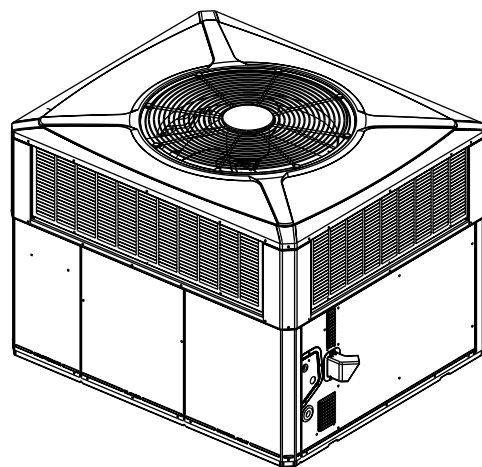




# Product and Submittal Data

## Single Packaged Gas/Electric Choice, Convertible, 2 to 5 Ton, R-454B

5YCC4024A1060A  
5YCC4030A1070A  
5YCC4036A1070A  
5YCC4036A1090A  
5YCC4042A1060A  
5YCC4042A1090A  
5YCC4048A1070A  
5YCC4048A1090A  
5YCC4060A1090A  
5YCC4060A1115A  
5YCC4036A3070A  
5YCC4036A3090A  
5YCC4048A3070A  
5YCC4048A3090A  
5YCC4060A3115A  
5YCC4036A4070A  
5YCC4036A4090A  
5YCC4048A4070A  
5YCC4048A4090A  
5YCC4060A4115A



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



# Introduction

Trane offers a complete family of packaged gas/electric heating and cooling systems, designed to provide the unbeatable combination of energy efficiency and lower operating costs. In warm weather, the package gas/electric system functions as an all-electric, high efficiency air conditioner. In cold weather, it operates as a natural gas or propane gas furnace, offering the best of both energy worlds.

**Because cooling and heating functions are all contained in a single cabinet, a single packaged convertible gas/electric system is 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 American Standard thermostat control, and air distribution ducts, you have a highly efficient, total home comfort system.

**Single Packaged Convertible Gas/Electric 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 Convertible Gas/Electric 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.

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## Revision History

- Updated Optional equipment listing table, and added Adaptor Kit for CleanEffects and Media Filter.
- Updated Product specification tables.
- Updated Wiring diagram images.
- Updated Indoor fan performance tables.



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# Optional Equipment Listing

**Table 1. Optional equipment listing**

|                                                                                                 |                  |
|-------------------------------------------------------------------------------------------------|------------------|
| Hinged Filter Access Door (5YCC4024-036) <sup>(a)</sup>                                         | BAYACCDOR1A [ ]  |
| Hinged Filter Access Door (5YCC4042-060) <sup>(a)</sup>                                         | BAYACCDOR2A [ ]  |
| Roof Curb Full Perimeter (5YCC024-036)                                                          | BAYCURB050B [ ]  |
| Roof Curb Full Perimeter (5YCC042-060)                                                          | BAYCURB051B [ ]  |
| Roof Curb Utility Extension Kit (Used with BAYCURB050B)                                         | BAYUTIL101B [ ]  |
| Roof Curb Utility Extension Kit (Used with BAYCURB051B)                                         | BAYUTIL102B [ ]  |
| 0-25% Manual Fresh Air Damper (5YCC4024-36) <sup>(b) (c)</sup>                                  | BAYOSAH001A [ ]  |
| 0-25% Manual Fresh Air Damper (5YCC4042-60) <sup>(b) (c)</sup>                                  | BAYOSAH002A [ ]  |
| Motorized Fresh Air Damper (5YCC4024-036) <sup>(b)</sup>                                        | BAYDMPR101A [ ]  |
| Motorized Fresh Air Damper (5YCC4042-060) <sup>(b)</sup>                                        | BAYDMPR102A [ ]  |
| 0-100% Mod Economizer w/Baro. Relief (5YCC4024-036) <sup>(b) (d) (e)</sup>                      | BAYECON105A [ ]  |
| 0-100% Mod Economizer w/Baro. Relief (5YCC4042-060) <sup>(b)</sup>                              | BAYECON106A [ ]  |
| 0-100% Horizontal Economizer (5YCC4024-36) <sup>(b)</sup>                                       | BAYECON205A [ ]  |
| 0-100% Horizontal Economizer (5YCC4042-60) <sup>(b)</sup>                                       | BAYECON206A [ ]  |
| Enthalpy Control for Economizer (Used with all BAYECON)                                         | BAYEENTH001A [ ] |
| Remote Potentiometer (Used with all BAYECON)                                                    | BAYSTAT023 [ ]   |
| 1 to 2-in. Filter Frame (5YCC4024-036) (18 x 25 filter not included)                            | BAYFLTR101C [ ]  |
| 1 to 2-in. Filter Frame (5YCC4042-060) (two 18 x 20 filters not included)                       | BAYFLTR201C [ ]  |
| Head Pressure Control (Low Ambient Cool) (208/240v) Kit                                         | BAYLOAM105A [ ]  |
| Quick Start Kit (5YCC4)                                                                         | BAYQSTK301C [ ]  |
| Crankcase Heater Scroll (5YCC4042-060) (230v)                                                   | BAYCCHT102A [ ]  |
| Crankcase Heater Scroll (5YCC4024-036) (230v)                                                   | BAYCCHT103A [ ]  |
| Crankcase Heater Scroll (5YCC4024-036) (460v)                                                   | BAYCCHT404B [ ]  |
| Crankcase Heater Scroll (5YCC4042-060) (460v)                                                   | BAYCCHT405A [ ]  |
| Adapter Curb (5YCC4024-36) to BAYCURB030, 38                                                    | BAYADAP050A [ ]  |
| Adapter Curb (5YCC4024-36) to BAYCURB033                                                        | BAYADAP051A [ ]  |
| Adapter Curb (5YCC4042-60) to BAYCURB030, 38                                                    | BAYADAP052A [ ]  |
| Adapter Curb (5YCC4042-60) to BAYCURB033                                                        | BAYADAP053A [ ]  |
| Adapter Curb (5YCC4042-60) to BAYCURB034                                                        | BAYADAP054A [ ]  |
| 12-in. Duct Shroud Covers Horizontal (5YCC4024-060) <sup>(f)</sup>                              | BAYCOVR112A [ ]  |
| 18-in. Duct Shroud Covers Horizontal (5YCC4024-060) <sup>(f)</sup>                              | BAYCOVR118A [ ]  |
| Extreme Condition Mounting Kit — All BAYCURB & BAYADAP                                          | BAYEXMK001A [ ]  |
| Extreme Condition Mounting Kit — All BAYUTIL                                                    | BAYEXMK002B [ ]  |
| Extreme Condition Mounting Kit — All Slab Mounts                                                | BAYEXMK003A [ ]  |
| Lifting Lug Kit                                                                                 | BAYLIFT002B [ ]  |
| LP Conversion Kit (All 40K and 120K models)                                                     | BAYLPKT100C [ ]  |
| LP Conversion Kit (All 64K, 70K, and 96K models)                                                | BAYLPKT101C [ ]  |
| LP Conversion Kit (All 75K Models)                                                              | BAYLPKT102C [ ]  |
| LP Conversion Kit (All 60K and 90K models)                                                      | BAYLPKT103A [ ]  |
| LP Conversion Kit (All 115K models)                                                             | BAYLPKT104A [ ]  |
| Adaptor Kit for Installation of CleanEffects and 5-in. Media Filter (Horizontal) (5YCC4024-036) | BAYACCEADP1B [ ] |
| Adaptor Kit for Installation of CleanEffects and 5-in. Media Filter (Horizontal) (5YCC4042-060) | BAYACCEADP2B [ ] |

(a) BAYACCDOR1A requires BAYFLTR101C and BAYACCDOR2A requires BAYFLTR201C. They are not backward compatible to BAYFLTR101/201A.

(b) Must use internal filter frame when economizer or fresh air kit is used.

(c) BAYOSAH001A and BAYOSAH002A are not compatible with BAYACCDOR1A or BAYACCDOR2A.

(d) Dry bulb control standard with economizer.

(e) Downflow only.

(f) BAYCOVR112,118A will not cover 18-in. square-to-round applications.



# Product Specifications

**Table 2. Models — 5YCC4024A1060A, 5YCC4030A1070A, 5YCC4036A1070A, 5YCC4036A1090A, and 5YCC4042A1060A**

| Model                                             | 5YCC4024A1060A                   | 5YCC4030A1070A  | 5YCC4036A1070A  | 5YCC4036A1090A  | 5YCC4042A1060A  |
|---------------------------------------------------|----------------------------------|-----------------|-----------------|-----------------|-----------------|
| Rated Volts/Ph/Hz                                 | 208–230/1/60                     | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    |
| <b>Performance Cooling BTUH<sup>(a)</sup></b>     | 24000                            | 28400           | 36000           | 36000           | 40000           |
| Indoor Airflow (CFM)                              | 823                              | 923             | 1192            | 1192            | 1499            |
| Power Input (kW)                                  | 1.98                             | 2.44            | 3.12            | 3.12            | 3.53            |
| EER2/SEER2 (BTU/Watt-Hr.)                         | 11.0/14.3                        | 11.0/13.8       | 11.0/13.8       | 11.0/13.8       | 11.0/13.8       |
| Sound Power Rating [dB(A)] <sup>(b)</sup>         | 66.6                             | 70.0            | 71.4            | 71.4            | 74.6            |
| <b>Performance Heating<sup>(c)</sup></b>          |                                  |                 |                 |                 |                 |
| Input BTUH-1st Stage (Natural Gas) <sup>(d)</sup> | 60000                            | 70000           | 70000           | 90000           | 60000           |
| AFUE                                              | 81                               | 81              | 81              | 81              | 81              |
| Temp. Rise — Min/Max (°F)                         | 30 / 60                          | 30 / 60         | 30 / 60         | 35 / 65         | 30 / 60         |
| Orifice Qty/Drill Sz. (Natural Gas)               | 2 / #37                          | 2 / #33         | 2 / #33         | 3 / #37         | 2 / #37         |
| <b>Power Conn. — V/Ph/Hz</b>                      | 208–230/1/60                     | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    |
| Min. Brch. Cir. Ampacity <sup>(e)</sup>           | 16                               | 21              | 28              | 28              | 26              |
| Fuse Size — Max. (amps)                           | 25                               | 30              | 40              | 40              | 40              |
| Fuse Size — Recmd. (amps)                         | 25                               | 30              | 40              | 40              | 40              |
| <b>Compressor</b>                                 | Scroll                           | Scroll          | Scroll          | Scroll          | Scroll          |
| Volts/Ph/Hz                                       | 208–230/1/60                     | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    |
| R.L. Amps — L.R. Amps                             | 10.3 / 60.2                      | 12.7 / 75.6     | 16.7 / 93.5     | 16.7 / 93.5     | 14.7 / 109.0    |
| <b>Outdoor Coil — Type</b>                        | Spine-Fin                        | Spine-Fin       | Spine-Fin       | Spine-Fin       | Spine-Fin       |
| Rows/F.P.I                                        | 2 / 24                           | 2 / 24          | 2 / 24          | 2 / 24          | 2 / 24          |
| Face Area (sq. ft.)                               | 13.32                            | 13.32           | 15.49           | 15.49           | 15.63           |
| Tube Size (in.)                                   | 3/8                              | 3/8             | 3/8             | 3/8             | 3/8             |
| <b>Indoor Coil — Type</b>                         | MCHE                             | MCHE            | MCHE            | MCHE            | MCHE            |
| Rows/F.P.I                                        | 2 / 16                           | 2 / 16          | 2 / 16          | 2 / 16          | 2 / 16          |
| Face Area (sq. ft.)                               | 2.7                              | 2.7             | 2.7             | 2.7             | 3.9             |
| Tube Size Width (in.)                             | 0.81                             | 0.81            | 1.00            | 1.00            | 0.81            |
| Refrigeration Control                             | Expansion Valve                  | Expansion Valve | Expansion Valve | Expansion Valve | Expansion Valve |
| Drain Conn. Size (in.)                            | 3/4 Female NPT                   | 3/4 Female NPT  | 3/4 Female NPT  | 3/4 Female NPT  | 3/4 Female NPT  |
| <b>Outdoor Fan — Type</b>                         | Propeller                        | Propeller       | Propeller       | Propeller       | Propeller       |
| Dia. (in.)                                        | 23.4                             | 23.4            | 23.4            | 23.4            | 28.3            |
| Drive/No. Speeds                                  | Direct / 1                       | Direct / 1      | Direct / 1      | Direct / 1      | Direct / 1      |
| CFM @ 0.0 in. w.g. <sup>(f)</sup>                 | 2350                             | 2800            | 3080            | 3080            | 3400            |
| Motor— HP/R.P.M                                   | 1/12 / 810                       | 1/6 / 825       | 1/5 / 825       | 1/5 / 825       | 1/4 / 825       |
| Volts/Ph/Hz                                       | 208–230/1/60                     | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    |
| F.L. Amps/L.R Amps                                | 0.54 / 0.82                      | 0.85 / 1.65     | 1.1 - 2.0       | 1.1 - 2.0       | 1.5 / 3.07      |
| <b>Indoor Fan — Type</b>                          | Constant Torque ECM              |                 |                 |                 |                 |
| Dia. x Width (in.)                                | 10.62 X 10.62                    | 10.62 X 10.62   | 10.62 X 10.62   | 10.62 X 10.62   | 10.62 X 10.62   |
| Drive/No. Speeds                                  | Direct / 4                       | Direct / 4      | Direct / 4      | Direct / 4      | Direct / 4      |
| CFM @ 0.0 in. w.g. <sup>(g)</sup>                 | See Indoor Fan Performance Table |                 |                 |                 |                 |
| Motor— HP/R.P.M.                                  | 1/3 / 1050                       | 1/2 / 1050      | 3/4 / 1050      | 3/4 / 1050      | 3/4 / 1050      |
| Volts/Ph/Hz                                       | 208–230/1/60                     | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    |
| F.L. Amps                                         | 2.7                              | 3.9             | 6.0             | 6.0             | 6.0             |
| <b>Combustion Fan — Type</b>                      | Centrifugal                      | Centrifugal     | Centrifugal     | Centrifugal     | Centrifugal     |



## Product Specifications

**Table 2. Models — 5YCC4024A1060A, 5YCC4030A1070A, 5YCC4036A1070A, 5YCC4036A1090A, and 5YCC4042A1060A (continued)**

| Model                                    | 5YCC4024A1060A   | 5YCC4030A1070A | 5YCC4036A1070A | 5YCC4036A1090A | 5YCC4042A1060A |
|------------------------------------------|------------------|----------------|----------------|----------------|----------------|
| Drive/No. Speeds                         | Direct / 1       | Direct / 1     | Direct / 1     | Direct / 1     | Direct / 1     |
| Motor— HP/R.P.M.                         | 1/34 / 3345      | 1/34 / 3290    | 1/34 / 3290    | 1/34 / 3075    | 1/34 / 3345    |
| Volts/Ph/Hz                              | 230/1/60         | 230/1/60       | 230/1/60       | 230/1/60       | 230/1/60       |
| FLA                                      | 0.20             | 0.20           | 0.20           | 0.24           | 0.20           |
| Filter/ Furnished                        | No               | No             | No             | No             | No             |
| Type Recommended                         | Throwaway        | Throwaway      | Throwaway      | Throwaway      | Throwaway      |
| Recmd. Face Area (sq. ft) <sup>(h)</sup> | 4.0              | 4.0            | 4.0            | 4.0            | 5.3            |
| Refrigerant                              | R-454B           | R-454B         | R-454B         | R-454B         | R-454B         |
| Charge (lbs.)                            | 4.40             | 6.97           | 7.20           | 7.20           | 7.30           |
| <b>Charging Specifications</b>           |                  |                |                |                |                |
| Subcooling                               | 12° F            | 10° F          | 12° F          | 12° F          | 12° F          |
| Gas Pipe Size (in.)                      | 1/2              | 1/2            | 1/2            | 1/2            | 1/2            |
| <b>Dimensions</b>                        | <b>H X W X L</b> |                |                |                |                |
| Crated (in.)                             | 46 X 45 X 52     | 48 X 45 X 52   | 48 X 45 X 52   | 48 X 45 X 52   | 46 X 47 X 62   |
| <b>Weight</b>                            |                  |                |                |                |                |
| Shipping (lbs.) / Net (lbs.)             | 436 / 362        | 455 / 381      | 443 / 379      | 458 / 384      | 558 / 455      |

(a) Rated in accordance with AHRI Standard 210/240. AHRI standard rating conditions are: 80 D.B.67 W.B. entering air to indoor coil. 95 D. B. entering air to outdoor coil.

(b) Sound Power values are not adjusted for AHRI 270–95 tonal corrections.

(c) Ratings shown are for elevations up to 2000 ft. For higher elevations reduce ratings at a rate of 4% per 1000 ft. elevation.

(d) Convertible to LPG.

(e) This value is approximate. For more precise value, see Unit Nameplate.

(f) Standard Air — Dry Coil — Outdoor.

(g) Based on U.S. Government Standard Tests.

(h) 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-in. W.C.

**Table 3. Models — 5YCC4042A1090A, 5YCC4048A1070A, 5YCC4048A1090A, 5YCC4060A1090A, and 5YCC4060A1115A**

| Model                                                   | 5YCC4042A1090A | 5YCC4048A1070A | 5YCC4048A1090A | 5YCC4060A1090A | 5YCC4060A1115A |
|---------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|
| Rated Volts/Ph/Hz                                       | 208–230/1/60   | 208–230/1/60   | 208–230/1/60   | 208–230/1/60   | 208–230/1/60   |
| <b>Performance Cooling</b><br><b>BTUH<sup>(a)</sup></b> | 40000          | 47500          | 47500          | 58000          | 58000          |
| Indoor Airflow (CFM)                                    | 1499           | 1673           | 1673           | 1700           | 1700           |
| Power Input (kW)                                        | 3.53           | 4.30           | 4.30           | 5.08           | 5.08           |
| EER2/SEER2 (BTU/Watt-Hr.)                               | 11.0/13.8      | 11.0/13.4      | 11.0/13.4      | 11.0/13.4      | 11.0/13.4      |
| Sound Power Rating [dB (A)] <sup>(b)</sup>              | 74.6           | 72.5           | 72.5           | 76.0           | 76.0           |
| <b>Performance Heating<sup>(c)</sup></b>                |                |                |                |                |                |
| Input BTUH-1st Stage<br>(Natural Gas) <sup>(d)</sup>    | 90000          | 70000          | 90000          | 90000          | 115000         |
| AFUE                                                    | 81             | 81             | 81             | 81             | 81             |
| Temp. Rise — Min/Max (° F)                              | 35 / 65        | 30 / 60        | 35 / 65        | 30 / 60        | 30 / 60        |
| Orifice Qty/Drill Sz.<br>(Natural Gas)                  | 3 / #37        | 2 / #33        | 3 / #37        | 3 / #37        | 3 / #32        |
| <b>Power Conn. — V/Ph/Hz</b>                            | 208–230/1/60   | 208–230/1/60   | 208–230/1/60   | 208–230/1/60   | 208–230/1/60   |
| Min. Brch. Cir. Ampacity <sup>(e)</sup>                 | 26             | 36             | 36             | 41             | 41             |
| Fuse Size — Max. (amps)                                 | 40             | 50             | 50             | 60             | 60             |

**Table 3. Models — 5YCC4042A1090A, 5YCC4048A1070A, 5YCC4048A1090A, 5YCC4060A1090A, and 5YCC4060A1115A (continued)**

| Model                                       | 5YCC4042A1090A                   | 5YCC4048A1070A  | 5YCC4048A1090A  | 5YCC4060A1090A  | 5YCC4060A1115A  |
|---------------------------------------------|----------------------------------|-----------------|-----------------|-----------------|-----------------|
| Fuse Size — Recmd. (amps)                   | 40                               | 50              | 50              | 60              | 60              |
| Compressor                                  | Scroll                           | Scroll          | Scroll          | Scroll          | Scroll          |
| Volts/Ph/Hz                                 | 208–230/1/60                     | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    |
| R.L. Amps — L.R. Amps                       | 14.7 / 109.0                     | 22.4 / 126.0    | 22.4 / 126.0    | 25.6 / 150.0    | 25.6 / 150.0    |
| Outdoor Coil — Type                         | Spine-Fin                        | Spine-Fin       | Spine-Fin       | Spine-Fin       | Spine-Fin       |
| Rows/F.P.I                                  | 2 / 24                           | 2 / 24          | 2 / 24          | 2 / 24          | 2 / 24          |
| Face Area (sq. ft.)                         | 15.63                            | 20.54           | 20.54           | 22.99           | 22.99           |
| Tube Size (in.)                             | 3/8                              | 3/8             | 3/8             | 3/8             | 3/8             |
| Indoor Coil — Type                          | MCHE                             | MCHE            | MCHE            | RTPF            | RTPF            |
| Rows/F.P.I                                  | 2 / 16                           | 2 / 16          | 2 / 16          | 4 / 15          | 4 / 15          |
| Face Area (sq. ft.)                         | 3.9                              | 3.9             | 3.9             | 5.0             | 5.0             |
| Tube Size Width (in.)                       | 0.81                             | 0.81            | 0.81            | 0.375           | 0.375           |
| Refrigeration Control                       | Expansion Valve                  | Expansion Valve | Expansion Valve | Expansion Valve | Expansion Valve |
| Drain Conn. Size (in.)                      | 3/4 Female NPT                   | 3/4 Female NPT  | 3/4 Female NPT  | 3/4 Female NPT  | 3/4 Female NPT  |
| Outdoor Fan — Type                          | Propeller                        | Propeller       | Propeller       | Propeller       | Propeller       |
| Dia. (in.)                                  | 28.3                             | 28.3            | 28.3            | 28.3            | 28.3            |
| Drive/No. Speeds                            | Direct / 1                       | Direct / 1      | Direct / 1      | Direct / 1      | Direct / 1      |
| CFM @ 0.0 in. w.g. <sup>(f)</sup>           | 3400                             | 3400            | 3400            | 4800            | 4800            |
| Motor— HP/R.P.M                             | 1/4 / 825                        | 1/4 / 825       | 1/4 / 825       | 1/3 / 825       | 1/3 / 825       |
| Volts/Ph/Hz                                 | 208–230/1/60                     | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    |
| F.L. Amps/L.R Amps                          | 1.5 / 3.07                       | 1.5 / 3.07      | 1.5 / 3.07      | 1.7 / 3.5       | 1.7 / 3.5       |
| Indoor Fan — Type                           | Constant Torque ECM              |                 |                 |                 |                 |
| Dia. x Width (in.)                          | 10.62 X 10.62                    | 10.62 X 10.62   | 10.62 X 10.62   | 11.87 X 10.62   | 11.87 X 10.62   |
| Drive/No. Speeds                            | Direct / 4                       | Direct / 4      | Direct / 4      | Direct / 4      | Direct / 4      |
| CFM @ 0.0 in. w.g. <sup>(g)</sup>           | See Indoor Fan Performance Table |                 |                 |                 |                 |
| Motor— HP/R.P.M.                            | 3/4 / 1050                       | 3/4 / 1050      | 3/4 / 1050      | 1 / 1050        | 1 / 1050        |
| Volts/Ph/Hz                                 | 208–230/1/60                     | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    |
| F.L. Amps                                   | 6.0                              | 6.0             | 6.0             | 7.4             | 7.4             |
| Combustion Fan — Type                       | Centrifugal                      | Centrifugal     | Centrifugal     | Centrifugal     | Centrifugal     |
| Drive/No. Speeds                            | Direct / 1                       | Direct / 1      | Direct / 1      | Direct / 1      | Direct / 1      |
| Motor— HP/R.P.M.                            | 1/34 / 3075                      | 1/34 / 3290     | 1/34 / 3075     | 1/34 / 3075     | 1/34 / 3055     |
| Volts/Ph/Hz                                 | 230/1/60                         | 230/1/60        | 230/1/60        | 230/1/60        | 230/1/60        |
| FLA                                         | 0.24                             | 0.20            | 0.24            | 0.24            | 0.25            |
| Filter/ Furnished                           | No                               | No              | No              | No              | No              |
| Type Recommended                            | Throwaway                        | Throwaway       | Throwaway       | Throwaway       | Throwaway       |
| Recmd. Face Area (sq. ft)<br><sup>(h)</sup> | 5.3                              | 5.3             | 5.3             | 5.3             | 5.3             |



## Product Specifications

**Table 3. Models — 5YCC4042A1090A, 5YCC4048A1070A, 5YCC4048A1090A, 5YCC4060A1090A, and 5YCC4060A1115A (continued)**

| Model                          | 5YCC4042A1090A | 5YCC4048A1070A | 5YCC4048A1090A | 5YCC4060A1090A | 5YCC4060A1115A |
|--------------------------------|----------------|----------------|----------------|----------------|----------------|
| Refrigerant                    | R-454B         | R-454B         | R-454B         | R-454B         | R-454B         |
| Charge (lbs.)                  | 7.30           | 6.60           | 6.60           | 9.75           | 9.75           |
| <b>Charging Specifications</b> |                |                |                |                |                |
| Subcooling                     | 12° F          | 10° F          | 10° F          | 13° F          | 13° F          |
| Gas Pipe Size (in.)            | 1/2            | 1/2            | 1/2            | 1/2            | 1/2            |
| <b>Dimensions</b>              |                |                |                |                |                |
|                                | H X W X L      |                |                |                |                |
| Crated (in.)                   | 46 X 47 X 62   | 50 X 47 X 62   | 50 X 47 X 62   | 50 X 47 X 62   | 50 X 47 X 62   |
| <b>Weight</b>                  |                |                |                |                |                |
| Shipping (lbs.) / Net (lbs.)   | 564 / 460      | 559 / 460      | 564 / 460      | 583 / 479      | 589 / 485      |

- (a) Rated in accordance with AHRI Standard 210/240. AHRI standard rating conditions are: 80 D.B.67 W.B. entering air to indoor coil. 95 D. B. entering air to outdoor coil.  
 (b) Sound Power values are not adjusted for AHRI 270–95 tonal corrections.  
 (c) Ratings shown are for elevations up to 2000 ft. For higher elevations reduce ratings at a rate of 4% per 1000 ft. elevation.  
 (d) Convertible to LPG.  
 (e) This value is approximate. For more precise value, see Unit Nameplate.  
 (f) Standard Air — Dry Coil — Outdoor.  
 (g) Based on U.S. Government Standard Tests.  
 (h) 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-in. W.C.

**Table 4. Models — 5YCC4036A3070A, 5YCC4036A3090A, 5YCC4048A3070A, 5YCC4048A3090A, and 5YCC4060A3115A**

| Model                                                   | 5YCC4036A3070A | 5YCC4036A3090A | 5YCC4048A3070A | 5YCC4048A3090A | 5YCC4060A3115A |
|---------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|
| Rated Volts/Ph/Hz                                       | 208–230/3/60   | 208–230/3/60   | 208–230/3/60   | 208–230/3/60   | 208–230/3/60   |
| <b>Performance Cooling</b><br><b>BTUH<sup>(a)</sup></b> | 36000          | 36000          | 47500          | 47500          | 58000          |
| Indoor Airflow (CFM)                                    | 1192           | 1192           | 1673           | 1673           | 1700           |
| Power Input (kW)                                        | 3.12           | 3.12           | 4.30           | 4.30           | 5.08           |
| EER2/SEER2 (BTU/Watt-Hr.)                               | 11.0/13.8      | 11.0/13.8      | 11.0/13.4      | 11.0/13.4      | 11.0/13.4      |
| Sound Power Rating [dB (A)] <sup>(b)</sup>              | 71.4           | 71.4           | 72.5           | 72.5           | 76.0           |
| <b>Performance Heating<sup>(c)</sup></b>                |                |                |                |                |                |
| Input BTUH-1st Stage (Natural Gas) <sup>(d)</sup>       | 70000          | 90000          | 70000          | 90000          | 115000         |
| AFUE                                                    | 81             | 81             | 81             | 81             | 81             |
| Temp. Rise — Min/Max (° F)                              | 30 / 60        | 35 / 65        | 30 / 60        | 35 / 65        | 30 / 60        |
| Orifice Qty/Drill Sz. (Natural Gas)                     | 2 / #33        | 3 / #37        | 2 / #33        | 3 / #37        | 3 / #32        |
| <b>Power Conn. — V/Ph/Hz</b>                            | 208–230/3/60   | 208–230/3/60   | 208–230/3/60   | 208–230/3/60   | 208–230/3/60   |
| Min. Brch. Cir. Ampacity <sup>(e)</sup>                 | 22             | 22             | 24             | 24             | 29             |
| Fuse Size — Max. (amps)                                 | 30             | 30             | 35             | 35             | 45             |
| Fuse Size — Recmd. (amps)                               | 30             | 30             | 35             | 35             | 45             |
| <b>Compressor</b>                                       | Scroll         | Scroll         | Scroll         | Scroll         | Scroll         |

**Table 4. Models — 5YCC4036A3070A, 5YCC4036A3090A, 5YCC4048A3070A, 5YCC4048A3090A, and 5YCC4060A3115A (continued)**

| Model                                       | 5YCC4036A3070A                   | 5YCC4036A3090A  | 5YCC4048A3070A  | 5YCC4048A3090A  | 5YCC4060A3115A  |
|---------------------------------------------|----------------------------------|-----------------|-----------------|-----------------|-----------------|
| Volts/Ph/Hz                                 | 208-230/3/60                     | 208-230/3/60    | 208-230/3/60    | 208-230/3/60    | 208-230/3/60    |
| R.L. Amps — L.R. Amps                       | 12.2 / 97.5                      | 12.2 / 97.5     | 12.8 / 120.4    | 12.8 / 120.4    | 16.1 / 156.4    |
| <b>Outdoor Coil — Type</b>                  | Spine-Fin                        | Spine-Fin       | Spine-Fin       | Spine-Fin       | Spine-Fin       |
| Rows/F.P.I                                  | 2 / 24                           | 2 / 24          | 2 / 24          | 2 / 24          | 2 / 24          |
| Face Area (sq. ft.)                         | 15.49                            | 15.49           | 20.54           | 20.54           | 22.99           |
| Tube Size (in.)                             | 3/8                              | 3/8             | 3/8             | 3/8             | 3/8             |
| <b>Indoor Coil — Type</b>                   | MCHE                             | MCHE            | MCHE            | MCHE            | RTPF            |
| Rows/F.P.I                                  | 2 / 16                           | 2 / 16          | 2 / 16          | 2 / 16          | 4 / 15          |
| Face Area (sq. ft.)                         | 2.7                              | 2.7             | 3.9             | 3.9             | 5.0             |
| Tube Size Width (in.)                       | 1.00                             | 1.00            | 0.81            | 0.81            | 0.375           |
| Refrigeration Control                       | Expansion Valve                  | Expansion Valve | Expansion Valve | Expansion Valve | Expansion Valve |
| Drain Conn. Size (in.)                      | 3/4 Female NPT                   | 3/4 Female NPT  | 3/4 Female NPT  | 3/4 Female NPT  | 3/4 Female NPT  |
| <b>Outdoor Fan — Type</b>                   | Propeller                        | Propeller       | Propeller       | Propeller       | Propeller       |
| Dia. (in.)                                  | 23.4                             | 23.4            | 28.3            | 28.3            | 28.3            |
| Drive/No. Speeds                            | Direct / 1                       | Direct / 1      | Direct / 1      | Direct / 1      | Direct / 1      |
| CFM @ 0.0 in. w.g. <sup>(f)</sup>           | 3080                             | 3080            | 3400            | 3400            | 4800            |
| Motor— HP/R.P.M                             | 1/5 / 825                        | 1/5 / 825       | 1/4 / 825       | 1/4 / 825       | 1/3 / 825       |
| Volts/Ph/Hz                                 | 208–230/1/60                     | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    |
| F.L. Amps/L.R Amps                          | 1.1 - 2.0                        | 1.1 - 2.0       | 1.5 / 3.07      | 1.5 / 3.07      | 1.7 / 3.5       |
| <b>Indoor Fan — Type</b>                    | Constant Torque ECM              |                 |                 |                 |                 |
| Dia. x Width (in.)                          | 10.62 X 10.62                    | 10.62 X 10.62   | 10.62 X 10.62   | 10.62 X 10.62   | 11.87 X 10.62   |
| Drive/No. Speeds                            | DIRECT / 4                       | DIRECT / 4      | DIRECT / 4      | DIRECT / 4      | DIRECT / 4      |
| CFM @ 0.0 in. w.g. <sup>(g)</sup>           | See Indoor Fan Performance Table |                 |                 |                 |                 |
| Motor— HP/R.P.M.                            | 3/4 / 1050                       | 3/4 / 1050      | 3/4 / 1050      | 3/4 / 1050      | 1 / 1050        |
| Volts/Ph/Hz                                 | 208–230/1/60                     | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    |
| F.L. Amps                                   | 6.0                              | 6.0             | 6.0             | 6.0             | 7.4             |
| <b>Combustion Fan — Type</b>                | Centrifugal                      | Centrifugal     | Centrifugal     | Centrifugal     | Centrifugal     |
| Drive/No. Speeds                            | Direct / 1                       | Direct / 1      | Direct / 1      | Direct / 1      | Direct / 1      |
| Motor— HP/R.P.M.                            | 1/34 / 3075                      | 1/34 / 3075     | 1/34 / 3290     | 1/34 / 3290     | 1/34 / 3075     |
| Volts/Ph/Hz                                 | 230/1/60                         | 230/1/60        | 230/1/60        | 230/1/60        | 230/1/60        |
| FLA                                         | 0.24                             | 0.24            | 0.20            | 0.20            | 0.24            |
| <b>Filter/ Furnished</b>                    | No                               | No              | No              | No              | No              |
| Type Recommended                            | Throwaway                        | Throwaway       | Throwaway       | Throwaway       | Throwaway       |
| Recmd. Face Area (sq. ft)<br><sup>(h)</sup> | 4.0                              | 4.0             | 5.3             | 5.3             | 5.3             |
| <b>Refrigerant</b>                          | R-454B                           | R-454B          | R-454B          | R-454B          | R-454B          |
| Charge (lbs.)                               | 7.20                             | 7.20            | 6.60            | 6.60            | 9.75            |
| <b>Charging Specifications</b>              |                                  |                 |                 |                 |                 |



## Product Specifications

**Table 4. Models — 5YCC4036A3070A, 5YCC4036A3090A, 5YCC4048A3070A, 5YCC4048A3090A, and 5YCC4060A3115A (continued)**

| Model                        | 5YCC4036A3070A | 5YCC4036A3090A | 5YCC4048A3070A | 5YCC4048A3090A | 5YCC4060A3115A |
|------------------------------|----------------|----------------|----------------|----------------|----------------|
| Subcooling                   | 12° F          | 12° F          | 10° F          | 10° F          | 13° F          |
| Gas Pipe Size (in.)          | 1/2            | 1/2            | 1/2            | 1/2            | 1/2            |
| <b>Dimensions</b>            | H X W X L      |                |                |                |                |
| Crated (in.)                 | 48 X 45 X 52   | 48 X 45 X 52   | 50 X 47 X 62   | 50 X 47 X 62   | 50 X 47 X 62   |
| <b>Weight</b>                |                |                |                |                |                |
| Shipping (lbs.) / Net (lbs.) | 442 / 378      | 457 / 383      | 553 / 499      | 558 / 454      | 583 / 479      |

(a) Rated in accordance with AHRI Standard 210/240. AHRI standard rating conditions are: 80 D.B.67 W.B. entering air to indoor coil. 95 D. B. entering air to outdoor coil.

(b) Sound Power values are not adjusted for AHRI 270–95 tonal corrections.

(c) Ratings shown are for elevations up to 2000 ft. For higher elevations reduce ratings at a rate of 4% per 1000 ft. elevation.

(d) Convertible to LPG.

(e) This value is approximate. For more precise value, see Unit Nameplate.

(f) Standard Air — Dry Coil — Outdoor.

(g) Based on U.S. Government Standard Tests.

(h) 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-in. W.C.

**Table 5. Models — 5YCC4036A4070A, 5YCC4036A4090A, 5YCC4048A4070A, 5YCC4048A4090A, and 5YCC4060A4115A**

| Model                                             | 5YCC4036A4070A | 5YCC4036A4090A | 5YCC4048A4070A | 5YCC4048A4090A | 5YCC4060A4115A |
|---------------------------------------------------|----------------|----------------|----------------|----------------|----------------|
| Rated Volts/Ph/Hz                                 | 460/3/60       | 460/3/60       | 460/3/60       | 460/3/60       | 460/3/60       |
| <b>Performance Cooling<br/>BTUH<sup>(a)</sup></b> | 36000          | 3600           | 47500          | 47500          | 58000          |
| Indoor Airflow (CFM)                              | 1192           | 1192           | 1673           | 1673           | 1700           |
| Power Input (kW)                                  | 3.12           | 3.12           | 4.30           | 4.30           | 5.08           |
| EER2/SEER2 (BTU/Watt-Hr.)                         | 11.0/13.8      | 11.0/13.8      | 11.0/13.4      | 11.0/13.4      | 11.0/13.4      |
| Sound Power Rating [dB (A)] <sup>(b)</sup>        | 71.4           | 71.4           | 75.3           | 75.3           | 76.0           |
| <b>Performance Heating<sup>(c)</sup></b>          |                |                |                |                |                |
| Input BTUH-1st Stage (Natural Gas) <sup>(d)</sup> | 70000          | 90000          | 70000          | 90000          | 115000         |
| AFUE                                              | 81             | 81             | 81             | 81             | 81             |
| Temp. Rise — Min/Max (° F)                        | 30 / 60        | 35 / 65        | 30 / 60        | 35 / 65        | 30 / 60        |
| Orifice Qty/Drill Sz. (Natural Gas)               | 2 / #33        | 3 / #37        | 2 / #33        | 3 / #37        | 3 / #32        |
| <b>Power Conn. — V/Ph/Hz</b>                      | 460/3/60       | 460/3/60       | 460/3/60       | 460/3/60       | 460/3/60       |
| Min. Brch. Cir. Ampacity <sup>(e)</sup>           | 14             | 14             | 14             | 14             | 17             |
| Fuse Size — Max. (amps)                           | 15             | 15             | 20             | 20             | 20             |
| Fuse Size — Recmd. (amps)                         | 15             | 15             | 20             | 20             | 20             |
| <b>Compressor</b>                                 | Scroll         | Scroll         | Scroll         | Scroll         | Scroll         |
| Volts/Ph/Hz                                       | 460/3/60       | 460/3/60       | 460/3/60       | 460/3/60       | 460/3/60       |
| R.L. Amps — L.R. Amps                             | 5.8 / 44.3     | 5.8 / 44.3     | 6.1 / 49.4     | 6.1 / 49.4     | 7.1 / 69       |
| <b>Outdoor Coil — Type</b>                        | Spine-Fin      | Spine-Fin      | Spine-Fin      | Spine-Fin      | Spine-Fin      |

**Table 5. Models — 5YCC4036A4070A, 5YCC4036A4090A, 5YCC4048A4070A, 5YCC4048A4090A, and 5YCC4060A4115A (continued)**

| Model                                       | 5YCC4036A4070A                   | 5YCC4036A4090A  | 5YCC4048A4070A  | 5YCC4048A4090A  | 5YCC4060A4115A  |
|---------------------------------------------|----------------------------------|-----------------|-----------------|-----------------|-----------------|
| Rows/F.P.I                                  | 2 / 24                           | 2 / 24          | 2 / 24          | 2 / 24          | 2 / 24          |
| Face Area (sq. ft.)                         | 15.49                            | 15.49           | 20.54           | 20.54           | 22.99           |
| Tube Size (in.)                             | 3/8                              | 3/8             | 3/8             | 3/8             | 3/8             |
| <b>Indoor Coil — Type</b>                   | MCHE                             | MCHE            | MCHE            | MCHE            | RTPF            |
| Rows/F.P.I                                  | 2 / 16                           | 2 / 16          | 2 / 16          | 2 / 16          | 4 / 15          |
| Face Area (sq. ft.)                         | 2.7                              | 2.7             | 3.9             | 3.9             | 5.0             |
| Tube Size Width (in.)                       | 1.00                             | 1.00            | 0.81            | 0.81            | 0.375           |
| Refrigeration Control                       | Expansion Valve                  | Expansion Valve | Expansion Valve | Expansion Valve | Expansion Valve |
| Drain Conn. Size (in.)                      | 3/4 Female NPT                   | 3/4 Female NPT  | 3/4 Female NPT  | 3/4 Female NPT  | 3/4 Female NPT  |
| <b>Outdoor Fan — Type</b>                   | Propeller                        | Propeller       | Propeller       | Propeller       | Propeller       |
| Dia. (in.)                                  | 23.4                             | 23.4            | 28.3            | 28.3            | 28.3            |
| Drive/No. Speeds                            | Direct / 1                       | Direct / 1      | Direct / 1      | Direct / 1      | Direct / 1      |
| CFM @ 0.0 in. w.g. <sup>(f)</sup>           | 3080                             | 3080            | 3400            | 3400            | 4800            |
| Motor— HP/R.P.M                             | 1/5 / 825                        | 1/5 / 825       | 1/4 / 825       | 1/4 / 825       | 1/3 / 825       |
| Volts/Ph/Hz                                 | 460/1/60                         | 460/1/60        | 460/1/60        | 460/1/60        | 460/1/60        |
| F.L. Amps/L.R Amps                          | 0.57 - 2.0                       | 0.57 - 2.0      | 0.8 / 3.07      | 0.8 / 3.07      | 0.97 / 3.5      |
| <b>Indoor Fan — Type</b>                    | Constant Torque ECM              |                 |                 |                 |                 |
| Dia. x Width (in.)                          | 10.62 X 10.62                    | 10.62 X 10.62   | 10.62 X 10.62   | 10.62 X 10.62   | 11.87 X 10.62   |
| Drive/No. Speeds                            | Direct / 4                       | Direct / 4      | Direct / 4      | Direct / 4      | Direct / 4      |
| CFM @ 0.0 in. w.g. <sup>(g)</sup>           | See Indoor Fan Performance Table |                 |                 |                 |                 |
| Motor— HP/R.P.M.                            | 3/4 / 1050                       | 3/4 / 1050      | 3/4 / 1050      | 3/4 / 1050      | 1 / 1050        |
| Volts/Ph/Hz                                 | 208–230/1/60                     | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    | 208–230/1/60    |
| F.L. Amps                                   | 6.0                              | 6.0             | 6.0             | 6.0             | 7.4             |
| <b>Combustion Fan — Type</b>                | Centrifugal                      | Centrifugal     | Centrifugal     | Centrifugal     | Centrifugal     |
| Drive/No. Speeds                            | DIRECT / 1                       | DIRECT / 1      | DIRECT / 1      | DIRECT / 1      | DIRECT / 1      |
| Motor— HP/R.P.M.                            | 1/34 / 3075                      | 1/34 / 3075     | 1/34 / 3290     | 1/34 / 3290     | 1/34 / 3075     |
| Volts/Ph/Hz                                 | 230/1/60                         | 230/1/60        | 230/1/60        | 230/1/60        | 230/1/60        |
| FLA                                         | 0.24                             | 0.24            | 0.20            | 0.20            | 0.24            |
| <b>Filter/ Furnished</b>                    | No                               | No              | No              | No              | No              |
| Type Recommended                            | Throwaway                        | Throwaway       | Throwaway       | Throwaway       | Throwaway       |
| Recmd. Face Area (sq. ft)<br><sup>(h)</sup> | 4.0                              | 4.0             | 5.3             | 5.3             | 5.3             |
| <b>Refrigerant</b>                          | R-454B                           | R-454B          | R-454B          | R-454B          | R-454B          |
| Charge (lbs.)                               | 7.20                             | 7.20            | 6.60            | 6.60            | 9.75            |
| <b>Charging Specifications</b>              |                                  |                 |                 |                 |                 |
| Subcooling                                  | 12° F                            | 12° F           | 10° F           | 10° F           | 13° F           |
| Gas Pipe Size (in.)                         | 1/2                              | 1/2             | 1/2             | 1/2             | 1/2             |
| <b>Dimensions</b>                           | H X W X L                        |                 |                 |                 |                 |



## Product Specifications

**Table 5. Models — 5YCC4036A4070A, 5YCC4036A4090A, 5YCC4048A4070A, 5YCC4048A4090A, and 5YCC4060A4115A (continued)**

| Model                        | 5YCC4036A4070A | 5YCC4036A4090A | 5YCC4048A4070A | 5YCC4048A4090A | 5YCC4060A4115A |
|------------------------------|----------------|----------------|----------------|----------------|----------------|
| Crated (in.)                 | 48 X 45 X 52   | 48 X 45 X 52   | 50 X 47 X 62   | 50 X 47 X 62   | 50 X 47 X 62   |
| Weight                       |                |                |                |                |                |
| Shipping (lbs.) / Net (lbs.) | 455 / 391      | 470 / 396      | 565 / 461      | 570 / 466      | 604 / 500      |

(a) Rated in accordance with AHRI Standard 210/240. AHRI standard rating conditions are: 80 D.B. 67 W.B. entering air to indoor coil. 95 D. B. entering air to outdoor coil.

(b) Sound Power values are not adjusted for AHRI 270–95 tonal corrections.

(c) Ratings shown are for elevations up to 2000 ft. For higher elevations reduce ratings at a rate of 4% per 1000 ft. elevation.

(d) Convertible to LPG.

(e) This value is approximate. For more precise value, see Unit Nameplate.

(f) Standard Air — Dry Coil — Outdoor.

(g) Based on U.S. Government Standard Tests.

(h) 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-in. W.C.



# Indoor Fan Performance (230v)

**Table 6. Airflow — model 5YCC4024A1060A**

| 5YCC4024A1060A       |       | 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 |
| Constant Circulation | CFM   | Approximately 40—50% Cooling or Heating Airflow                    |                |                |                |                |              |              |              |              |     |   |
|                      | WATTS |                                                                    |                |                |                |                |              |              |              |              |     |   |
| Cooling — Low        | CFM   | —                                                                  | 900<br>(891)   | 846<br>(838)   | 794<br>(786)   | 729<br>(722)   | —            | —            | —            | —            | —   | — |
|                      | WATTS | —                                                                  | 114<br>(115)   | 121<br>(122)   | 128<br>(129)   | 138<br>(138)   | —            | —            | —            | —            | —   | — |
| Cooling — Med        | CFM   | —                                                                  | —              | —              | 890<br>(881)   | 836<br>(828)   | 777<br>(769) | 707<br>(700) | —            | —            | —   | — |
|                      | WATTS | —                                                                  | —              | —              | 158<br>(159)   | 167<br>(167)   | 175<br>(176) | 185<br>(186) | —            | —            | —   | — |
| Cooling — High       | CFM   | —                                                                  | —              | —              | —              | 908<br>(899)   | 863<br>(854) | 818<br>(810) | 773<br>(765) | 731<br>(724) | —   | — |
|                      | WATTS | —                                                                  | —              | —              | —              | 248<br>(249)   | 256<br>(258) | 264<br>(266) | 274<br>(276) | 282<br>(284) | —   | — |
| Heating — Low        | CFM   | 1123<br>(1123)                                                     | 1059<br>(1059) | 994<br>(994)   | 943<br>(943)   | 889<br>(889)   | —            | —            | —            | —            | —   | — |
|                      | WATTS | 143<br>(143)                                                       | 152<br>(152)   | 160<br>(160)   | 167<br>(167)   | 175<br>(175)   | —            | —            | —            | —            | —   | — |
| Heating — High       | CFM   | —                                                                  | —              | 1122<br>(1122) | 1069<br>(1069) | 1022<br>(1022) | 974<br>(974) | 922<br>(922) | 871<br>(871) | 809<br>(809) | —   | — |
|                      | WATTS | —                                                                  | —              | 213<br>(213)   | 221<br>(221)   | 229<br>(229)   | 238<br>(238) | 245<br>(245) | 253<br>(253) | 261<br>(261) | —   | — |

**Note:** Cooling airflow must not exceed 900 CFM due to condensate blowoff.

**Table 7. Airflow — model 5YCC4030A1070A**

| 5YCC4030A1070A       |       | 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 |
| Constant Circulation | CFM   | Approximately 40—50% Cooling or Heating Airflow                    |                |                |                |                |                |                |              |     |     |   |
|                      | WATTS |                                                                    |                |                |                |                |                |                |              |     |     |   |
| Cooling — Low        | CFM   | 1051<br>(1041)                                                     | 994<br>(984)   | 939<br>(930)   | 889<br>(880)   | 840<br>(831)   | —              | —              | —            | —   | —   | — |
|                      | WATTS | 126<br>(126)                                                       | 134<br>(135)   | 142<br>(143)   | 150<br>(150)   | 158<br>(158)   | —              | —              | —            | —   | —   | — |
| Cooling — Med        | CFM   | —                                                                  | —              | 1108<br>(1097) | 1070<br>(1059) | 1027<br>(1017) | 975<br>(965)   | 920<br>(911)   | 875<br>(866) | —   | —   | — |
|                      | WATTS | —                                                                  | —              | 239<br>(240)   | 247<br>(248)   | 256<br>(258)   | 267<br>(269)   | 274<br>(276)   | 282<br>(284) | —   | —   | — |
| Cooling — High       | CFM   | —                                                                  | —              | —              | —              | 1099<br>(1088) | 1059<br>(1048) | 1017<br>(1007) | 968<br>(959) | —   | —   | — |
|                      | WATTS | —                                                                  | —              | —              | —              | 259<br>(260)   | 268<br>(270)   | 278<br>(279)   | 289<br>(290) | —   | —   | — |
| Heating — Low        | CFM   | 1148<br>(1136)                                                     | 1103<br>(1091) | 1061<br>(1050) | 1022<br>(1012) | 982<br>(972)   | 932<br>(922)   | —              | —            | —   | —   | — |
|                      | WATTS | 199<br>(197)                                                       | 208<br>(205)   | 216<br>(214)   | 224<br>(222)   | 233<br>(230)   | 243<br>(241)   | —              | —            | —   | —   | — |
| Heating — High       | CFM   | —                                                                  | —              | —              | 1158<br>(1147) | 1122<br>(1111) | 1084<br>(1073) | 1039<br>(1028) | 988<br>(978) | —   | —   | — |
|                      | WATTS | —                                                                  | —              | —              | 301<br>(298)   | 310<br>(307)   | 320<br>(317)   | 331<br>(328)   | 343<br>(339) | —   | —   | — |

**Note:** Cooling airflow must not exceed 1125 CFM due to condensate blowoff.



## Indoor Fan Performance (230v)

**Table 8. Airflow — model 5YCC4036A\*(070)**

| 5YCC4036A*(070)      |       | 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              |
| Constant Circulation | CFM   | Approximately 40—50% Cooling or Heating Airflow                    |                |                |                |                |                |                |                |                |                |                |
|                      | WATTS |                                                                    |                |                |                |                |                |                |                |                |                |                |
| Cooling — Low        | CFM   | —                                                                  | 1272<br>(1259) | 1243<br>(1231) | 1214<br>(1202) | 1186<br>(1174) | 1154<br>(1142) | 1116<br>(1105) | 1072<br>(1061) | —              | —              | —              |
|                      | WATTS | —                                                                  | 352<br>(354)   | 361<br>(363)   | 372<br>(374)   | 382<br>(384)   | 392<br>(394)   | 404<br>(406)   | 416<br>(418)   | —              | —              | —              |
| Cooling — Med        | CFM   | —                                                                  | —              | —              | —              | 1349<br>(1336) | 1319<br>(1306) | 1277<br>(1264) | 1242<br>(1230) | 1199<br>(1187) | 1160<br>(1148) | 1124<br>(1113) |
|                      | WATTS | —                                                                  | —              | —              | —              | 489<br>(492)   | 500<br>(503)   | 511<br>(514)   | 523<br>(526)   | 537<br>(540)   | 548<br>(551)   | 558<br>(561)   |
| Cooling — High       | CFM   | —                                                                  | —              | —              | —              | —              | 1326<br>(1299) | 1296<br>(1270) | 1263<br>(1238) | 1225<br>(1201) | 1183<br>(1159) | 1150<br>(1127) |
|                      | WATTS | —                                                                  | —              | —              | —              | —              | 516<br>(519)   | 527<br>(530)   | 539<br>(542)   | 552<br>(555)   | 566<br>(569)   | 575<br>(578)   |
| Heating — Low        | CFM   | 1185<br>(1173)                                                     | 1141<br>(1130) | 1099<br>(1088) | 1055<br>(1044) | 1009<br>(999)  | 968<br>(958)   | 920<br>(911)   | 854<br>(846)   | 808<br>(800)   | 731<br>(724)   | 624<br>(618)   |
|                      | WATTS | 241<br>(238)                                                       | 251<br>(248)   | 260<br>(258)   | 270<br>(267)   | 279<br>(277)   | 289<br>(286)   | 299<br>(296)   | 311<br>(308)   | 320<br>(316)   | 306<br>(303)   | 284<br>(282)   |
| Heating — High       | CFM   | 1386<br>(1373)                                                     | 1354<br>(1340) | 1311<br>(1298) | 1276<br>(1263) | 1238<br>(1225) | 1198<br>(1186) | 1164<br>(1153) | 1069<br>(1058) | 805<br>(797)   | 689<br>(682)   | 596<br>(590)   |
|                      | WATTS | 386<br>(382)                                                       | 399<br>(395)   | 409<br>(405)   | 419<br>(415)   | 430<br>(425)   | 441<br>(437)   | 452<br>(448)   | 432<br>(428)   | 320<br>(317)   | 303<br>(300)   | 298<br>(295)   |

**Note:** Cooling airflow must not exceed 1350 CFM due to condensate blowoff.

**Table 9. Airflow — model 5YCC4036A\*(090)**

| 5YCC4036A*(090)      |       | 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              |
| Constant Circulation | CFM   | Approximately 40—50% Cooling or Heating Airflow                    |                |                |                |                |                |                |                |                |                |                |
|                      | WATTS |                                                                    |                |                |                |                |                |                |                |                |                |                |
| Cooling — Low        | CFM   | 1288<br>(—)                                                        | 1254<br>(1238) | 1225<br>(1207) | 1193<br>(1176) | 1158<br>(1143) | 1117<br>(1091) | 1070<br>(—)    | —              | —              | —              | —              |
|                      | WATTS | 340<br>(—)                                                         | 348<br>(348)   | 357<br>(357)   | 366<br>(366)   | 375<br>(375)   | 385<br>(385)   | 395<br>(—)     | —              | —              | —              | —              |
| Cooling — Med        | CFM   | —                                                                  | 1326<br>(1320) | 1300<br>(1294) | 1271<br>(1263) | 1241<br>(1234) | 1201<br>(1196) | 1107<br>(1102) | —              | —              | —              | —              |
|                      | WATTS | —                                                                  | 410<br>(410)   | 419<br>(419)   | 427<br>(427)   | 437<br>(437)   | 447<br>(447)   | 423<br>(423)   | —              | —              | —              | —              |
| Cooling — High       | CFM   | —                                                                  | —              | —              | —              | 1349<br>(1336) | 1319<br>(1306) | 1277<br>(1264) | 1242<br>(1230) | 1199<br>(1187) | 1160<br>(1148) | 1124<br>(1113) |
|                      | WATTS | —                                                                  | —              | —              | —              | 489<br>(492)   | 500<br>(503)   | 511<br>(514)   | 523<br>(526)   | 537<br>(540)   | 548<br>(551)   | 558<br>(561)   |
| Heating — Low        | CFM   | 1292<br>(1285)                                                     | 1259<br>(1252) | 1230<br>(1222) | 1199<br>(1186) | 1163<br>(1148) | 1124<br>(1111) | 1071<br>(1060) | 963<br>(954)   | 799<br>(781)   | 638<br>(—)     | —              |
|                      | WATTS | 343<br>(343)                                                       | 351<br>(351)   | 360<br>(360)   | 369<br>(369)   | 378<br>(378)   | 388<br>(388)   | 398<br>(398)   | 370<br>(370)   | 316<br>(316)   | 293<br>(—)     | —              |
| Heating — High       | CFM   | 1367<br>(1355)                                                     | 1341<br>(1326) | 1310<br>(1295) | 1282<br>(1267) | 1250<br>(1235) | 1212<br>(1183) | 1075<br>(1056) | 928<br>(913)   | 781<br>(—)     | 631<br>(—)     | —              |
|                      | WATTS | 404<br>(404)                                                       | 413<br>(413)   | 421<br>(421)   | 431<br>(431)   | 439<br>(439)   | 448<br>(448)   | 404<br>(404)   | 346<br>(346)   | 302<br>(—)     | 282<br>(—)     | —              |

**Note:** Cooling airflow must not exceed 1350 CFM due to condensate blowoff.

**Table 10. Airflow — model 5YCC4042A1060A**

| 5YCC4042A1060A       |       | 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 |
| Constant Circulation | CFM   | Approximately 40—50% Cooling or Heating Airflow                    |                |                |                |                |                |                |                |                |                |   |
|                      | WATTS |                                                                    |                |                |                |                |                |                |                |                |                |   |
| Cooling — Low        | CFM   | 1358<br>(1345)                                                     | 1393<br>(1379) | 1348<br>(1334) | 1296<br>(1283) | 1253<br>(1241) | —              | —              | —              | —              | —              | — |
|                      | WATTS | 224<br>(228)                                                       | 233<br>(238)   | 242<br>(247)   | 252<br>(257)   | 262<br>(267)   | —              | —              | —              | —              | —              | — |
| Cooling — Med        | CFM   | 1521<br>(1506)                                                     | 1490<br>(1475) | 1448<br>(1433) | 1391<br>(1377) | 1362<br>(1348) | 1338<br>(1325) | 1315<br>(1302) | 1307<br>(1293) | 1254<br>(1241) | —              | — |
|                      | WATTS | 306<br>(312)                                                       | 316<br>(322)   | 327<br>(333)   | 337<br>(344)   | 348<br>(354)   | 359<br>(366)   | 369<br>(377)   | 382<br>(389)   | 395<br>(403)   | —              | — |
| Cooling — High       | CFM   | —                                                                  | —              | —              | —              | 1529<br>(1514) | 1491<br>(1476) | 1467<br>(1453) | 1425<br>(1411) | 1385<br>(1371) | 1345<br>(1331) | — |
|                      | WATTS | —                                                                  | —              | —              | —              | 455<br>(464)   | 467<br>(477)   | 477<br>(487)   | 490<br>(499)   | 503<br>(513)   | 513<br>(523)   | — |
| Heating — Low        | CFM   | 1104<br>(1109)                                                     | 1042<br>(1047) | 977<br>(982)   | 911<br>(916)   | 841<br>(845)   | 764<br>(767)   | 687<br>(690)   | 598<br>(601)   | —              | —              | — |
|                      | WATTS | 109<br>(109)                                                       | 116<br>(117)   | 124<br>(125)   | 134<br>(134)   | 142<br>(143)   | 152<br>(153)   | 161<br>(162)   | 171<br>(172)   | —              | —              | — |
| Heating — High       | CFM   | —                                                                  | 1171<br>(1177) | 1112<br>(1117) | 1050<br>(1055) | 990<br>(995)   | 927<br>(931)   | 821<br>(856)   | 779<br>(783)   | 704<br>(707)   | —              | — |
|                      | WATTS | —                                                                  | 154<br>(155)   | 162<br>(163)   | 172<br>(173)   | 182<br>(182)   | 192<br>(193)   | 203<br>(204)   | 214<br>(215)   | 225<br>(226)   | —              | — |

**Note:** Cooling airflow must not exceed 1575 CFM due to condensate blowoff.

**Table 11. Airflow — model 5YCC4042A1090A**

| 5YCC4042A1090A       |       | 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              |
| Constant Circulation | CFM   | Approximately 40—50% Cooling or Heating Airflow                    |                |                |                |                |                |                |                |                |                |                |
|                      | WATTS |                                                                    |                |                |                |                |                |                |                |                |                |                |
| Cooling — Low        | CFM   | 1358<br>(1345)                                                     | 1393<br>(1379) | 1348<br>(1334) | 1296<br>(1283) | 1253<br>(1241) | —              | —              | —              | —              | —              | —              |
|                      | WATTS | 224<br>(228)                                                       | 233<br>(238)   | 242<br>(247)   | 252<br>(257)   | 262<br>(267)   | —              | —              | —              | —              | —              | —              |
| Cooling — Med        | CFM   | 1521<br>(1506)                                                     | 1490<br>(1475) | 1448<br>(1433) | 1391<br>(1377) | 1362<br>(1348) | 1338<br>(1325) | 1315<br>(1302) | 1307<br>(1293) | 1254<br>(1241) | —              | —              |
|                      | WATTS | 306<br>(312)                                                       | 316<br>(322)   | 327<br>(333)   | 337<br>(344)   | 348<br>(354)   | 359<br>(366)   | 369<br>(377)   | 382<br>(389)   | 395<br>(403)   | —              | —              |
| Cooling — High       | CFM   | —                                                                  | —              | —              | —              | 1529<br>(1514) | 1491<br>(1476) | 1467<br>(1453) | 1425<br>(1411) | 1385<br>(1371) | 1345<br>(1331) | —              |
|                      | WATTS | —                                                                  | —              | —              | —              | 455<br>(464)   | 467<br>(477)   | 477<br>(487)   | 490<br>(499)   | 503<br>(513)   | 513<br>(523)   | —              |
| Heating — Low        | CFM   | 1419<br>(1426)                                                     | 1380<br>(1387) | 1341<br>(1348) | 1295<br>(1301) | 1249<br>(1255) | 1204<br>(1210) | 1160<br>(1166) | 1115<br>(1120) | 1069<br>(1074) | 1015<br>(1020) | 961<br>(966)   |
|                      | WATTS | 240<br>(241)                                                       | 250<br>(251)   | 259<br>(260)   | 269<br>(270)   | 279<br>(281)   | 291<br>(292)   | 302<br>(303)   | 312<br>(314)   | 323<br>(325)   | 333<br>(335)   | 348<br>(349)   |
| Heating — High       | CFM   | 1559<br>(1567)                                                     | 1524<br>(1531) | 1483<br>(1491) | 1443<br>(1450) | 1401<br>(1408) | 1363<br>(1370) | 1319<br>(1326) | 1276<br>(1282) | 1233<br>(1239) | 1195<br>(1201) | 1147<br>(1152) |
|                      | WATTS | 313<br>(315)                                                       | 324<br>(325)   | 335<br>(337)   | 346<br>(347)   | 356<br>(358)   | 367<br>(368)   | 379<br>(381)   | 392<br>(394)   | 403<br>(405)   | 415<br>(417)   | 428<br>(430)   |

**Note:** Cooling airflow must not exceed 1575 CFM due to condensate blowoff.



## Indoor Fan Performance (230v)

**Table 12. Airflow — model 5YCC4048A\*(070)**

| 5YCC4048A*(070)      |       | 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 |
| Constant Circulation | CFM   | Approximately 40—50% Cooling or Heating Airflow                    |                |                |                |                |                |                |                |                |                |   |
|                      | WATTS |                                                                    |                |                |                |                |                |                |                |                |                |   |
| Cooling — Low        | CFM   | 1583<br>(1567)                                                     | 1542<br>(1526) | 1502<br>(1487) | 1460<br>(1445) | 1415<br>(1401) | —              | —              | —              | —              | —              | — |
|                      | WATTS | 302<br>(308)                                                       | 313<br>(320)   | 324<br>(330)   | 332<br>(339)   | 346<br>(352)   | —              | —              | —              | —              | —              | — |
| Cooling — Med        | CFM   | 1763<br>(1745)                                                     | 1723<br>(1706) | 1689<br>(1672) | 1648<br>(1632) | 1609<br>(1593) | 1568<br>(1552) | 1527<br>(1512) | 1488<br>(1473) | 1447<br>(1433) | —              | — |
|                      | WATTS | 414<br>(422)                                                       | 426<br>(434)   | 436<br>(444)   | 448<br>(457)   | 459<br>(468)   | 471<br>(480)   | 483<br>(493)   | 495<br>(505)   | 510<br>(520)   | —              | — |
| Cooling — Med High   | CFM   | —                                                                  | 1786<br>(1768) | 1757<br>(1739) | 1729<br>(1712) | 1700<br>(1683) | 1675<br>(1658) | 1648<br>(1632) | 1624<br>(1608) | 1504<br>(1489) | —              | — |
|                      | WATTS | —                                                                  | 577<br>(589)   | 591<br>(603)   | 604<br>(616)   | 617<br>(629)   | 631<br>(644)   | 643<br>(656)   | 655<br>(668)   | 599<br>(611)   | —              | — |
| Cooling — High       | CFM   | —                                                                  | —              | —              | —              | —              | 1769<br>(1751) | 1728<br>(1711) | 1688<br>(1671) | 1652<br>(1635) | 1545<br>(1530) | — |
|                      | WATTS | —                                                                  | —              | —              | —              | —              | 613<br>(625)   | 631<br>(644)   | 643<br>(656)   | 647<br>(660)   | 611<br>(623)   | — |
| Heating — Low        | CFM   | 1120<br>(1126)                                                     | 1047<br>(1052) | 980<br>(985)   | 914<br>(918)   | 840<br>(845)   | 758<br>(762)   | 674<br>(677)   | 581<br>(584)   | —              | —              | — |
|                      | WATTS | 117<br>(117)                                                       | 126<br>(127)   | 135<br>(136)   | 145<br>(146)   | 156<br>(156)   | 168<br>(168)   | 179<br>(180)   | 188<br>(189)   | —              | —              | — |
| Heating — High       | CFM   | —                                                                  | 1204<br>(1210) | 1149<br>(1154) | 1095<br>(1100) | 1043<br>(1048) | 989<br>(994)   | 926<br>(930)   | 858<br>(862)   | 798<br>(802)   | —              | — |
|                      | WATTS | —                                                                  | 176<br>(177)   | 185<br>(186)   | 195<br>(196)   | 205<br>(206)   | 216<br>(217)   | 227<br>(228)   | 239<br>(240)   | 249<br>(250)   | —              | — |

**Note:** Cooling airflow must not exceed 1800 CFM due to condensate blowoff.

**Table 13. Airflow — model 5YCC4048A\*(090)**

| 5YCC4048A*(090)      |       | 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              |
| Constant Circulation | CFM   | Approximately 40—50% Cooling or Heating Airflow                    |                |                |                |                |                |                |                |                |                |                |
|                      | WATTS |                                                                    |                |                |                |                |                |                |                |                |                |                |
| Cooling — Low        | CFM   | 1583<br>(1567)                                                     | 1542<br>(1526) | 1502<br>(1487) | 1460<br>(1445) | 1415<br>(1401) | —              | —              | —              | —              | —              | —              |
|                      | WATTS | 302<br>(308)                                                       | 313<br>(320)   | 324<br>(330)   | 332<br>(339)   | 346<br>(352)   | —              | —              | —              | —              | —              | —              |
| Cooling — Med        | CFM   | 1763<br>(1745)                                                     | 1723<br>(1706) | 1689<br>(1672) | 1648<br>(1632) | 1609<br>(1593) | 1568<br>(1552) | 1527<br>(1512) | 1488<br>(1473) | 1447<br>(1433) | —              | —              |
|                      | WATTS | 414<br>(422)                                                       | 426<br>(434)   | 436<br>(444)   | 448<br>(457)   | 459<br>(468)   | 471<br>(480)   | 483<br>(493)   | 495<br>(505)   | 510<br>(520)   | —              | —              |
| Cooling — Med High   | CFM   | —                                                                  | 1786<br>(1768) | 1757<br>(1739) | 1729<br>(1712) | 1700<br>(1683) | 1675<br>(1658) | 1648<br>(1632) | 1624<br>(1608) | 1504<br>(1489) | —              | —              |
|                      | WATTS | —                                                                  | 577<br>(589)   | 591<br>(603)   | 604<br>(616)   | 617<br>(629)   | 631<br>(644)   | 643<br>(656)   | 655<br>(668)   | 599<br>(611)   | —              | —              |
| Cooling — High       | CFM   | —                                                                  | —              | —              | —              | —              | 1769<br>(1751) | 1728<br>(1711) | 1688<br>(1671) | 1652<br>(1635) | 1545<br>(1530) | —              |
|                      | WATTS | —                                                                  | —              | —              | —              | —              | 613<br>(625)   | 631<br>(644)   | 643<br>(656)   | 647<br>(660)   | 611<br>(623)   | —              |
| Heating — Low        | CFM   | 1419<br>(1426)                                                     | 1380<br>(1387) | 1341<br>(1348) | 1295<br>(1301) | 1249<br>(1255) | 1204<br>(1210) | 1160<br>(1166) | 1115<br>(1120) | 1069<br>(1074) | 1015<br>(1020) | 961<br>(966)   |
|                      | WATTS | 240<br>(241)                                                       | 250<br>(251)   | 259<br>(260)   | 269<br>(270)   | 279<br>(281)   | 291<br>(292)   | 302<br>(303)   | 312<br>(314)   | 323<br>(325)   | 333<br>(335)   | 348<br>(349)   |
| Heating — High       | CFM   | 1559<br>(1567)                                                     | 1524<br>(1531) | 1483<br>(1491) | 1443<br>(1450) | 1401<br>(1408) | 1363<br>(1370) | 1319<br>(1326) | 1276<br>(1282) | 1233<br>(1239) | 1195<br>(1201) | 1147<br>(1152) |
|                      | WATTS | 313<br>(315)                                                       | 324<br>(325)   | 335<br>(337)   | 346<br>(347)   | 356<br>(358)   | 367<br>(368)   | 379<br>(381)   | 392<br>(394)   | 403<br>(405)   | 415<br>(417)   | 428<br>(430)   |

**Note:** Cooling airflow must not exceed 1800 CFM due to condensate blowoff.

**Table 14. Airflow — model 5YCC4060A\*(090)**

| 5YCC4060A*(090)      |       | 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 |
| Constant Circulation | CFM   | Approximately 40—50% Cooling or Heating Airflow                    |                |                |                |                |                |                |                |                |                |   |
|                      | WATTS |                                                                    |                |                |                |                |                |                |                |                |                |   |
| Cooling — Low        | CFM   | 1857<br>(1831)                                                     | 1831<br>(1802) | 1800<br>(1765) | 1766<br>(1728) | —              | —              | —              | —              | —              | —              | — |
|                      | WATTS | 515<br>(524)                                                       | 523<br>(533)   | 533<br>(545)   | 544<br>(558)   | —              | —              | —              | —              | —              | —              | — |
| Cooling — Med        | CFM   | 2031<br>(2003)                                                     | 2003<br>(1975) | 1974<br>(1946) | 1940<br>(1913) | 1907<br>(1880) | 1874<br>(1848) | 1837<br>(1811) | 1805<br>(1780) | 1771<br>(1746) | —              | — |
|                      | WATTS | 594<br>(611)                                                       | 609<br>(627)   | 624<br>(642)   | 639<br>(658)   | 653<br>(672)   | 667<br>(686)   | 681<br>(701)   | 695<br>(715)   | 709<br>(730)   | —              | — |
| Cooling — High       | CFM   | 2083<br>(2054)                                                     | 2058<br>(2030) | 2032<br>(2010) | 2003<br>(1976) | 1974<br>(1946) | 1943<br>(1911) | 1911<br>(1879) | 1877<br>(1848) | 1843<br>(1817) | 1807<br>(1781) | — |
|                      | WATTS | 749<br>(770)                                                       | 759<br>(781)   | 769<br>(790)   | 779<br>(804)   | 788<br>(819)   | 803<br>(832)   | 816<br>(845)   | 830<br>(858)   | 845<br>(872)   | 860<br>(887)   | — |
| Heating — Low        | CFM   | 1534<br>(1541)                                                     | 1489<br>(1497) | 1445<br>(1452) | 1403<br>(1410) | 1361<br>(1367) | 1314<br>(1321) | 1275<br>(1281) | 1234<br>(1240) | —              | —              | — |
|                      | WATTS | 281<br>(282)                                                       | 292<br>(293)   | 304<br>(305)   | 314<br>(316)   | 325<br>(327)   | 337<br>(339)   | 348<br>(349)   | 358<br>(360)   | —              | —              | — |
| Heating — High       | CFM   | —                                                                  | 1594<br>(1602) | 1551<br>(1558) | 1511<br>(1518) | 1471<br>(1478) | 1430<br>(1437) | 1386<br>(1392) | 1344<br>(1351) | 1305<br>(1311) | 1265<br>(1271) | — |
|                      | WATTS | —                                                                  | 348<br>(350)   | 361<br>(363)   | 373<br>(374)   | 384<br>(386)   | 396<br>(398)   | 409<br>(411)   | 420<br>(423)   | 432<br>(434)   | 443<br>(445)   | — |

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

**Table 15. Airflow — model 5YCC4060A\*(115)**

| 5YCC4060A*(115)      |       | 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 |
| Constant Circulation | CFM   | Approximately 40—50% Cooling or Heating Airflow                    |                |                |                |                |                |                |                |                |                |   |
|                      | WATTS |                                                                    |                |                |                |                |                |                |                |                |                |   |
| Cooling — Low        | CFM   | 1857<br>(1831)                                                     | 1831<br>(1802) | 1800<br>(1765) | 1766<br>(1728) | —              | —              | —              | —              | —              | —              | — |
|                      | WATTS | 515<br>(524)                                                       | 523<br>(533)   | 533<br>(545)   | 544<br>(558)   | —              | —              | —              | —              | —              | —              | — |
| Cooling — Med        | CFM   | 2031<br>(2003)                                                     | 2003<br>(1975) | 1974<br>(1946) | 1940<br>(1913) | 1907<br>(1880) | 1874<br>(1848) | 1837<br>(1811) | 1805<br>(1780) | 1771<br>(1746) | —              | — |
|                      | WATTS | 594<br>(611)                                                       | 609<br>(627)   | 624<br>(642)   | 639<br>(658)   | 653<br>(672)   | 667<br>(686)   | 681<br>(701)   | 695<br>(715)   | 709<br>(730)   | —              | — |
| Cooling — High       | CFM   | 2083<br>(2054)                                                     | 2058<br>(2030) | 2032<br>(2010) | 2003<br>(1976) | 1974<br>(1946) | 1943<br>(1911) | 1911<br>(1879) | 1877<br>(1848) | 1843<br>(1817) | 1807<br>(1781) | — |
|                      | WATTS | 749<br>(770)                                                       | 759<br>(781)   | 769<br>(790)   | 779<br>(804)   | 788<br>(819)   | 803<br>(832)   | 816<br>(845)   | 830<br>(858)   | 845<br>(872)   | 860<br>(887)   | — |
| Heating — Low        | CFM   | 1827<br>(1815)                                                     | 1792<br>(1790) | 1757<br>(1757) | 1721<br>(1712) | 1685<br>(1679) | 1646<br>(1648) | 1605<br>(1613) | 1570<br>(1574) | —              | —              | — |
|                      | WATTS | 492<br>(510)                                                       | 505<br>(520)   | 517<br>(532)   | 529<br>(549)   | 541<br>(560)   | 553<br>(570)   | 566<br>(582)   | 577<br>(596)   | —              | —              | — |
| Heating — High       | CFM   | —                                                                  | 1927<br>(1910) | 1894<br>(1875) | 1861<br>(1839) | 1824<br>(1803) | 1788<br>(1773) | 1750<br>(1736) | 1711<br>(1704) | 1674<br>(1661) | 1639<br>(1622) | — |
|                      | WATTS | —                                                                  | 614<br>(630)   | 627<br>(634)   | 639<br>(647)   | 651<br>(660)   | 664<br>(672)   | 677<br>(685)   | 689<br>(698)   | 702<br>(712)   | 715<br>(726)   | — |

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



## Indoor Fan Performance (230v)

To set indoor motor for the desired speed options, connect the motor leads in the taps as shown below:

**Table 16. Motor wiring: 5YCC4024 — 42, 5YCC4060**

| Motor Wiring                  | Motor Tap |        |        |        |        |
|-------------------------------|-----------|--------|--------|--------|--------|
| Mode/Speed                    | 1         | 2      | 3      | 4      | 5      |
| Constant Circulation          | G (GR)    | —      | —      | —      | —      |
| Cooling—Low and Heating—Low   | G (GR)    | Y (YL) | —      | W (PR) | —      |
| Cooling—Low and Heating—High  | G (GR)    | Y (YL) | —      | —      | W (PR) |
| Cooling—Med and Heating—Low   | G (GR)    | —      | Y (YL) | W (PR) | —      |
| Cooling—Med and Heating—High  | G (GR)    | —      | Y (YL) | —      | W (PR) |
| Cooling—High and Heating—Low  | G (GR)    | —      | —      | W (PR) | Y (YL) |
| Cooling—High and Heating—High | G (GR)    | —      | —      | Y (YL) | W (PR) |

G signal (GR — green wire), Y signal (YL — yellow wire), W signal (PR — purple wire)

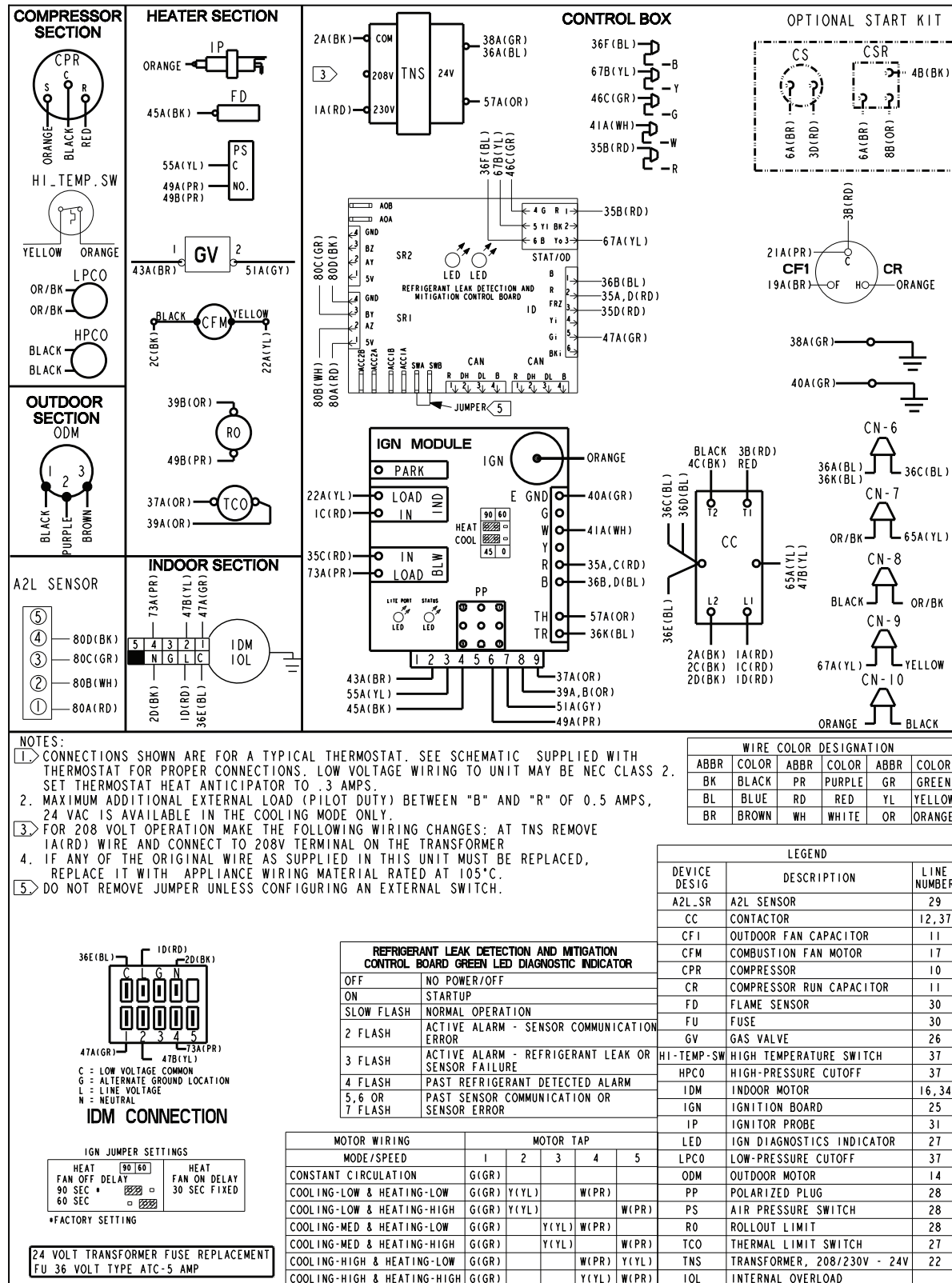
**Table 17. Motor wiring: 5YCC4048**

| Motor Wiring                      | Motor Tap |        |        |        |        |
|-----------------------------------|-----------|--------|--------|--------|--------|
| Mode/Speed                        | 1         | 2      | 3      | 4      | 5      |
| Constant Circulation              | G (GR)    | —      | —      | —      | —      |
| Cooling—Low and Heating—Low       | G (GR)    | Y (YL) | —      | W (PR) | —      |
| Cooling—Low and Heating—High      | G (GR)    | Y (YL) | —      | —      | W (PR) |
| Cooling—Med Low and Heating—Low   | G (GR)    | —      | Y (YL) | W (PR) | —      |
| Cooling—Med Low and Heating—High  | G (GR)    | —      | Y (YL) | —      | W (PR) |
| Cooling—Med High and Heating—Low  | G (GR)    | W (PR) | —      | Y (YL) | —      |
| Cooling—Med High and Heating—High | G (GR)    | —      | W (PR) | Y (YL) | —      |
| Cooling—High and Heating—Low      | G (GR)    | W (PR) | —      | —      | Y (YL) |
| Cooling—High and Heating—High     | G (GR)    | —      | W (PR) | —      | Y (YL) |

G signal (GR — green wire), Y signal (YL — yellow wire), W signal (PR — purple wire)

# Wiring Diagram

**Figure 1. 5YCC4024A – 42A1**





## Wiring Diagram

Figure 2. 5YCC4024A1 – 42A1

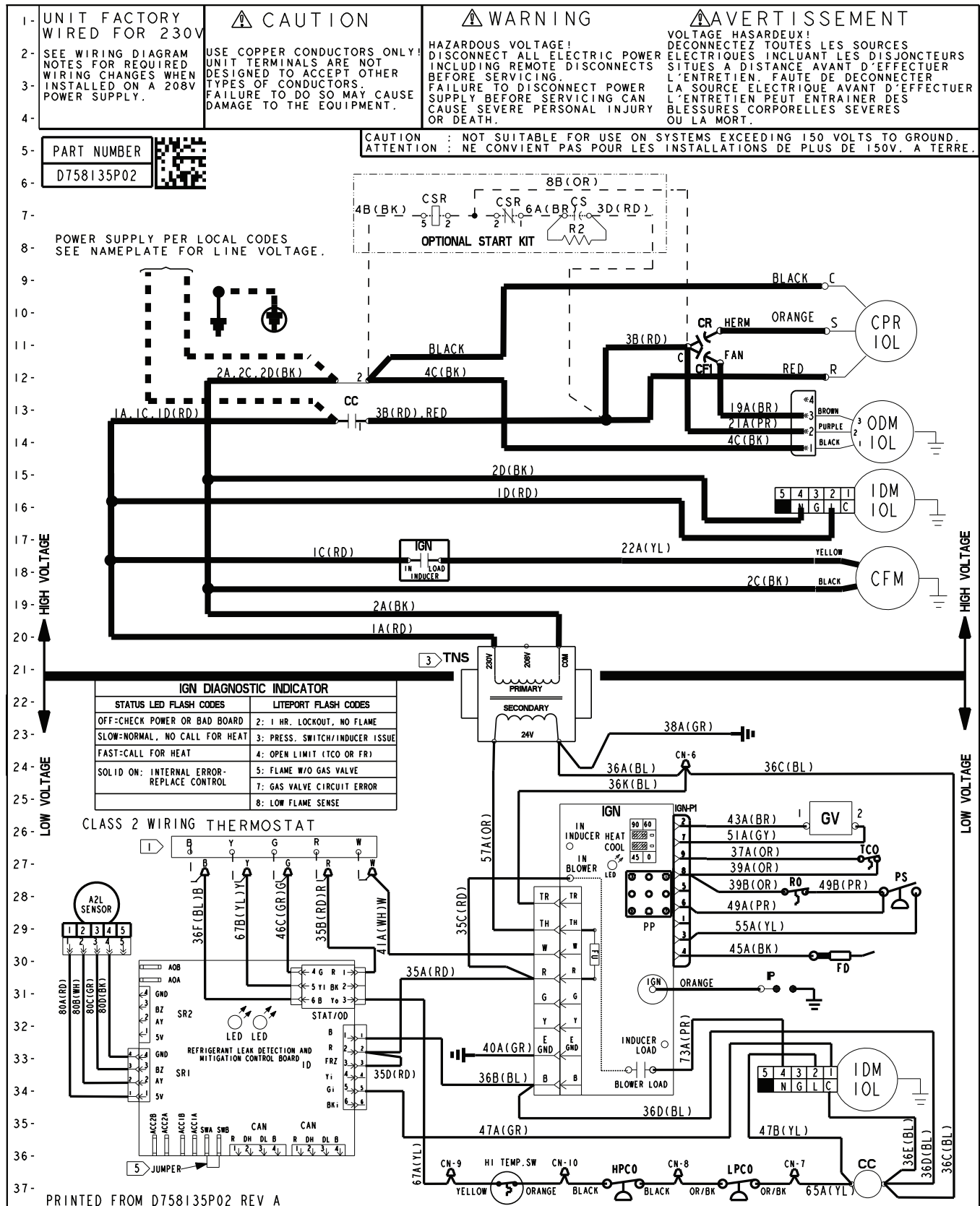
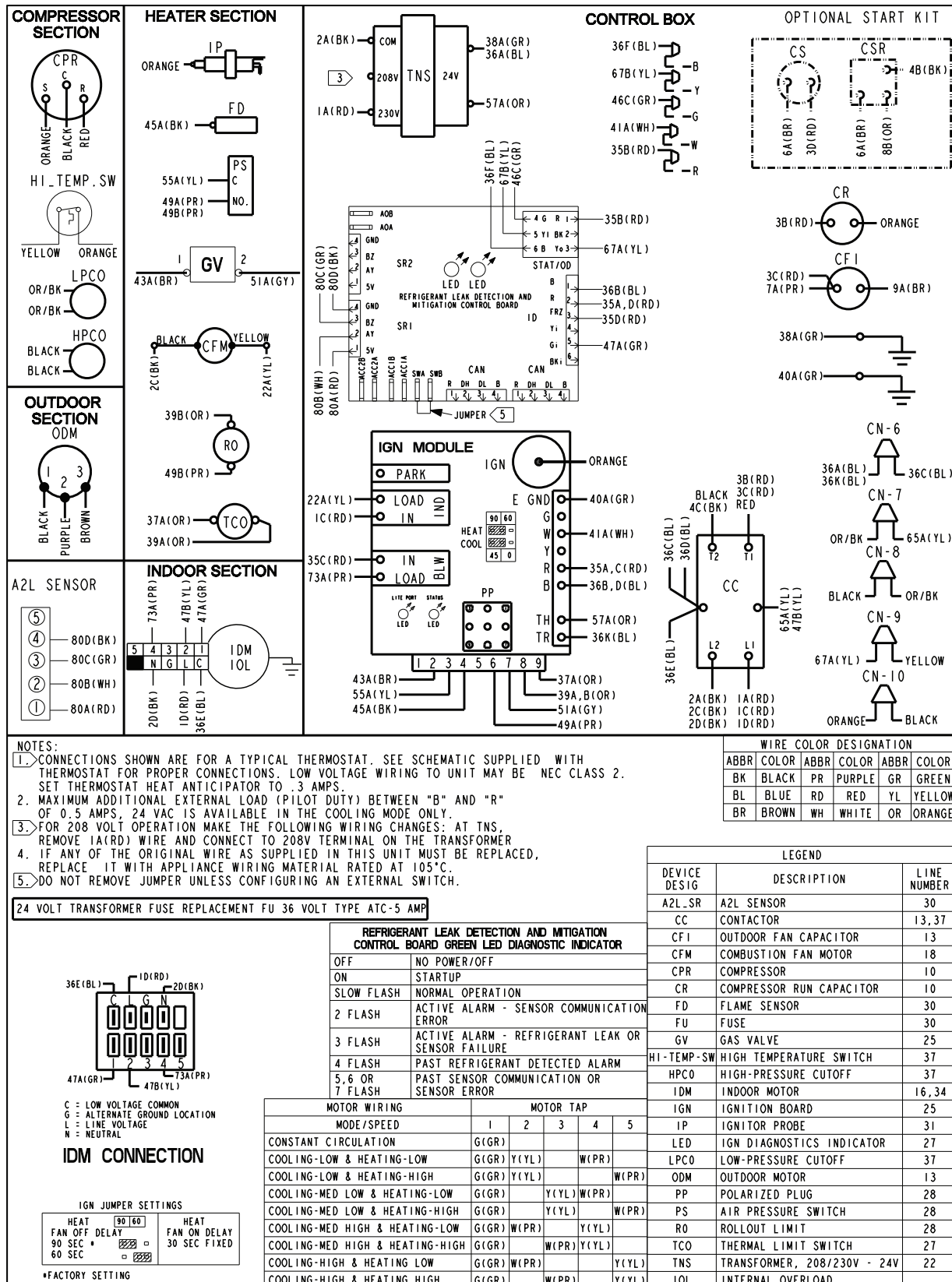


Figure 3. 5YCC4048A1





## Wiring Diagram

Figure 4. 5YCC4048A1

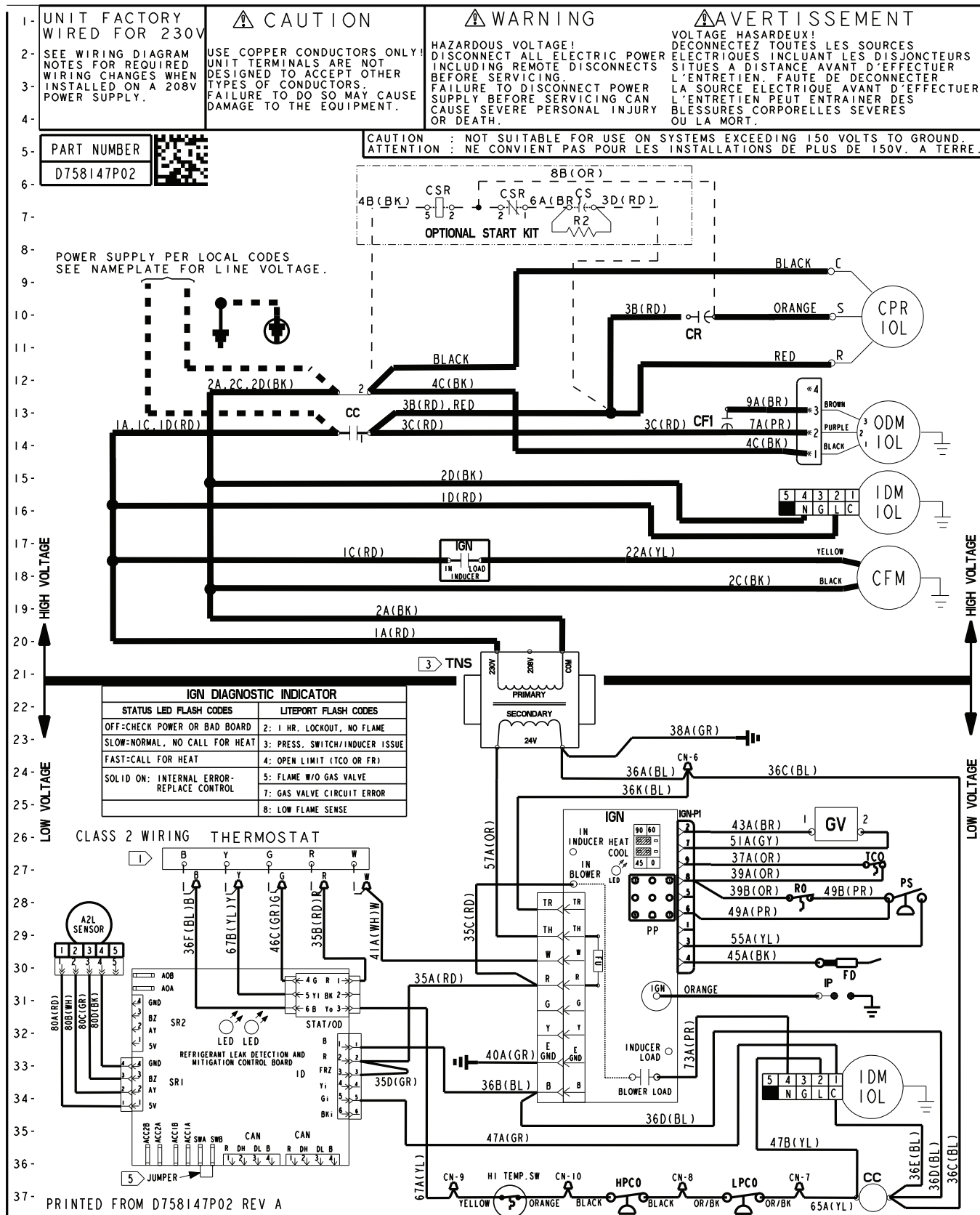
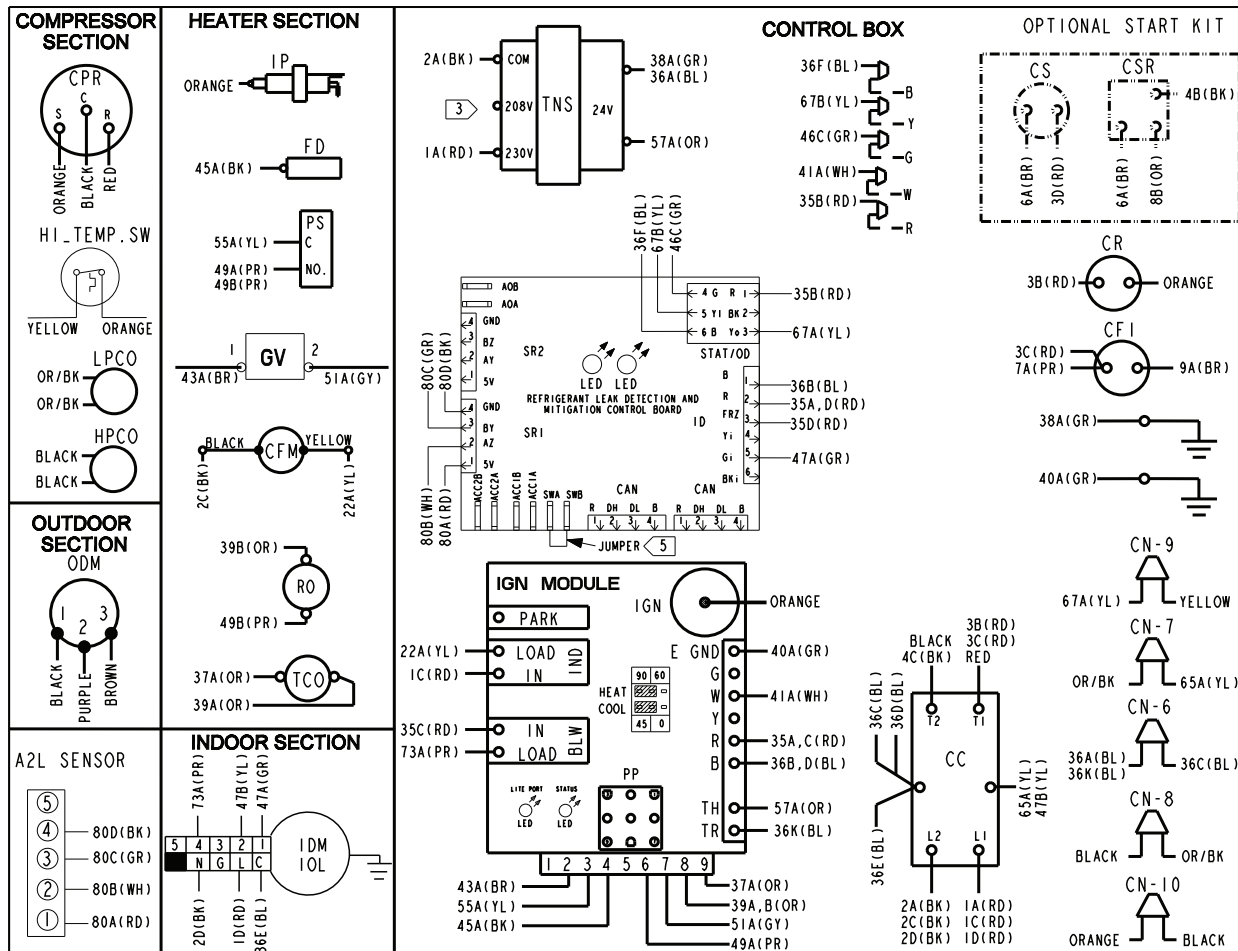


Figure 5. 5YCC4060A1

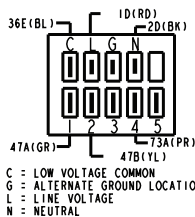


- NOTES:**
1. CONNECTIONS SHOWN ARE FOR A TYPICAL THERMOSTAT. SEE SCHEMATIC SUPPLIED WITH THERMOSTAT FOR PROPER CONNECTIONS. LOW VOLTAGE WIRING TO UNIT MAY BE NEC CLASS 2. SET THERMOSTAT HEAT ANTICIPATOR TO .3 AMPS.
  2. MAXIMUM ADDITIONAL EXTERNAL LOAD (PILOT DUTY) BETWEEN "B" AND "R" OF 0.5 AMPS, 24 VAC IS AVAILABLE IN THE COOLING MODE ONLY.
  3. FOR 208 VOLT OPERATION MAKE THE FOLLOWING WIRING CHANGES: AT TNS, REMOVE 1A(RD) WIRE AND CONNECT IT TO 208V TERMINAL ON THE TRANSFORMER.
  4. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED IN THIS UNIT MUST BE REPLACED, REPLACE IT WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
  5. DO NOT REMOVE JUMPER UNLESS CONFIGURING AN EXTERNAL SWITCH.

24 VOLT TRANSFORMER FUSE REPLACEMENT FU 36 VOLT TYPE ATC-5 AMP

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

## IDM CONNECTION



| IGN JUMPER SETTINGS |              |
|---------------------|--------------|
| HEAT                | 90 60        |
| FAN OFF DELAY       | 90 SEC *     |
| 90 SEC *            | HEAT         |
| 60 SEC              | FAN ON DELAY |
| 60 SEC              | 30 SEC FIXED |

\*FACTORY SETTING

## REFRIGERANT LEAK DETECTION AND MITIGATION CONTROL BOARD GREEN LED DIAGNOSTIC INDICATOR

|                 |                                                   |
|-----------------|---------------------------------------------------|
| OFF             | NO POWER/OFF                                      |
| ON              | STARTUP                                           |
| SLOW FLASH      | NORMAL OPERATION                                  |
| 2 FLASH         | ACTIVE ALARM - SENSOR COMMUNICATION ERROR         |
| 3 FLASH         | ACTIVE ALARM - REFRIGERANT LEAK OR SENSOR FAILURE |
| 4 FLASH         | PAST REFRIGERANT DETECTED ALARM                   |
| 5, 6 OR 7 FLASH | PAST SENSOR COMMUNICATION OR SENSOR ERROR         |

| MOTOR WIRING                |  | MOTOR TAP |       |       |       |       |
|-----------------------------|--|-----------|-------|-------|-------|-------|
| MODE/SPEED                  |  | 1         | 2     | 3     | 4     | 5     |
| CONSTANT CIRCULATION        |  | G(GR)     |       |       |       |       |
| COOLING-LOW & HEATING-LOW   |  | G(GR)     | Y(YL) |       | W(PR) |       |
| COOLING-LOW & HEATING-HIGH  |  | G(GR)     | Y(YL) |       | W(PR) |       |
| COOLING-MED & HEATING-LOW   |  | G(GR)     |       | Y(YL) | W(PR) |       |
| COOLING-MED & HEATING-HIGH  |  | G(GR)     |       | Y(YL) | W(PR) |       |
| COOLING-HIGH & HEATING-LOW  |  | G(GR)     |       |       | W(PR) | Y(YL) |
| COOLING-HIGH & HEATING-HIGH |  | G(GR)     |       |       | Y(YL) | W(PR) |

| LEGEND       |                             |             |
|--------------|-----------------------------|-------------|
| DEVICE DESIG | DESCRIPTION                 | LINE NUMBER |
| A2L-SR       | A2L SENSOR                  | 30          |
| CC           | CONTACTOR                   | 12, 37      |
| CFI          | OUTDOOR FAN CAPACITOR       | 13          |
| CFM          | COMBUSTION FAN MOTOR        | 17          |
| CPR          | COMPRESSOR                  | 10          |
| CR           | COMPRESSOR RUN CAPACITOR    | 10          |
| FD           | FLAME SENSOR                | 30          |
| FU           | FUSE                        | 30          |
| GV           | GAS VALVE                   | 25          |
| HI-TEMP-SW   | HIGH TEMPERATURE SWITCH     | 37          |
| HPCO         | HIGH-PRESSURE CUTOFF        | 37          |
| IDM          | INDOOR MOTOR                | 16, 34      |
| IGN          | IGNITION BOARD              | 25          |
| IP           | IGNITOR PROBE               | 31          |
| LED          | IGN DIAGNOSTICS INDICATOR   | 27          |
| LPCO         | LOW-PRESSURE CUTOFF         | 37          |
| ODM          | OUTDOOR MOTOR               | 13          |
| PP           | POLARIZED PLUG              | 28          |
| PS           | AIR PRESSURE SWITCH         | 28          |
| RO           | ROLLOUT LIMIT               | 28          |
| TCO          | THERMAL LIMIT SWITCH        | 27          |
| TNS          | TRANSFORMER, 208/230V - 24V | 22          |
| IOL          | INTERNAL OVERLOAD           |             |



**UNIT FACTORY WIRED FOR 230V**

**SEE WIRING DIAGRAM NOTES FOR REQUIRED WIRING CHANGES WHEN INSTALLED ON A 208V POWER SUPPLY.**

**USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS. FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.**

**HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING. FAILURE TO DISCONNECT POWER SUPPLY BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.**

**VOLTAGE HASARDEUX! DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES INCLUANT LES DISJONCTEURS SITUES A DISTANCE AVANT D'EFFECTUER L'ENTRETIEN. FAUTE DE DECONNECTER LA SOURCE ELECTRIQUE AVANT D'EFFECTUER L'ENTRETIEN PEUT ENTRAINER DES BLESSURES CORPORELLES SEVERES OU LA MORT.**

**CAUTION : NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150 VOLTS TO GROUND. ATTENTION : NE CONVIENT PAS POUR LES INSTALLATIONS DE PLUS DE 150V. A TERRE.**

**PART NUMBER**  
D758148P02

**POWER SUPPLY PER LOCAL CODES SEE NAMEPLATE FOR LINE VOLTAGE.**

**OPTIONAL START KIT**

**IGN DIAGNOSTIC INDICATOR**

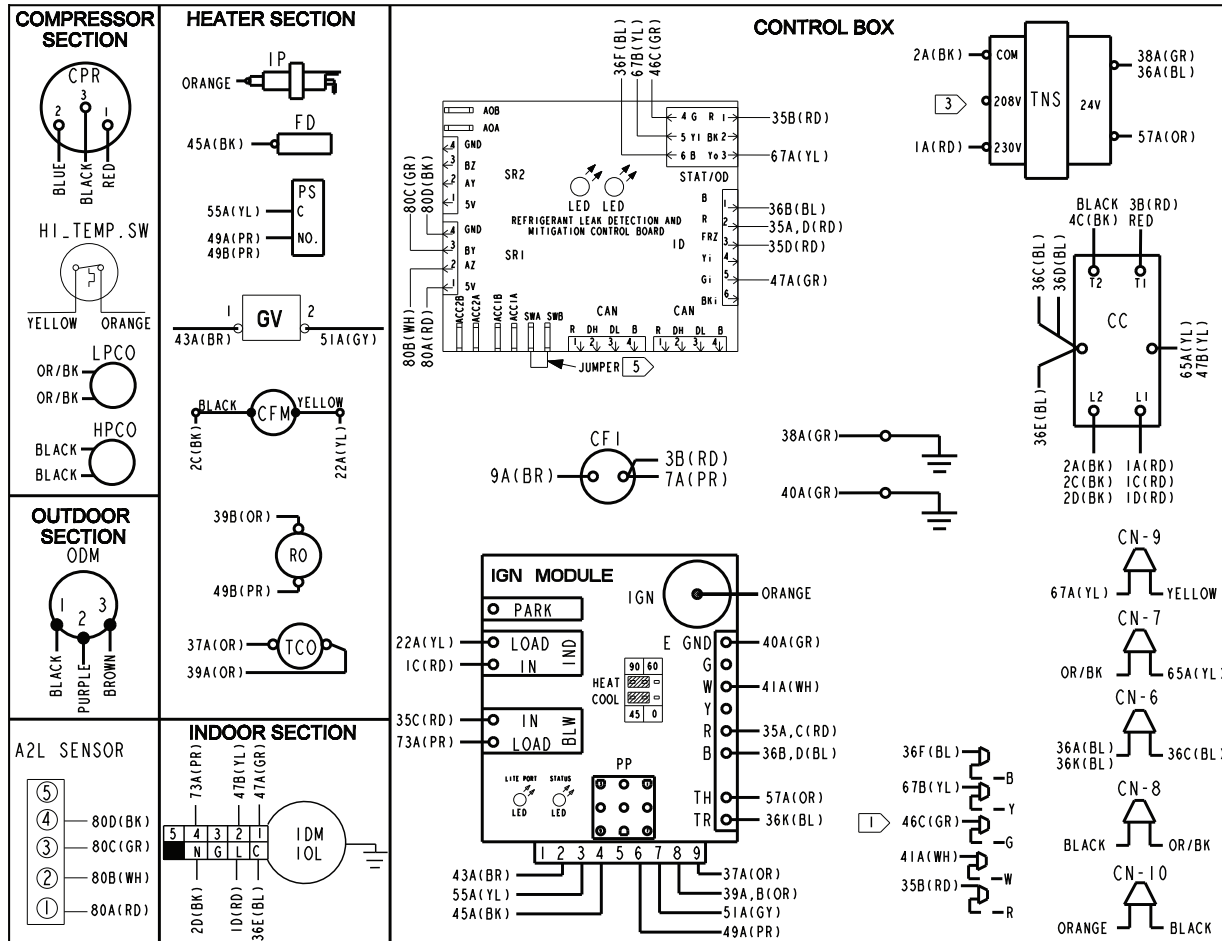
| STATUS LED FLASH CODES                   | LITEPORT FLASH CODES           |
|------------------------------------------|--------------------------------|
| OFF-CHECK POWER OR BAD BOARD             | 2: 1 HR. LOCKOUT, NO FLAME     |
| SLOW-NORMAL, NO CALL FOR HEAT            | 3: PRESS. SWITCH/INDUCER ISSUE |
| FAST-CALL FOR HEAT                       | 4: OPEN LIMIT (TCO OR FR)      |
| SOLID ON: INTERNAL ERROR-REPLACE CONTROL | 5: FLAME W/O GAS VALVE         |
|                                          | 7: GAS VALVE CIRCUIT ERROR     |
|                                          | 8: LOW FLAME SENSE             |

**CLASS 2 WIRING THERMOSTAT**

**REFRIGERANT LEAK DETECTION AND MITIGATION CONTROL BOARD**

**PRINTED FROM D758148P02 REV A**

Figure 7. 5YCC4036A3 – 60A3

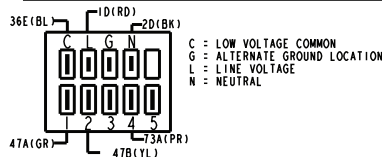


## NOTES:

- 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. SET THERMOSTAT HEAT ANTICIPATOR TO .3 AMPS.
- MAXIMUM ADDITIONAL EXTERNAL LOAD (PILOT DUTY) BETWEEN "B" AND "R" OF 0.5 AMPS, 24 VAC IS AVAILABLE IN THE COOLING MODE ONLY.
- FOR 208 VOLT OPERATION MAKE THE FOLLOWING WIRING CHANGES: AT TNS, REMOVE 1A(RD) WIRE AND CONNECT TO 208V TERMINAL ON THE TRANSFORMER
- IF ANY OF THE ORIGINAL WIRE AS SUPPLIED IN THIS UNIT MUST BE REPLACED, REPLACE IT WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
- DO NOT REMOVE JUMPER UNLESS CONFIGURING AN EXTERNAL SWITCH.

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

24 VOLT TRANSFORMER FUSE REPLACEMENT FU 36 VOLT TYPE ATC-5 AMP



## IDM CONNECTION

| REFRIGERANT LEAK DETECTION AND MITIGATION CONTROL BOARD GREEN LED DIAGNOSTIC INDICATOR |                                                   |
|----------------------------------------------------------------------------------------|---------------------------------------------------|
| OFF                                                                                    | NO POWER/OFF                                      |
| ON                                                                                     | STARTUP                                           |
| SLOW FLASH                                                                             | NORMAL OPERATION                                  |
| 2 FLASH                                                                                | ACTIVE ALARM - SENSOR COMMUNICATION ERROR         |
| 3 FLASH                                                                                | ACTIVE ALARM - REFRIGERANT LEAK OR SENSOR FAILURE |
| 4 FLASH                                                                                | PAST REFRIGERANT DETECTED ALARM                   |
| 5, 6 OR 7 FLASH                                                                        | PAST SENSOR COMMUNICATION OR SENSOR ERROR         |

| MOTOR WIRING                |             | MOTOR TAP |   |   |   |   |
|-----------------------------|-------------|-----------|---|---|---|---|
| MODE/SPEED                  |             | 1         | 2 | 3 | 4 | 5 |
| CONSTANT CIRCULATION        | G(GR)       |           |   |   |   |   |
| COOLING-LOW & HEATING-LOW   | G(GR) Y(YL) |           |   |   |   |   |
| COOLING-LOW & HEATING-HIGH  | G(GR) Y(YL) |           |   |   |   |   |
| COOLING-MED & HEATING-LOW   | G(GR)       |           |   |   |   |   |
| COOLING-MED & HEATING-HIGH  | G(GR) Y(YL) |           |   |   |   |   |
| COOLING-HIGH & HEATING-LOW  | G(GR)       |           |   |   |   |   |
| COOLING-HIGH & HEATING-HIGH | G(GR) Y(YL) |           |   |   |   |   |

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

| LEGEND       |                             |             |
|--------------|-----------------------------|-------------|
| DEVICE DESIG | DESCRIPTION                 | LINE NUMBER |
| A2L_SR       | A2L SENSOR                  | 30          |
| CC           | CONTACTOR                   | 10, 37      |
| CFI          | OUTDOOR FAN CAPACITOR       | 13          |
| CFM          | COMBUSTION FAN MOTOR        | 17          |
| CPR          | COMPRESSOR                  | 10          |
| FD           | FLAME SENSOR                | 30          |
| FU           | FUSE                        | 30          |
| GV           | GAS VALVE                   | 25          |
| HI-TEMP-SW   | HIGH TEMPERATURE SWITCH     | 37          |
| HPCO         | HIGH-PRESSURE CUTOFF        | 37          |
| IDM          | INDOOR MOTOR                | 16, 34      |
| IGN          | IGNITION BOARD              | 25          |
| IP           | IGNITOR PROBE               | 31          |
| LED          | IGN DIAGNOSTICS INDICATOR   | 27          |
| LPCO         | LOW-PRESSURE CUTOFF         | 37          |
| ODM          | OUTDOOR MOTOR               | 13          |
| PP           | POLARIZED PLUG              | 28          |
| PS           | AIR PRESSURE SWITCH         | 28          |
| RO           | ROLLOUT LIMIT               | 28          |
| TCO          | THERMAL LIMIT SWITCH        | 27          |
| TNS          | TRANSFORMER, 208/230V - 24V | 22          |
| IOL          | INTERNAL OVERLOAD           |             |



## Wiring Diagram

Figure 8. 5YCC4036A3 – 60A3

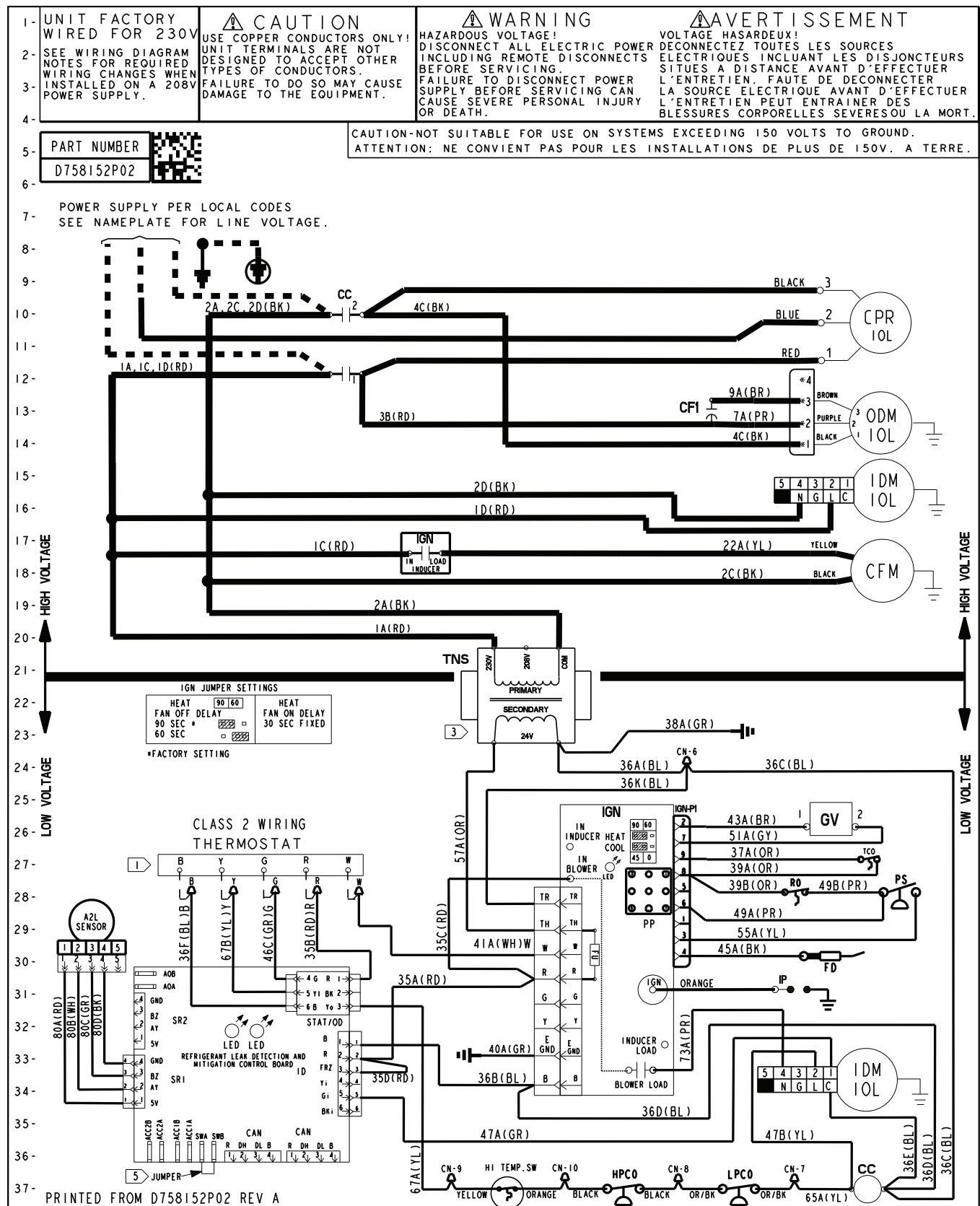
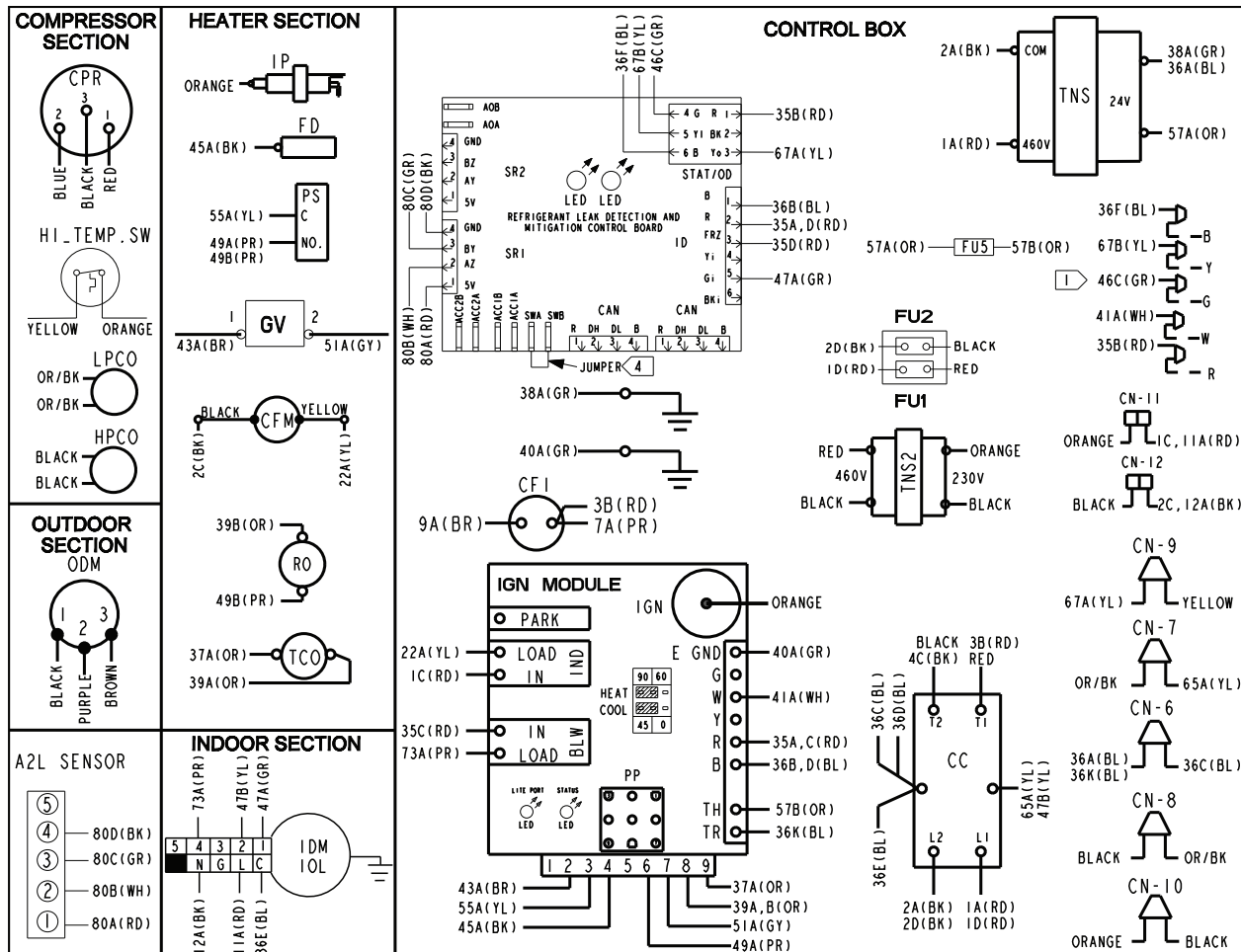


Figure 9. 5YCC4036A4 - 48A4



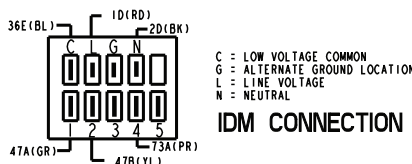
- NOTES:**
1. CONNECTIONS SHOWN ARE FOR A TYPICAL THERMOSTAT. SEE SCHEMATIC SUPPLIED WITH THERMOSTAT FOR PROPER CONNECTIONS. LOW VOLTAGE WIRING TO UNIT MAY BE NEC CLASS 2. SET THERMOSTAT HEAT ANTICIPATOR TO .3 AMPS.
  2. MAXIMUM ADDITIONAL EXTERNAL LOAD (PILOT DUTY) BETWEEN "B" AND "R" OF 0.5 AMPS, 24 VAC IS AVAILABLE IN THE COOLING MODE ONLY.
  3. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED IN THIS UNIT MUST BE REPLACED, REPLACE IT WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
  4. DO NOT REMOVE JUMPER UNLESS CONFIGURING AN EXTERNAL SWITCH.

ICM TRANSFORMER REPLACEMENT FUSE : FU1, FU2 500 VOLT TYPE FNO - 6 AMP  
24VOLT TRANSFORMER REPLACEMENT FUSE : FU5 300 VOLT TYPE GQM - 3.2 AMP  
FU 36 VOLT TYPE ATC-5AMP

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

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

| REFRIGERANT LEAK DETECTION AND MITIGATION CONTROL BOARD GREEN LED DIAGNOSTIC INDICATOR |                                                   |
|----------------------------------------------------------------------------------------|---------------------------------------------------|
| OFF                                                                                    | NO POWER/OFF                                      |
| ON                                                                                     | STARTUP                                           |
| SLOW FLASH                                                                             | NORMAL OPERATION                                  |
| 2 FLASH                                                                                | ACTIVE ALARM - SENSOR COMMUNICATION ERROR         |
| 3 FLASH                                                                                | ACTIVE ALARM - REFRIGERANT LEAK OR SENSOR FAILURE |
| 4 FLASH                                                                                | PAST REFRIGERANT DETECTED ALARM                   |
| 5, 6 OR 7 FLASH                                                                        | PAST SENSOR COMMUNICATION OR SENSOR ERROR         |



| IGN DIAGNOSTIC INDICATOR                 |                                | MOTOR WIRING                |       | MOTOR TAP |       |
|------------------------------------------|--------------------------------|-----------------------------|-------|-----------|-------|
| STATUS LED FLASH CODES                   | LITEPORT FLASH CODES           | MODE/SPEED                  | 1     | 2         | 3     |
| OFF=CHECK POWER OR BAD BOARD             | 2: 1 HR. LOCKOUT, NO FLAME     | CONSTANT CIRCULATION        | G(GR) | Y(YL)     | W(PR) |
| SLOW=NORMAL, NO CALL FOR HEAT            | 3: PRESS. SWITCH/INDUCER ISSUE | COOLING-LOW & HEATING-LOW   | G(GR) | Y(YL)     | W(PR) |
| FAST=CALL FOR HEAT                       | 4: OPEN LIMIT (TCO OR FR)      | COOLING-LOW & HEATING-HIGH  | G(GR) | Y(YL)     | W(PR) |
| SOLID ON: INTERNAL ERROR-REPLACE CONTROL | 5: FLAME W/O GAS VALVE         | COOLING-MED & HEATING-LOW   | G(GR) | Y(YL)     | W(PR) |
|                                          | 7: GAS VALVE CIRCUIT ERROR     | COOLING-MED & HEATING-HIGH  | G(GR) | Y(YL)     | W(PR) |
|                                          | 8: LOW FLAME SENSE             | COOLING-HIGH & HEATING-LOW  | G(GR) | Y(YL)     | W(PR) |
|                                          |                                | COOLING-HIGH & HEATING-HIGH | G(GR) | Y(YL)     | W(PR) |

| LEGEND       |                            |             |
|--------------|----------------------------|-------------|
| DEVICE DESIG | DESCRIPTION                | LINE NUMBER |
| A2L_SR       | A2L SENSOR                 | 30          |
| CC           | CONTACTOR                  | 37          |
| CF1          | OUTDOOR FAN CAPACITOR      | 10,13       |
| CFM          | COMBUSTION FAN MOTOR       | 17          |
| CPR          | COMPRESSOR                 | 10          |
| FD           | FLAME SENSOR               | 30          |
| FU           | FUSE, IGN BOARD            | 30          |
| FU1          | FUSE, AUTO TRANSFORMER     | 15          |
| FU2          | FUSE, AUTO TRANSFORMER     | 16          |
| FU5          | FUSE, 24V TRANSFORMER      | 24          |
| GV           | GAS VALVE                  | 25          |
| HI-TEMP-SW   | HIGH TEMPERATURE SWITCH    | 37          |
| HPCO         | HIGH-PRESSURE CUTOFF       | 37          |
| IDM          | INDOOR MOTOR               | 16, 34      |
| IGN          | IGNITION BOARD             | 25          |
| IP           | IGNITOR PROBE              | 31          |
| LED          | IGN DIAGNOSTICS INDICATOR  | 27          |
| LPCO         | LOW-PRESSURE CUTOFF        | 37          |
| ODM          | OUTDOOR MOTOR              | 13          |
| PP           | POLARIZED PLUG             | 28          |
| PS           | AIR PRESSURE SWITCH        | 28          |
| R0           | ROLLOUT LIMIT              | 28          |
| TCO          | THERMAL LIMIT SWITCH       | 27          |
| TNS          | TRANSFORMER, 460V - 24V    | 22          |
| TNS2         | 460V/230V AUTO TRANSFORMER | 15          |
| IOI          | INTERNAL OVERLOAD          |             |
| CN           | CONNECTOR OR WIRE NUT      |             |



## Wiring Diagram

Figure 10. 5YCC4036A4 - 48A4

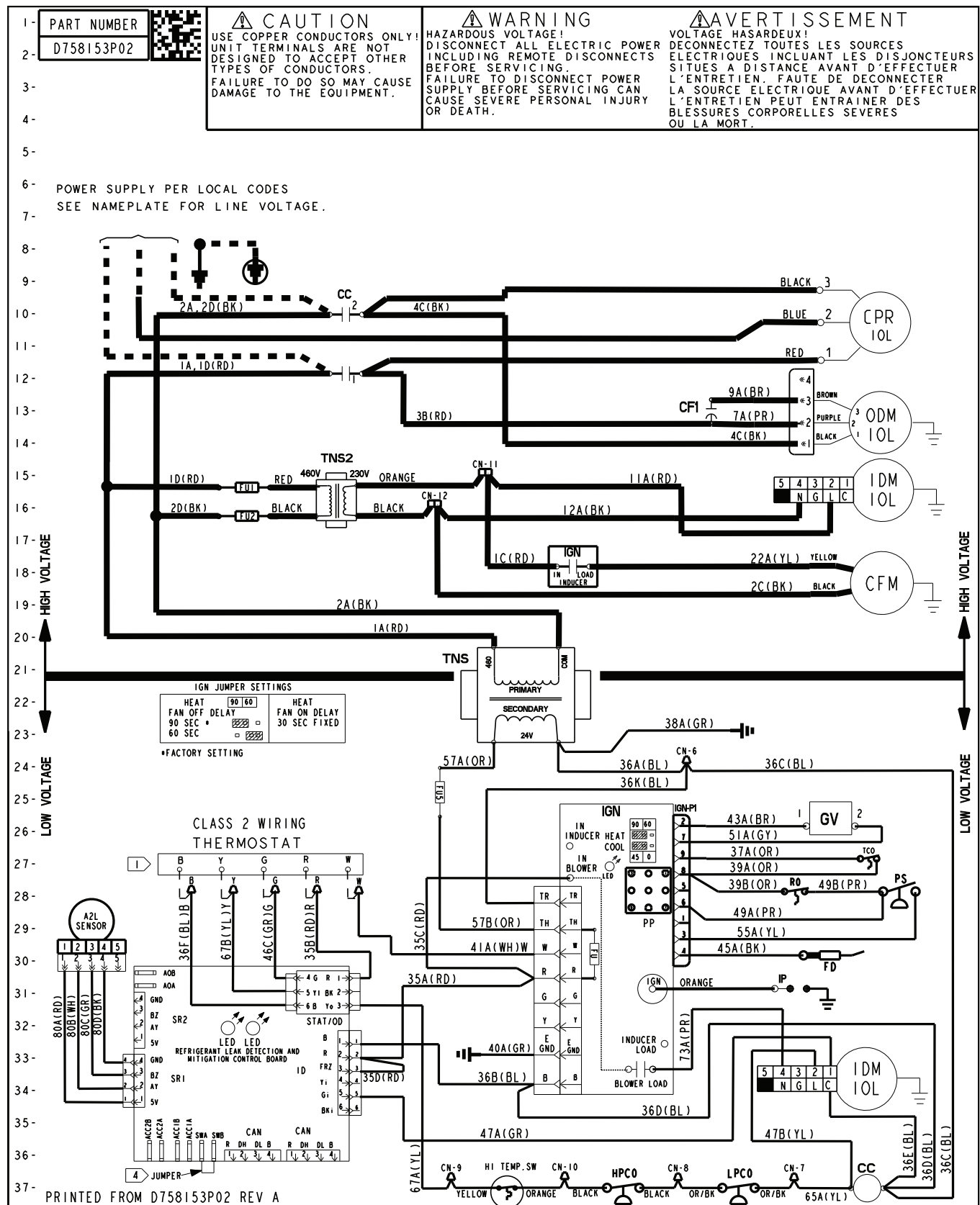


Figure 11. 5YCC4060A4

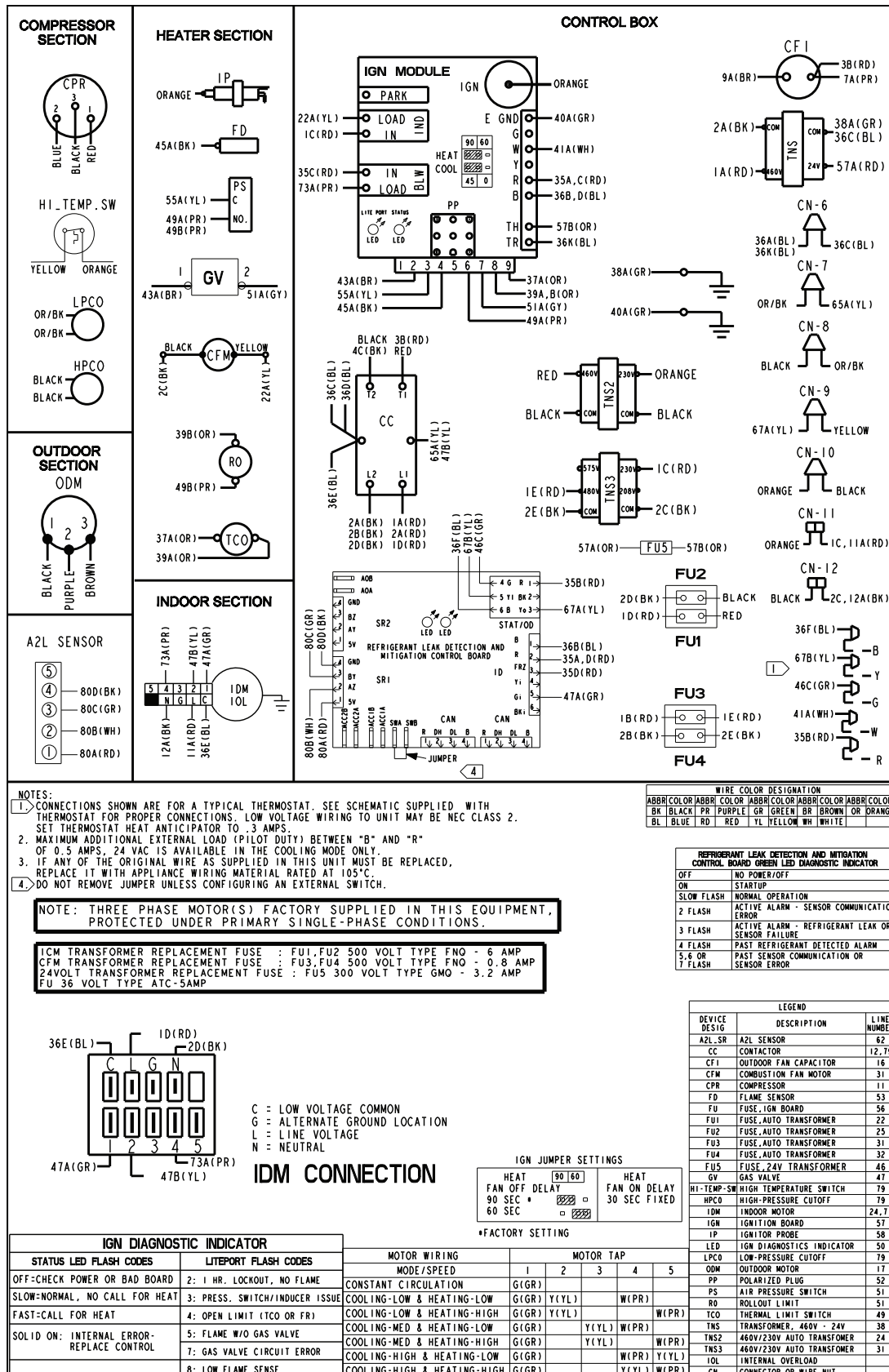
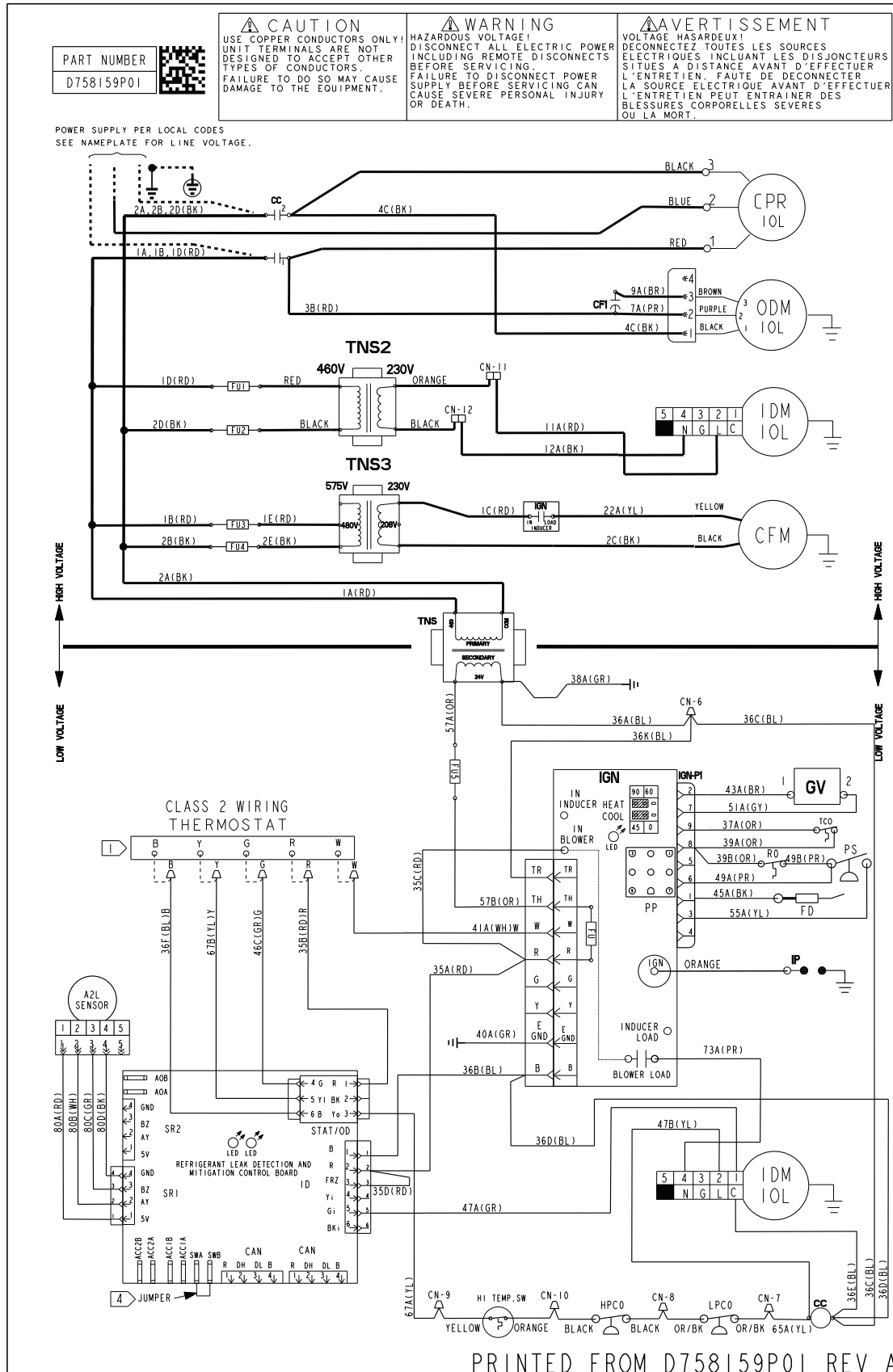


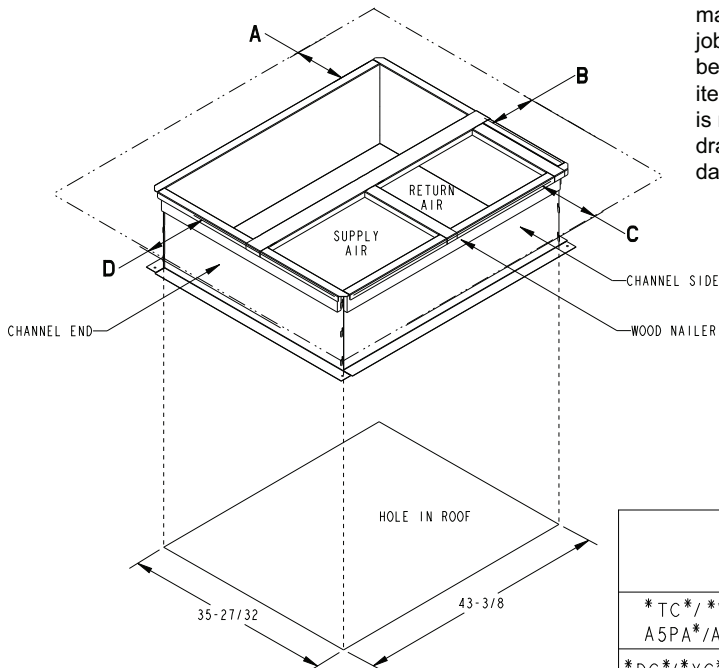
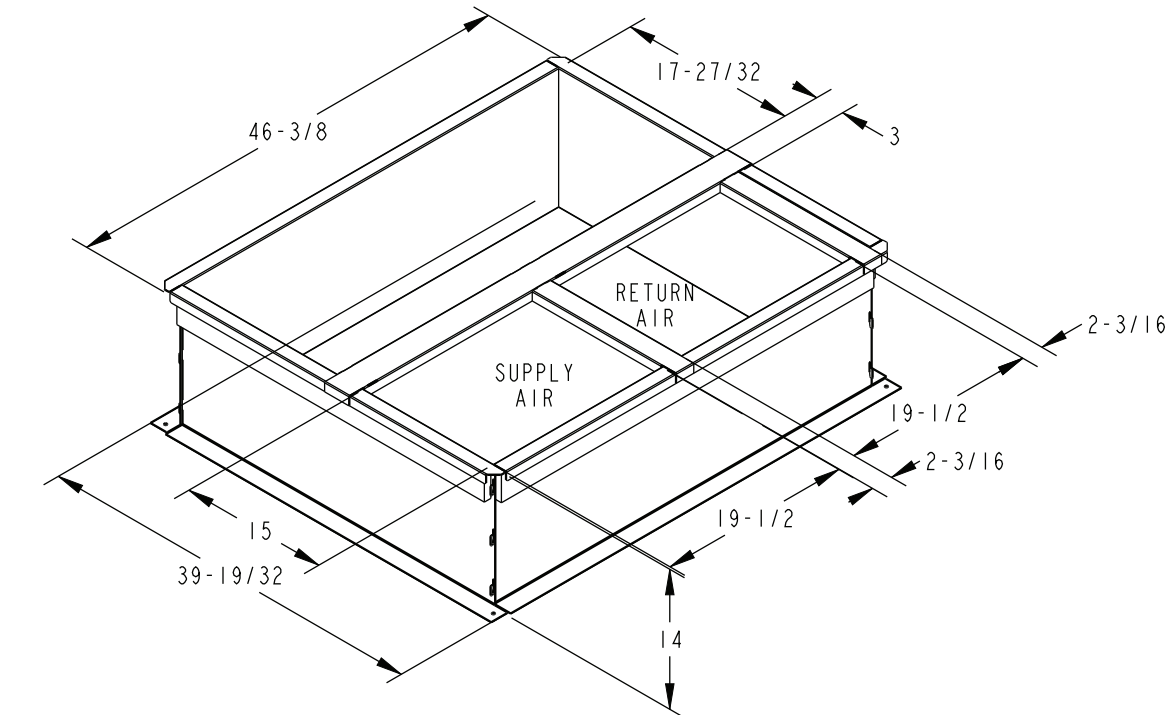
Figure 12. 5YCC4060A4



# Full Perimeter Roof Mounting Curb

Figure 13. 2.0 to 3.0 ton models

## BAYCURB050B Full Perimeter Roof Mounting Curb



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All dimensions are in inches

|                           | SERVICE CLEARANCE DIMENSIONS |       |         |       |
|---------------------------|------------------------------|-------|---------|-------|
|                           | A                            | B     | C       | D     |
| *TC*/*WC*/<br>A5PA*/A5PH* | 42.00                        | 36.00 | 12.00** | 24.00 |
| *DC*/*YC*/A5PG*           | 42.00                        | 36.00 | 12.00** | 36.00 |

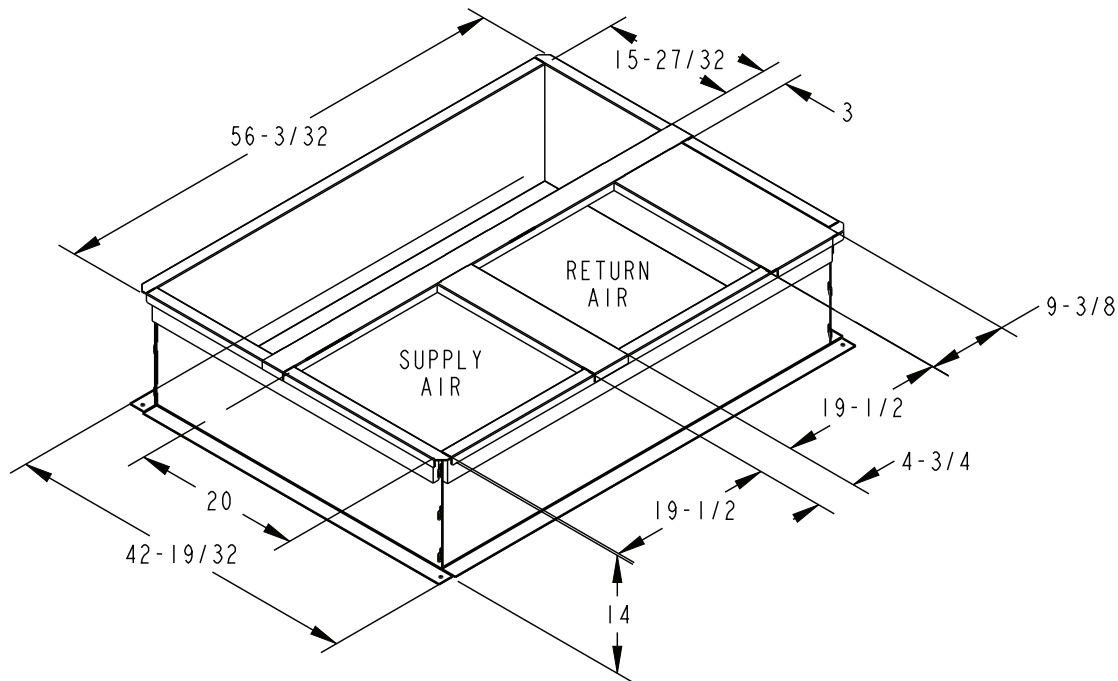
\*\* 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY



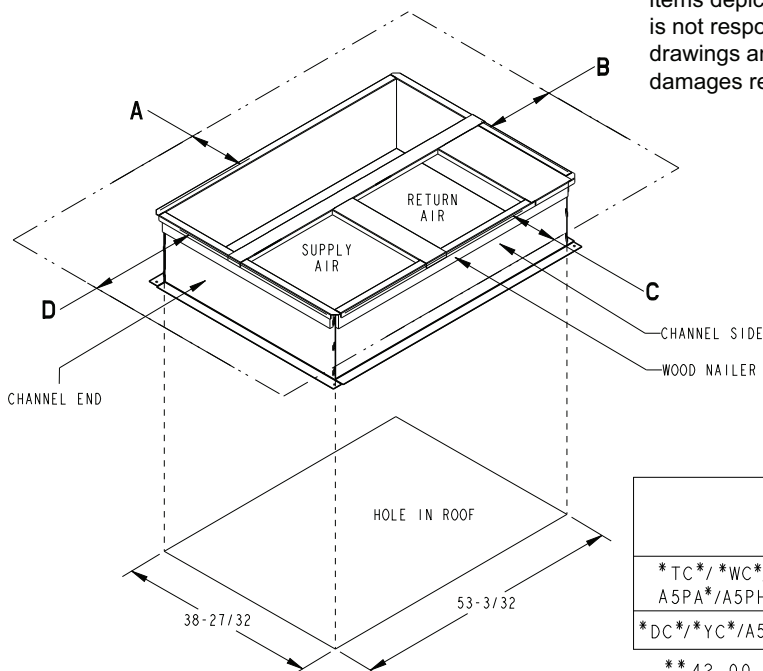
## Full Perimeter Roof Mounting Curb

Figure 14. 3.5 to 5.0 ton models

### BAYCURB051B Full Perimeter Roof Mounting Curb



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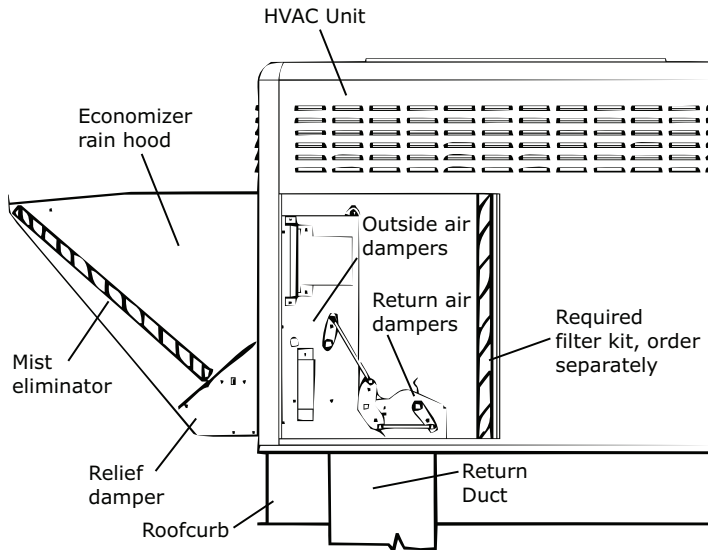
All dimensions are in inches

|                           | SERVICE CLEARANCE DIMENSIONS |       |         |       |
|---------------------------|------------------------------|-------|---------|-------|
|                           | A                            | B     | C       | D     |
| *TC*/*WC*/<br>A5PA*/A5PH* | 42.00                        | 36.00 | 12.00** | 24.00 |
| *DC*/*YC*/A5PG*           | 42.00                        | 36.00 | 12.00** | 36.00 |

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

## Optional Equipment — Economizer

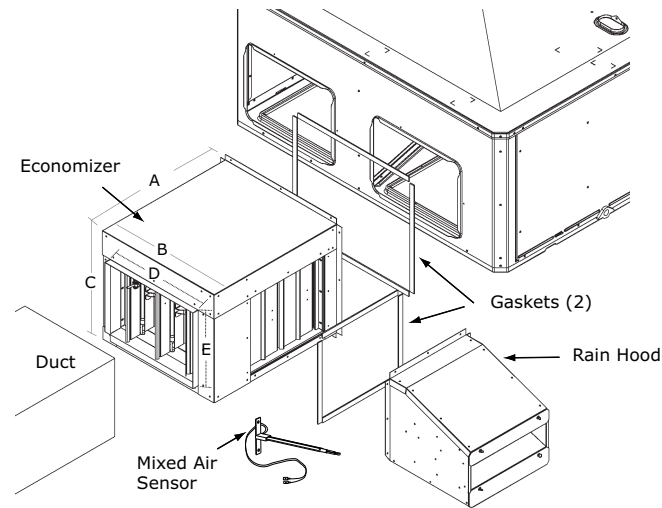
**Figure 15. BAYECON105,106A down discharge economizer and rain hood (Mounts over horizontal return air opening)**



**Table 18. Economizer application models**

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

**Figure 16. BAYCON205, 206A horizontal economizer and rain hood**



**Table 19. Economizer dimension (in inches)**

| Economizer  | Models         | A  | B        | C      | D        | E        | F      |
|-------------|----------------|----|----------|--------|----------|----------|--------|
| BAYECON205A | 2.0 to 3.0 Ton | 22 | 20       | 16–7/8 | 15–11/16 | 11–11/16 | 15     |
| BAYECON206A | 3.5 to 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

Figure 17. BAYOSAH001 and BAYOSAH002A outside air damper (Replaces filter/coil access panel)

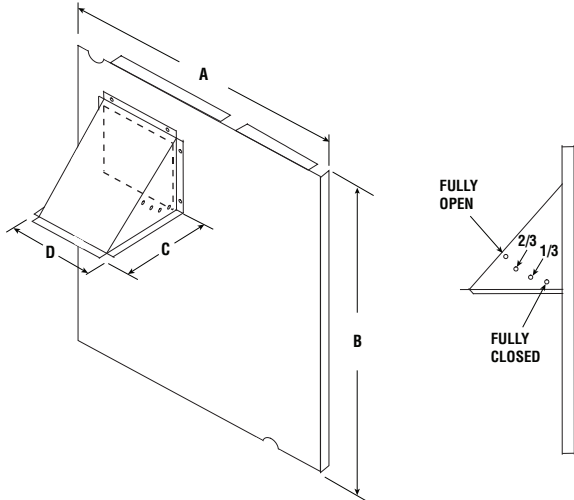


Table 20. Outside air damper dimensions (in inches)

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

Figure 18. BAYDMPR101 and BAYDMPR102A, 25% motorized outside air damper (Mounts over horizontal return air opening)

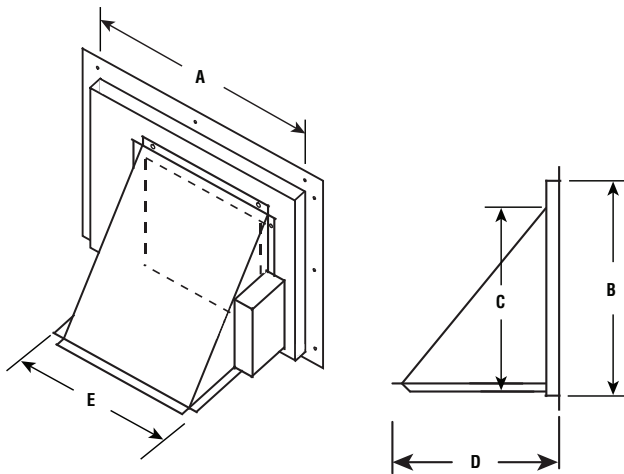


Table 21. Outside air damper dimensions (in inches)

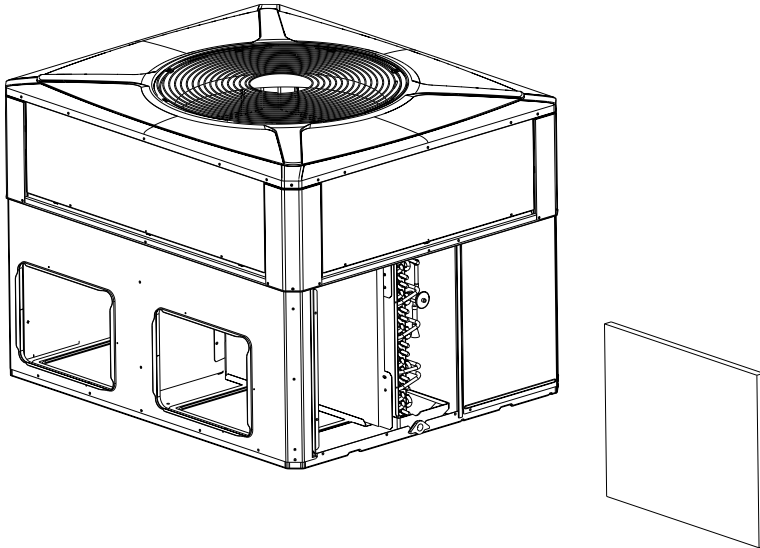
| Manual Fresh Air Model | Unit Application Models | A        | B        | C      | D      | E      |
|------------------------|-------------------------|----------|----------|--------|--------|--------|
| BAYDMPR101A            | 2.0 to 3.0 Ton          | 15-13/16 | 11-13/16 | 10-1/4 | 11-1/2 | 12-1/4 |
| BAYDMPR102A            | 3.5 to 5.0 Ton          | 18-3/16  | 15-1/8   | 10-1/4 | 11-1/2 | 12-1/4 |

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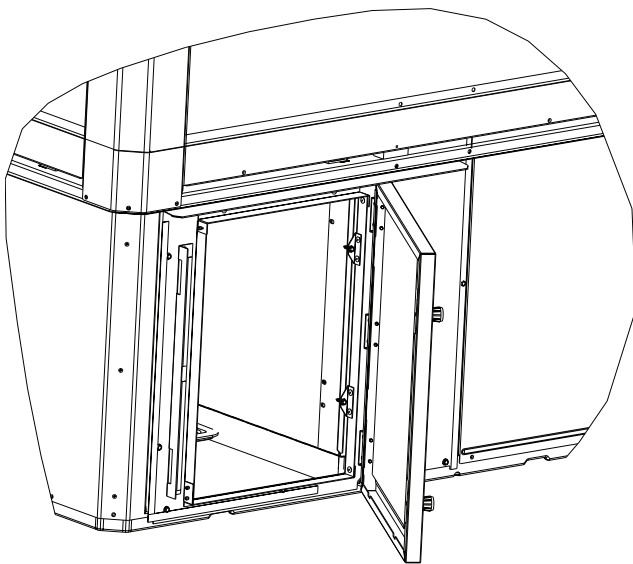


## Optional Equipment — Filter Rack

**Figure 19.** BAYFLTR101 filter rack (2.0 to 3.0 ton models)/ BAYFLTR201 (3.5 to 5.0 ton models) (Mounts in filter/coil section)



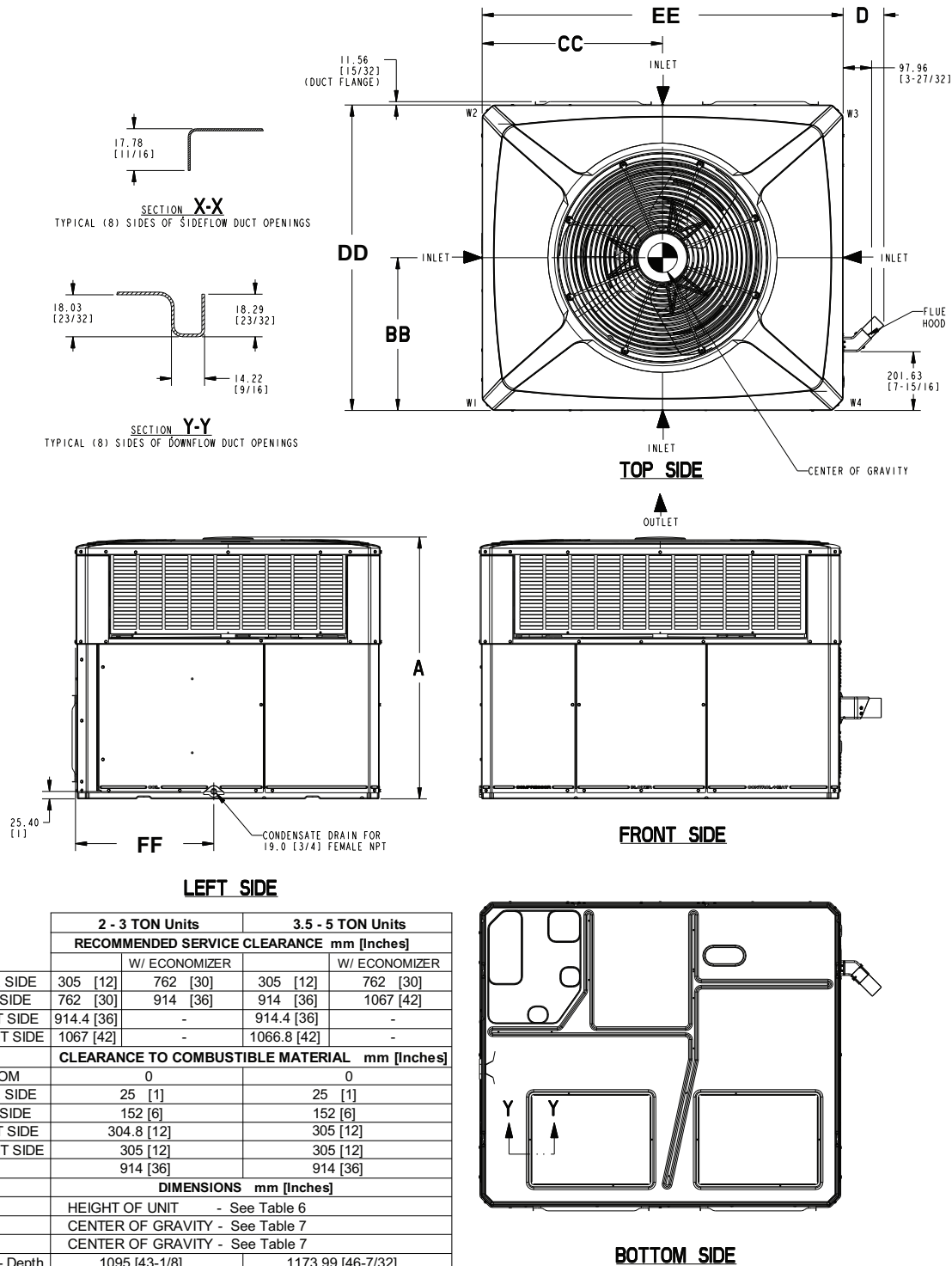
**Figure 20.** BAYACCDOR1A hinged filter access door (2.0 to 3.0 ton models)/ BAYACCDOR2A (3.5 to 5.0 ton models) (Replaces filter/coil access panel)



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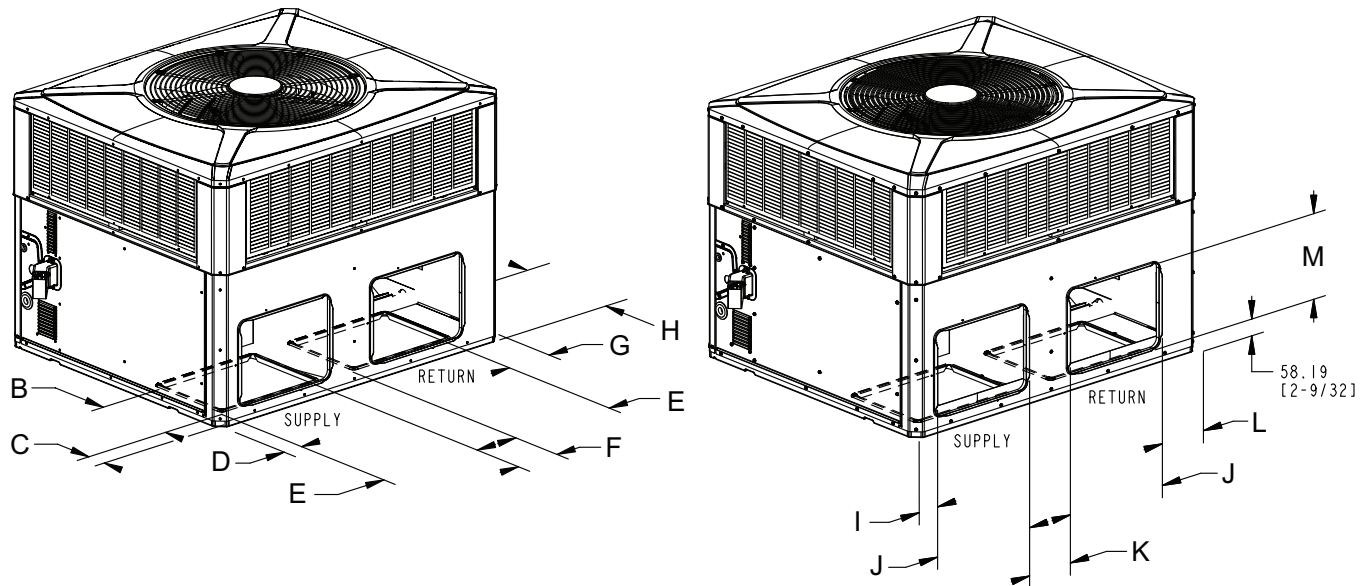
# Dimensional Data

**Figure 21. Space on sides requirements**



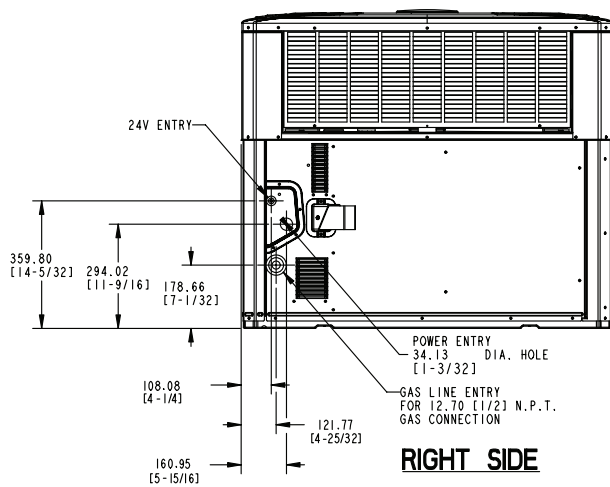
*Note: The view labeled "Bottom side" represents the base as viewed looking up from underneath the unit.*

Figure 22. Bottom and back duct openings

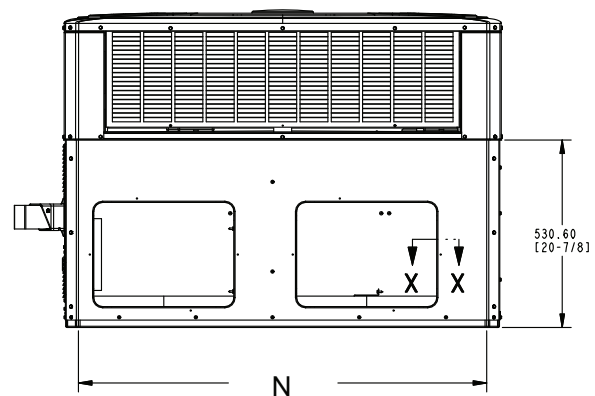


**BOTTOM DUCT OPENINGS**

**BACK DUCT OPENINGS**



**RIGHT SIDE**



**BACK SIDE**

Table 22. Dimensions (mm [inch])

| Model    | Height-A            | B              | C               | D               | E              | F                | G                 | H              | I               | J                 | K                | L                 | M                 | N                  |
|----------|---------------------|----------------|-----------------|-----------------|----------------|------------------|-------------------|----------------|-----------------|-------------------|------------------|-------------------|-------------------|--------------------|
| 5YCC4024 | 898.53<br>[35-3/8]  | 304.80<br>[12] | 75.41<br>[2.93] | 75.41<br>[2.93] | 406.40<br>[16] | 167.89<br>[6.61] | 173.46<br>[6.84]  | 304.80<br>[12] | 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] |
| 5YCC4030 | 949.33<br>[37-3/8]  |                |                 |                 |                |                  |                   |                |                 |                   |                  |                   |                   |                    |
| 5YCC4036 |                     |                |                 |                 |                |                  |                   |                |                 |                   |                  |                   |                   |                    |
| 5YCC4042 | 898.53<br>[35-3/8]  | 457.20<br>[18] | 75.41<br>[2.97] | 75.41<br>[2.97] | 381.00<br>[15] | 244.09<br>[9.61] | 318.75<br>[12.55] | 381.00<br>[15] | 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] |
| 5YCC4048 | 1000.13<br>[35-3/8] |                |                 |                 |                |                  |                   |                |                 |                   |                  |                   |                   |                    |
| 5YCC4060 |                     |                |                 |                 |                |                  |                   |                |                 |                   |                  |                   |                   |                    |

## Dimensional Data

**Table 23. Weights and center of gravity**

| Model            | Corner Weights KG[LBS] |            |           |            | SHIPPING<br>WEIGHT KG<br>[LBS] | UNIT WEIGHT<br>KG[LBS] | Center Of Gravity mm[inch] |              |
|------------------|------------------------|------------|-----------|------------|--------------------------------|------------------------|----------------------------|--------------|
|                  | W1                     | W2         | W3        | W4         |                                |                        | BB                         | CC           |
| 5YCC4024*1       | 60.3 [133]             | 36.8 [81]  | 26.1 [58] | 41.0 [90]  | 197.8 [436]                    | 164.2 [362]            | 479 [18.9]                 | 527.8 [20.8] |
| 5YCC4030*1       | 63.5 [140]             | 38.7 [85]  | 27.5 [61] | 43.1 [95]  | 206.4 [455]                    | 172.8 [381]            | 406.5 [16]                 | 594.1 [23.4] |
| 5YCC4036*1 (070) | 63.3 [140]             | 38.3 [84]  | 27.1 [60] | 43.2 [95]  | 200.9 [443]                    | 171.9 [379]            | 414.3 [16.3]               | 697.6 [27.5] |
| 5YCC4036*1 (090) | 63.8 [141]             | 38.9 [86]  | 27.7 [61] | 43.7 [66]  | 207.7 [458]                    | 174.2 [384]            | 414.3 [16.3]               | 697.6 [27.5] |
| 5YCC4042*1 (060) | 62.2 [137]             | 46.6 [103] | 34.6 [76] | 53.1 [117] | 253.2 [558]                    | 206.5 [455]            | 470.0 [18.5]               | 731.0 [28.8] |
| 5YCC4042*1 (090) | 72.8 [160]             | 47.2 [104] | 35.2 [78] | 53.6 [118] | 256.0 [564]                    | 208.8 [460]            | 470.0 [18.5]               | 731.0 [28.8] |
| 5YCC4048*1 (070) | 74.5 [164]             | 44.6 [98]  | 33.2 [73] | 53.9 [119] | 253.3 [559]                    | 206.2 [455]            | 433.0 [17.0]               | 743.3 [29.3] |
| 5YCC4048*1 (090) | 75.2 [164]             | 45.0 [99]  | 33.8 [78] | 54.4 [120] | 255.6 [564]                    | 208.4 [460]            | 433.0 [17.0]               | 743.3 [29.3] |
| 5YCC4060*1 (090) | 78.7 [174]             | 45.8 [101] | 34.4 [76] | 58.3 [128] | 264.4 [583]                    | 217.2 [479]            | 433.0 [17.0]               | 743.3 [29.3] |
| 5YCC4060*1 (115) | 79.7 [176]             | 46.3 [102] | 34.9 [77] | 59.0 [130] | 267.1 [589]                    | 219.9 [485]            | 414.0 [16.3]               | 635.0 [25.0] |
| 5YCC4036*3 (070) | 62.7 [138]             | 38.3 [84]  | 27.1 [60] | 43.2 [95]  | 200.3 [442]                    | 171.3 [378]            | 414.3 [16.3]               | 697.6 [27.5] |
| 5YCC4036*3 (090) | 63.3 [140]             | 38.9 [86]  | 27.7 [61] | 43.7 [96]  | 207.1 [457]                    | 173.6 [383]            | 414.3 [16.3]               | 697.6 [27.5] |
| 5YCC4048*3 (070) | 71.7 [158]             | 44.6 [98]  | 33.2 [73] | 53.9 [119] | 250.6 [553]                    | 203.4 [449]            | 433.0 [17.0]               | 743.3 [29.3] |
| 5YCC4048*3 (090) | 72.5 [160]             | 45.0 [99]  | 33.8 [78] | 54.4 [120] | 252.9 [558]                    | 205.7 [454]            | 433.0 [17.0]               | 743.3 [29.3] |
| 5YCC4060*3 (115) | 77.0 [170]             | 46.3 [102] | 34.9 [77] | 59.0 [130] | 264.4 [583]                    | 217.2 [479]            | 414.0 [16.3]               | 635.0 [25.0] |
| 5YCC4036*4 (070) | 68.6 [151]             | 38.3 [84]  | 27.1 [60] | 43.2 [95]  | 206.2 [455]                    | 177.2 [391]            | 414.3 [16.3]               | 697.6 [27.5] |
| 5YCC4036*4 (090) | 69.2 [153]             | 38.9 [86]  | 27.7 [61] | 43.7 [96]  | 213.0 [470]                    | 179.5 [396]            | 414.3 [16.3]               | 697.6 [27.5] |
| 5YCC4048*4 (070) | 77.2 [170]             | 44.6 [98]  | 33.2 [73] | 53.9 [119] | 256.1 [565]                    | 208.9 [461]            | 433.0 [17.0]               | 743.3 [29.3] |
| 5YCC4048*4 (090) | 78.0 [172]             | 45.0 [99]  | 33.8 [78] | 54.4 [120] | 258.3 [570]                    | 211.2 [466]            | 433.0 [17.0]               | 743.3 [29.3] |
| 5YCC4060*4 (115) | 86.6 [191]             | 46.3 [102] | 34.9 [77] | 59.0 [130] | 273.9 [604]                    | 226.8 [500]            | 414.0 [16.3]               | 635.0 [25.0] |



# 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 60335. Units shall be designed to operate at ambient temperatures as high as 115°F. Cooling performance shall be rated in accordance with AHRI standards. The YC heating/cooling unit design is certified to ANSI 221.47/CSA 2.3, specifically for outdoor applications using natural gas or propane. All units shall be designed for outdoor rooftop or ground level installation.

## 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 (2 to 4 Ton Models)** All aluminum micro channel, extruded tubes, mechanically bonded to aluminum fins, and factory pressure tested at 480 psig and leak tested at 250 to 300 psig. All units have TXV to control refrigerant flow.

**Evaporator Coil (5 Ton Model)** Internally enhanced 3/8-in. 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-in. 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.

## Heating System



## Mechanical Specifications

---

### **Gas-Fired Heating Section**

Models shall provide completely assembled, wired and piped gas fired heating systems within unit. Design certified by UL, specifically for outdoor application. Threaded gas connection on the unit.

### **Electric Ignition System**

Main burner is lit each time thermostat calls for heat. Flame sensor proves flame and keeps the main burner on. Should a loss of flame occur, the main valve closes and the spark recurs within 0.8 seconds. When thermostat is satisfied, main burner is extinguished.

### **Forced Combustion Blower**

Insures flame stability under varying wind conditions. Gives higher combustion efficiency and location flexibility.

### **Heat Exchanger**

Stainless steel tubes. Free floating design.

### **Burners**

Stainless steel. Multi-port inshot.

### **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.









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