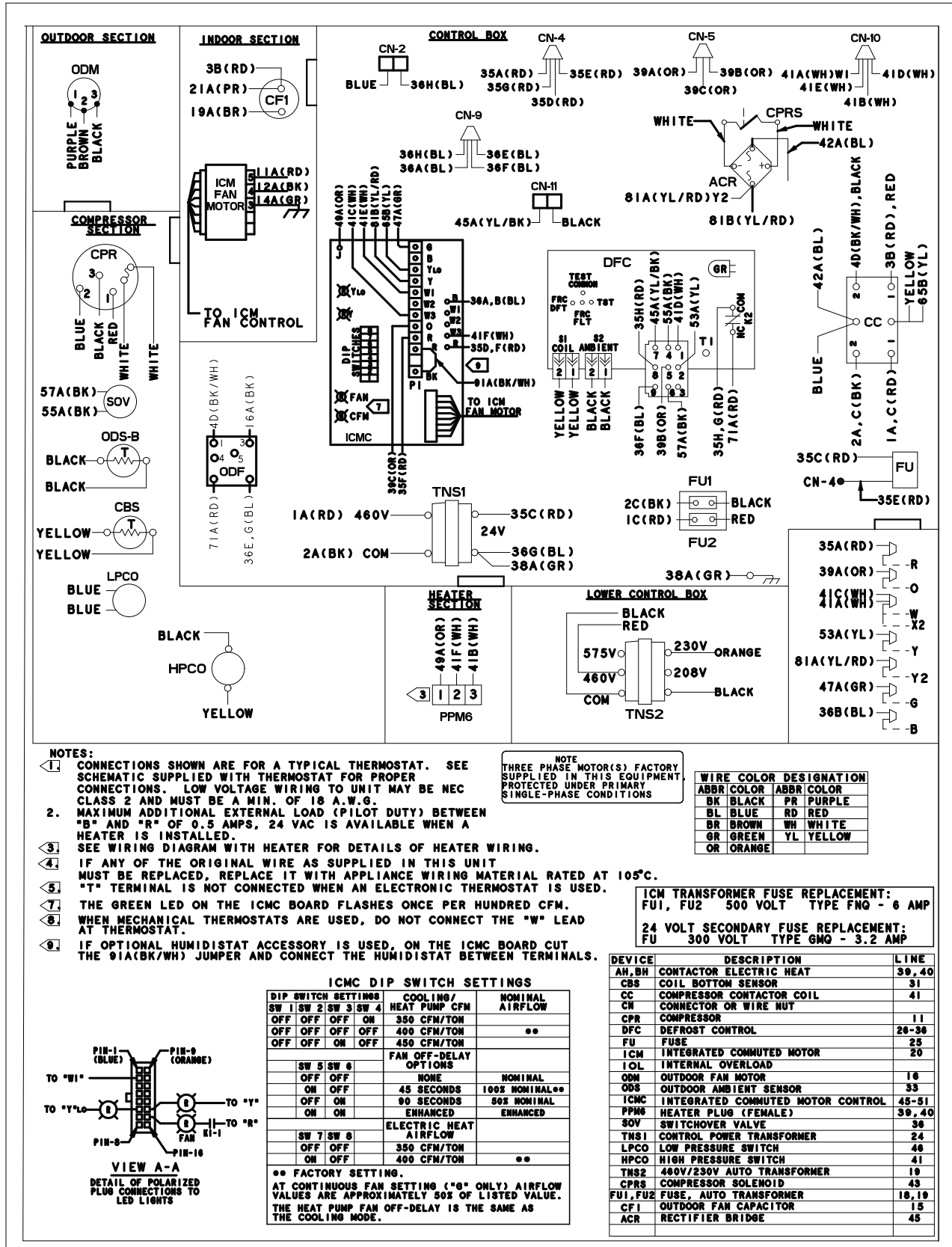
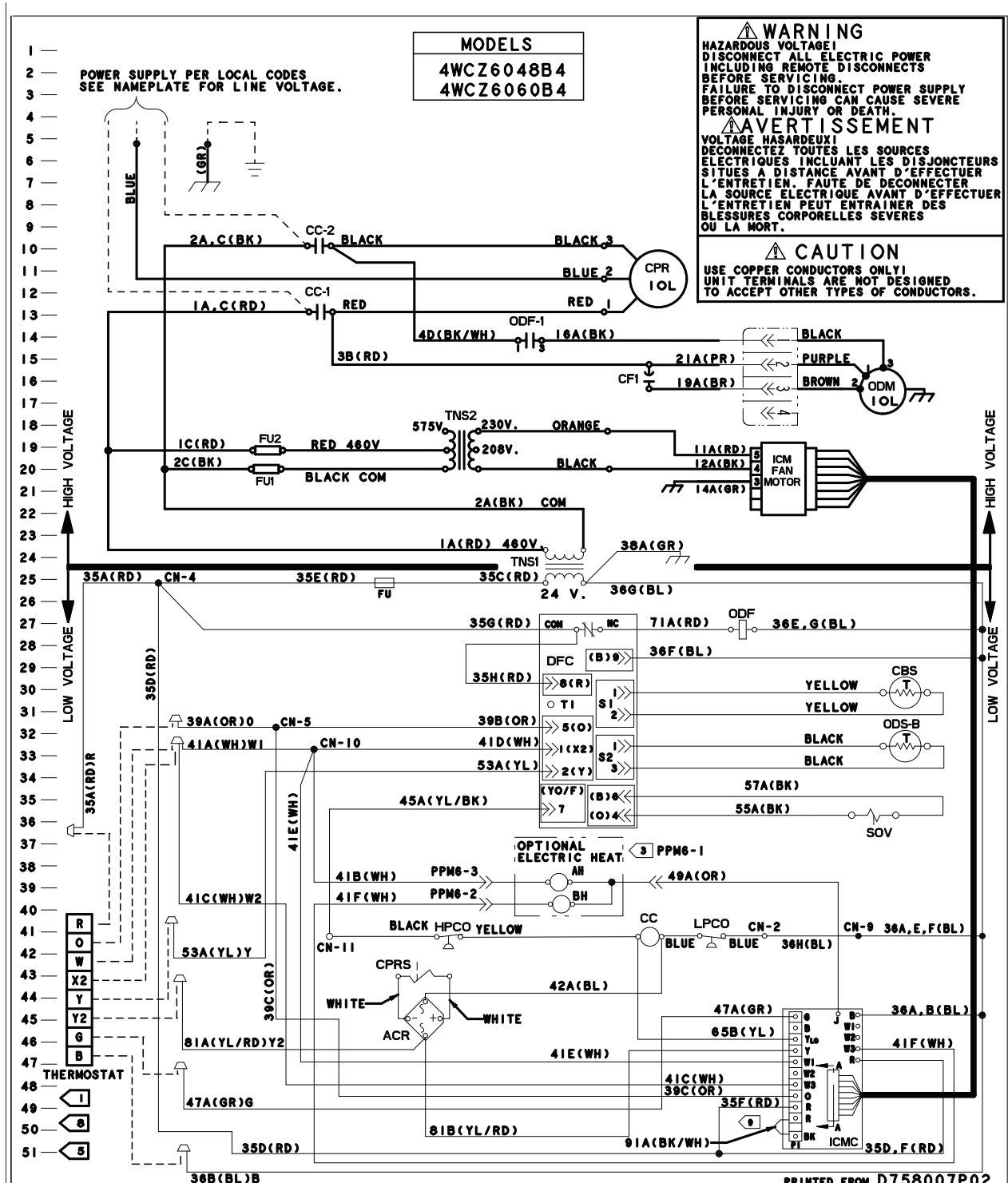


Figure 8. 4WCZ6048B, 4WCZ6060B Four Phase



MATERIAL:  
 FLEXCON WHITE VINYL (2 MIL THICK) WITH PRESSURE SENSITIVE ADHESIVE BACKING AND RELEASE PAPER. ADHESIVE FOR OUTDOOR APPLICATION ON PAINTED OR GALVANIZED METAL.  
 SIZE: 10" X 6 1/2"  
 ALL PRINTING TO BE BLACK.  
 TRANE CO. TO FURNISH PRINTER WITH ELECTRONIC FILE OF THIS DRAWING.  
 WIRING DIAGRAMS TO BE SUPPLIED AS INDIVIDUAL SHEETS PER SIZE ABOVE.

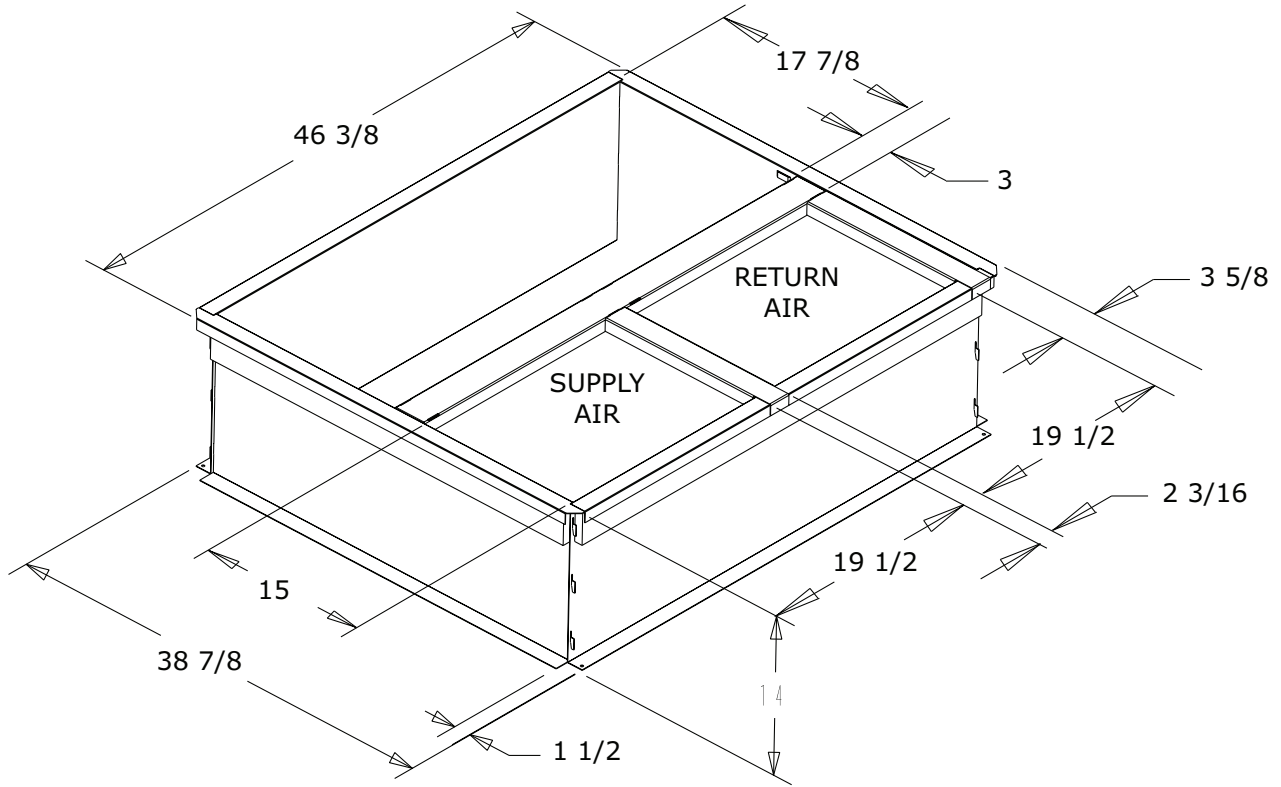




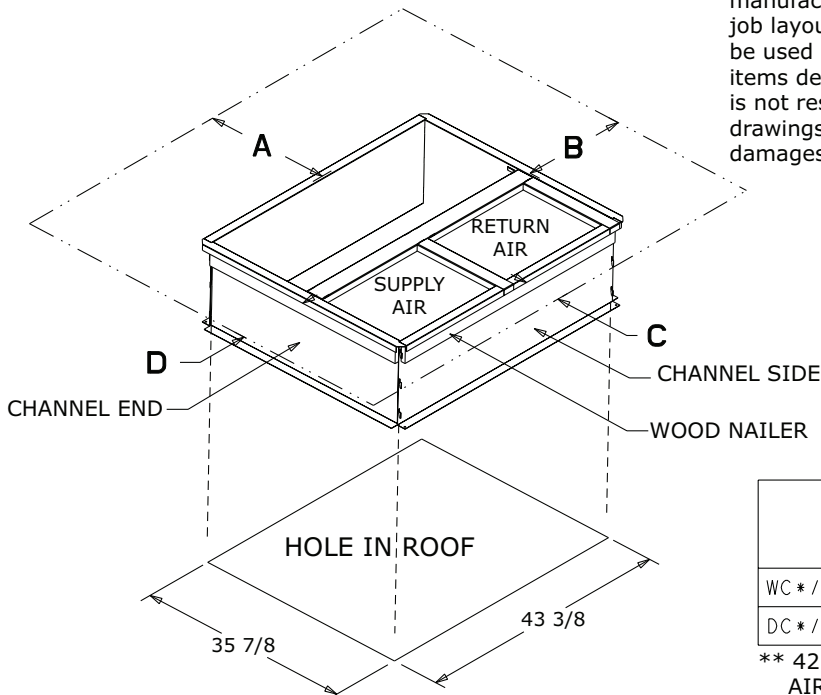
# Full Perimeter Roof Mounting Curb

Figure 9. 2.0 – 3.0 Ton Models

## BAYCURB050A 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 |

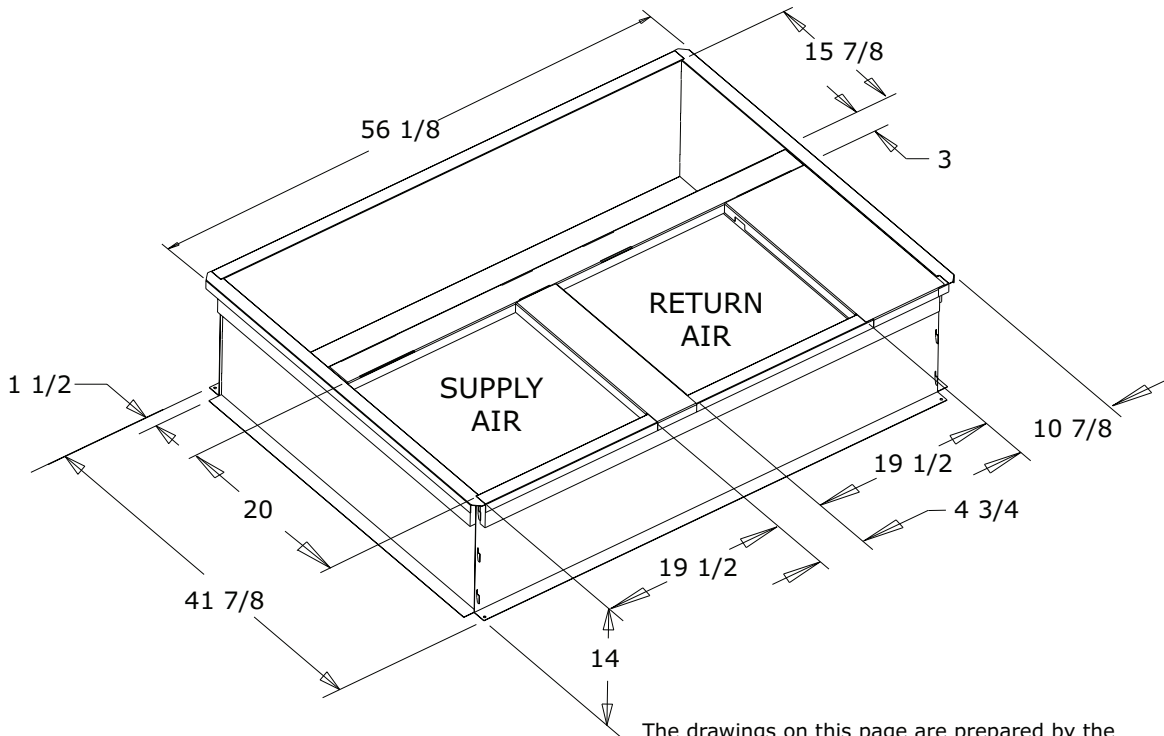
\*\* 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY



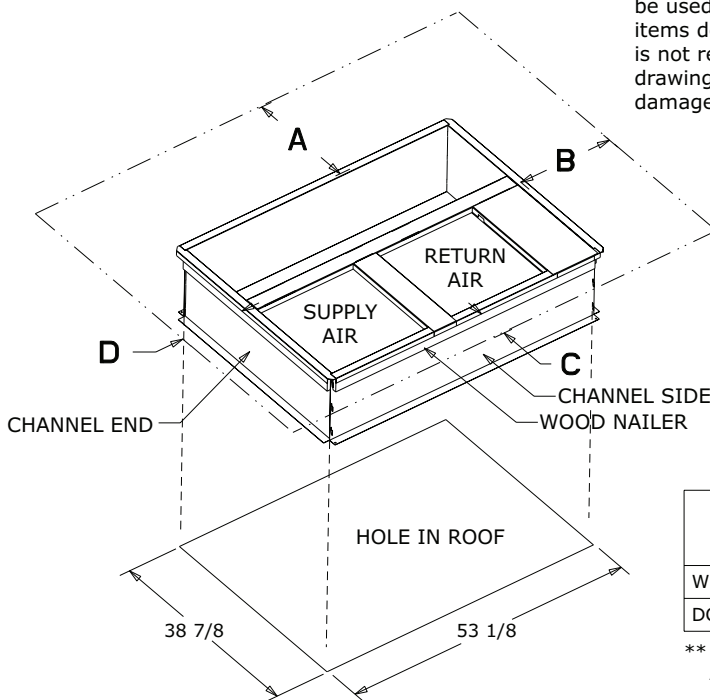
# Full Perimeter Roof Mounting Curb

Figure 10. 3.5 – 5.0 Ton Models

## BAYCURB051A Full Perimeter Roof Mounting Curb



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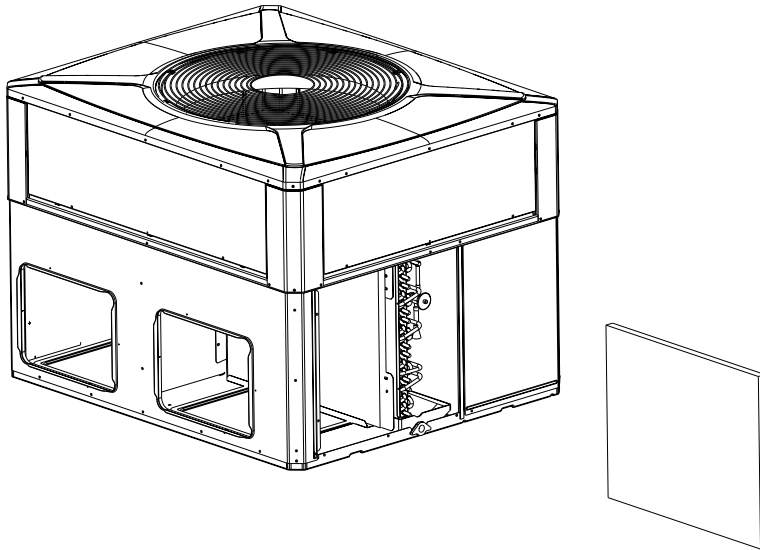


|         | SERVICE CLEARANCE DIMENSIONS |       |         |       |
|---------|------------------------------|-------|---------|-------|
|         | A                            | B     | C       | D     |
| WC*/TC* | 42.00                        | 36.00 | 12.00** | 24.00 |
| DC*/YC* | 42.00       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

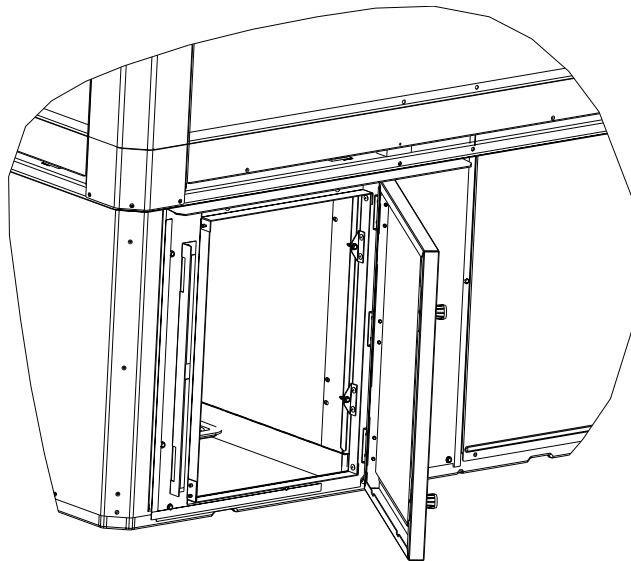
\*\* 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY

## Optional Equipment — Filter Rack

**Figure 11. BAYFLTR101 Filter Rack (2.0 – 3.0 Ton Models)  
BAYFLTR201 (3.5 – 5.0 Ton Models)  
(Mounts in Filter/Coil Section)**



**Figure 12. BAYACCDOR1A Hinged Filter Access Door (2.0 – 3.0 Ton Models)  
BAYACCDOR2A (3.5 – 5.0 Ton Models)  
Replaces Filter/Coil Access Panel**



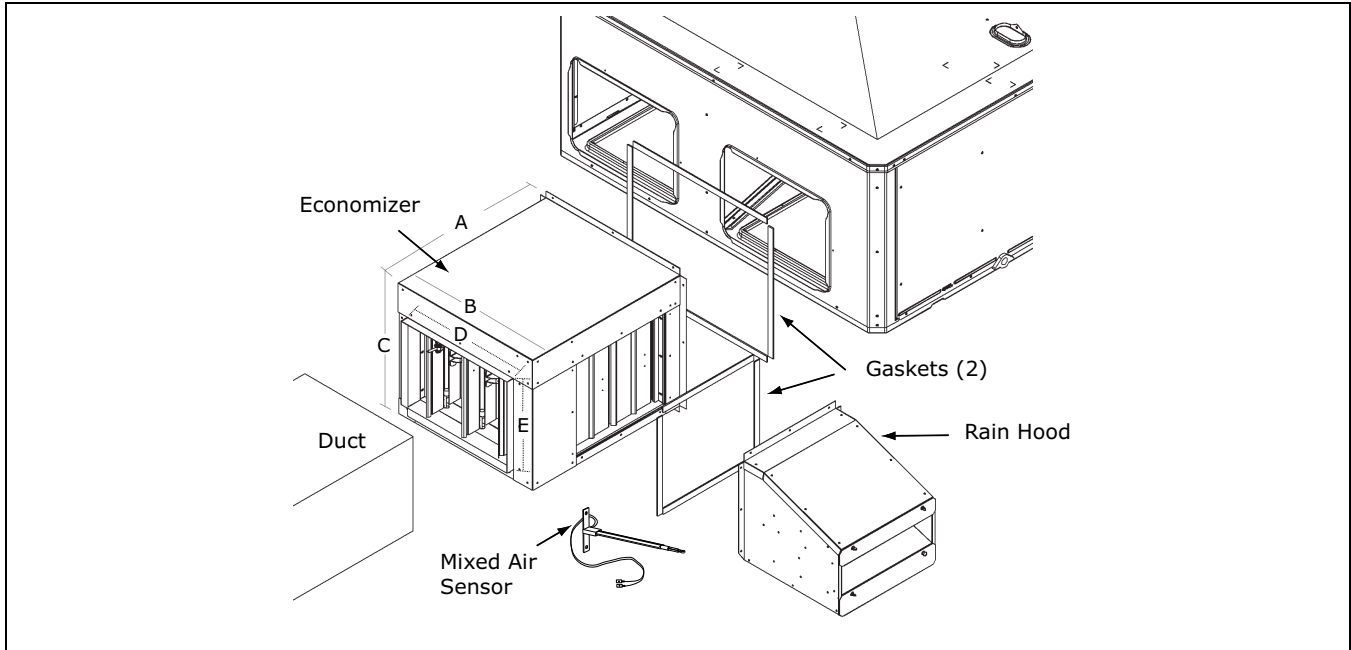
**Note:** The drawings on this page are prepared by the manufacturer in order to provide detail regarding job layout only. These drawings are not intended to be used as a basis to construct, build or modify the items depicted in the drawings. The manufacturer is not responsible for the unauthorized use of these drawings and expressly disclaims any liability for damages resulting from such unauthorized use.

# Optional Equipment – Economizer

**Table 1. BAYECON103, 104A Down Discharge Economizer and Rain Hood (Mounts Over Horizontal Return Air Opening)**

|  |                   |                                |
|--|-------------------|--------------------------------|
|  | <b>Economizer</b> | <b>Unit Application Models</b> |
|  | BAYECON103A       | 2.0 – 3.0 Ton Models           |
|  | BAYECON104A       | 3.5 – 5.0 Ton Models           |

**Table 2. BAYCON203, 204A Horizontal Economizer and Rain Hood**



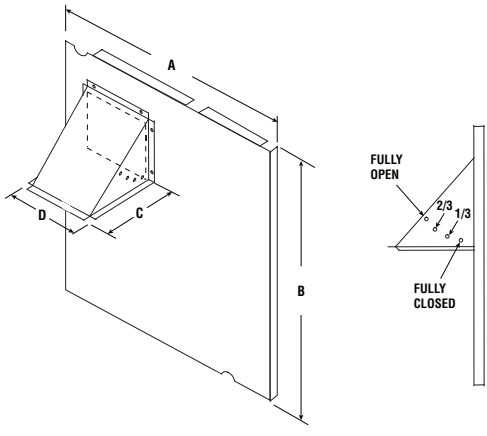
| Economizer  | Models        | A   | B         | C       | D         | E         | F       |
|-------------|---------------|-----|-----------|---------|-----------|-----------|---------|
| BAYECON203A | 2.0 – 3.0 Ton | 22" | 20"       | 16-7/8" | 15-11/16" | 11-11/16" | 15"     |
| BAYECON204A | 3.5 – 5.0 Ton | 26" | 22-21/32" | 19"     | 17-11/16" | 14-11/16" | 21-3/8" |

**Note:** The drawings on this page are prepared by the manufacturer in order to provide detail regarding job layout only. These drawings are not intended to be used as a basis to construct, build or modify the items depicted in the drawings. The manufacturer is not responsible for the unauthorized use of these drawings and expressly disclaims any liability for damages resulting from such unauthorized use.

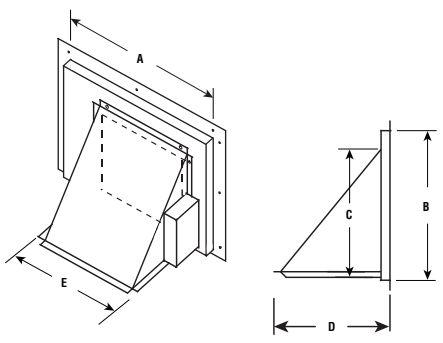


# Optional Equipment – Outside Air Damper

**Table 3. 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" |         |

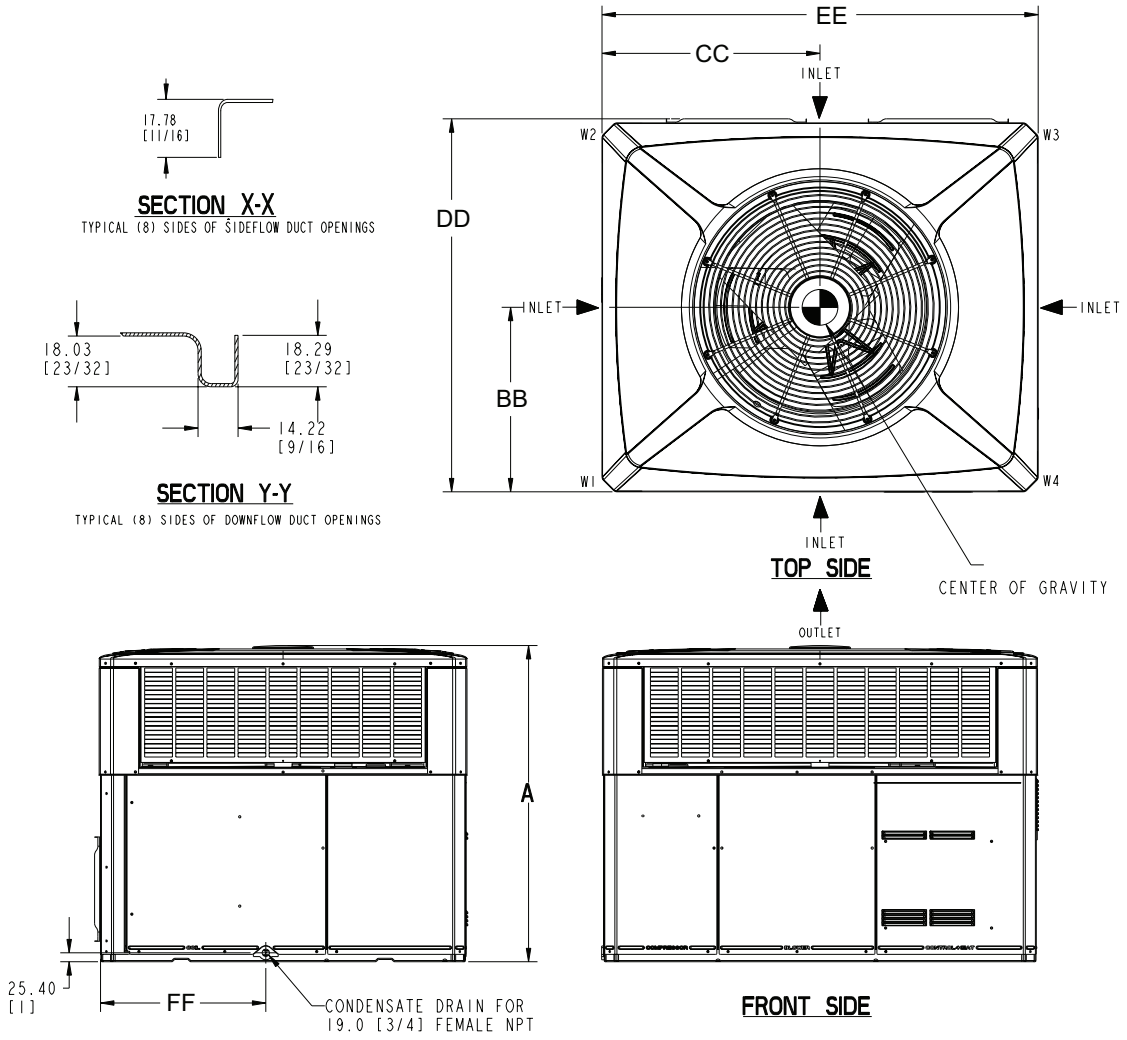
**Table 4. BAYDM-PR101 and 102A, 25% Motorized Outside Air Damper  
(Mounts Over Horizontal Return Air Opening)**

|  | 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" |         |

**Note:** The drawings on this page are prepared by the manufacturer in order to provide detail regarding job layout only. These drawings are not intended to be used as a basis to construct, build or modify the items depicted in the drawings. The manufacturer is not responsible for the unauthorized use of these drawings and expressly disclaims any liability for damages resulting from such unauthorized use.

# Determine Unit Clearances

Figure 13. Space on Sides Requirements



|   | 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]                         |          | 1173.99 [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] |           |

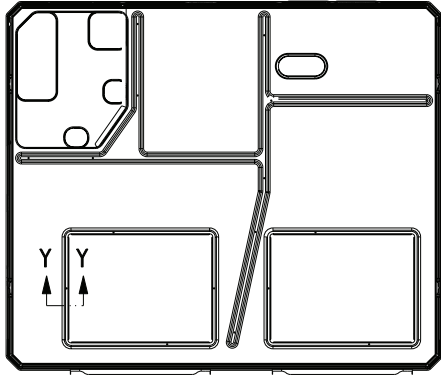
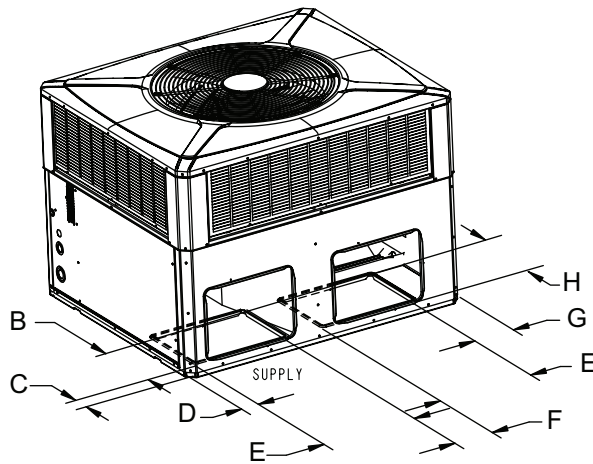
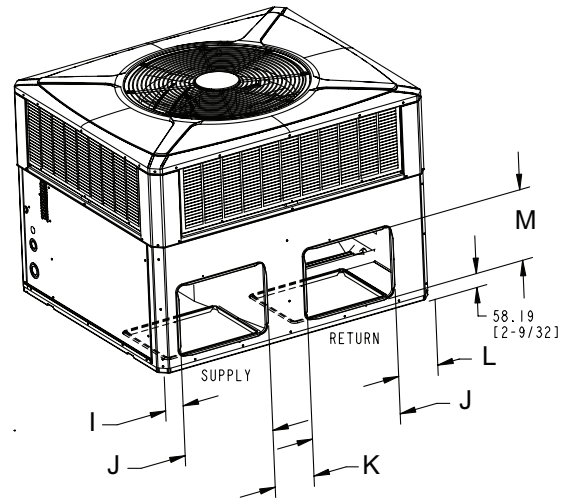


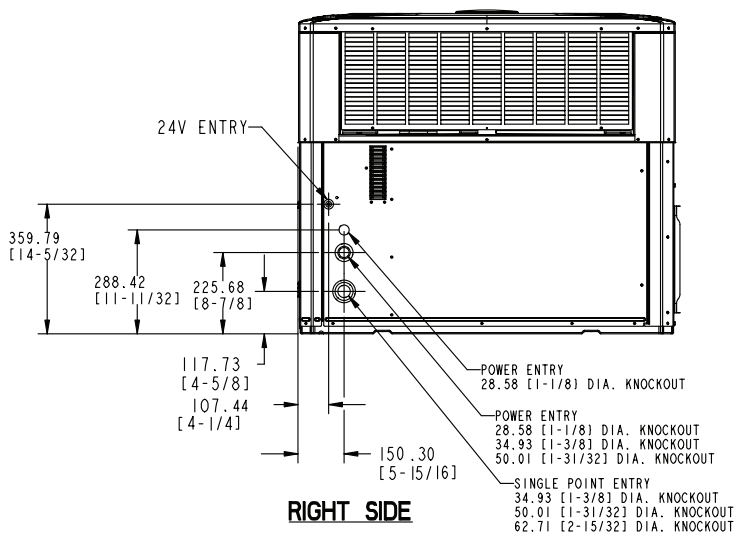
Figure 14. Bottom and Back Duct Openings



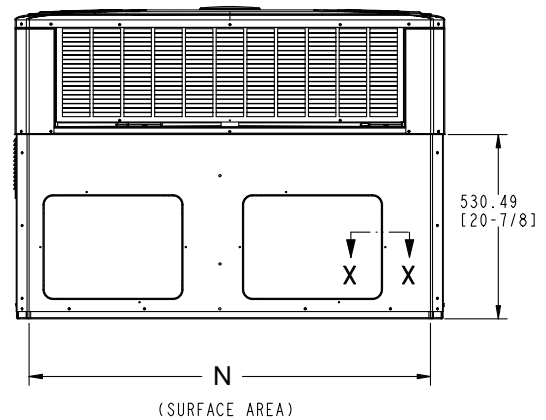
BOTTOM DUCT OPENINGS



BACK DUCT OPENINGS



RIGHT SIDE



BACK SIDE

|          | Height<br>mm (in)  | PHYSICAL DIMENSIONS mm (in) |                 |                 |                  |                  |                   |                  |                 |                   |                  |                   |                   |                    |
|----------|--------------------|-----------------------------|-----------------|-----------------|------------------|------------------|-------------------|------------------|-----------------|-------------------|------------------|-------------------|-------------------|--------------------|
|          | A                  | B                           | C               | D               | E                | F                | G                 | H                | I               | J                 | K                | L                 | M                 | N                  |
| 4WCZ6036 | 949.33<br>(37.37)  | 304.80<br>(12.0)            | 92.33<br>(3.63) | 66.51<br>(2.62) | 406.40<br>(16.0) | 167.89<br>(6.61) | 173.46<br>(6.83)  | 304.80<br>(12.0) | 48.35<br>(1.90) | 398.22<br>(15.67) | 176.07<br>(6.93) | 176.68<br>(6.95)  | 296.62<br>(11.67) | 1155.45<br>(45.49) |
| 4WCZ6048 | 1050.93<br>(41.37) | 457.20<br>(18.0)            | 82.16<br>(3.23) | 82.16<br>(3.23) | 381.00<br>(15.0) | 244.09<br>(9.61) | 325.49<br>(12.80) | 381.00<br>(15.0) | 86.25<br>(3.39) | 449.02<br>(17.67) | 176.07<br>(6.93) | 329.58<br>(12.97) | 372.82<br>(14.67) | 1351.95<br>(53.22) |
| 4WCZ6060 |                    |                             |                 |                 | 457.20<br>(18.0) |                  |                   |                  |                 |                   |                  |                   |                   |                    |

|          | Corner Weights KG/LBS |            |           |            | SHIPPING WEIGHT<br>KG/LBS | UNIT WEIGHT<br>KG/LBS | Center Of Gravity mm[inch] |          |
|----------|-----------------------|------------|-----------|------------|---------------------------|-----------------------|----------------------------|----------|
|          | W1                    | W2         | W3        | W4         |                           |                       | BB                         | CC       |
| 4WCZ6036 | 60.8 [134]            | 38.1 [84]  | 27.2 [60] | 42.6 [94]  | 200.5 [442]               | 168.7 [372]           | 401.3 [15.8]               | 508 [20] |
| 4WCZ6048 | 68.9 [152]            | 40.8 [90]  | 30.8 [68] | 52.2 [115] | 275.6 [607]               | 217.5 [479]           | 414.0 [16.3]               | 635 [25] |
| 4WCZ6060 | 80.3 [177]            | 47.6 [105] | 35.8 [79] | 60.8 [134] | 282.8 [623]               | 224.5 [495]           | 414.0 [16.3]               | 635 [25] |



# 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 A.H.R.I. 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 glass 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 Climatuff® two-stage compressors. Internal overcurrent and over temperature protection, internal pressure relief shall be standard.

## Refrigeration System

All units shall have TXV in cooling and TXV in heating. Service pressure tap ports, and a refrigerant line filter dryer 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 inch O.D. 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

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

## Condenser Fan

Direct-drive, draw thru propeller type. Weather-proofed permanent split capacitor fan motor shall have built-in thermal overload and permanently lubricated motor bearings.

## 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 unit cabinet in the heater access section. Single source branch power circuit shall be protected and wired in accordance with local codes.

**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 wiring plug 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 BAYRLAY004A 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 Setback Thermostat**

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







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