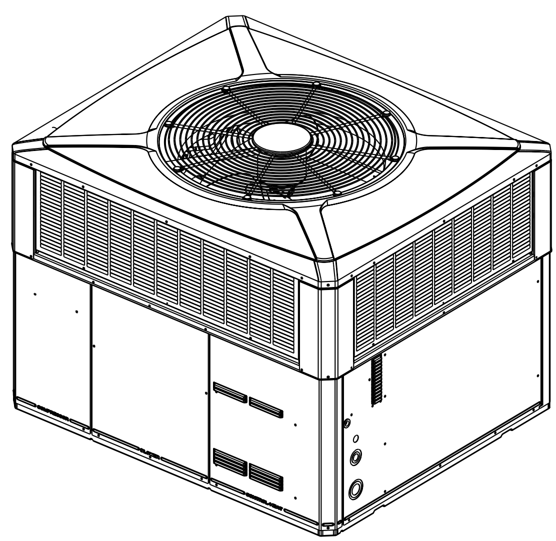
# Product Data

## Single Packaged Cooling/Electric Heat 15 SEER Convertible, 2–5 Ton

4TCY5024A1000A
4TCY5030A1000A
4TCY5036A1000A
4TCY5042A1000A
4TCY5048A1000A
4TCY5060A1000A



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

May 2020

22-1914-1C-EN

# SAFETY SECTION

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

**⚠ WARNING**

**HAZARDOUS VOLTAGE!**

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

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

**⚠ WARNING**

**SAFETY AND ELECTRICAL HAZARD!**

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

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

**⚠ CAUTION**

**GROUNDING REQUIRED!**

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

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

**⚠ WARNING**

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

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

**R-410A operating pressure exceeds the limit of R-22. Proper service equipment is required. Service using only R-410A Refrigerant and approved POE compressor oil.**

**⚠ WARNING**

**SAFETY HAZARD!**

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

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

**⚠ WARNING**

**WARNING!**

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

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

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

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# Single Packaged Cooling/Electric Heat System

**Introducing the new Trane Single Cooling/Electric Heat System**

**Single Packaged Cooling Systems are easy and versatile to install.**

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

**Single Packaged Cooling 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.

# Product Specifications

| MODEL | 4TCY5024A1000A | 4TCY5030A1000A | 4TCY5036A1000A | 4TCY5042A1000A |
|---|---|---|---|---|
| RATED Volts/PH/Hz | 208–230/1/60 | 208–230/1/60 | 208–230/1/60 | 208–230/1/60 |
| Performance Cooling BTUH [(a)] | 23800 | 28400 | 36000 | 40500 |
| Indoor Airflow (CFM) | 815 | 875 | 1035 | 1350 |
| Power Input (KW) | 1.81 | 2.12 | 2.74 | 3.01 |
| EER/SEER (BTU/Watt-Hr.) [(b)] | 12.0 / 15.00 | 12.0 / 15.00 | 12.0 / 15.00 | 12.0 / 15.0 |
| Sound Power Rating [dB(A)] [(c)] | 65 | 70 | 69 | 71 |
| **POWER CONN. — V/Ph/Hz** | 208–230/1/60 | 208–230/1/60 | 208–230/1/60 | 208–230/1/60 |
| Min. Brch. Cir. Ampacity [(d)] | 18.4 | 21.2 | 23.8 | 28.6 |
| Fuse Size — Max. (amps) | 25 | 30 | 35 | 45 |
| Fuse Size — Recmd. (amps) | 25 | 30 | 35 | 45 |
| **COMPRESSOR** | SCROLL | SCROLL | SCROLL | SCROLL |
| Volts/Ph/Hz | 208–230/1/60 | 208–230/1/60 | 208–230/1/60 | 208–230/1/60 |
| R.L. Amps — L.R. Amps | 10. 9 / 63 | 12.8/68 | 14.7/75 | 16.7/109 |
| **OUTDOOR COIL — TYPE** | SPINE-FIN | SPINE-FIN | SPINE-FIN | SPINE-FIN |
| Rows/F.P.I | 2/24 | 2 / 24 | 2 / 24 | 2 / 24 |
| Face Area (sq. ft.) | 13.32 | 15.49 | 15.49 | 23.57 |
| Tube Size (in.) | 3/8 | 3/8 | 3/8 | 3/8 |
| **INDOOR COIL — TYPE** | MCHE | MCHE | PLATE FIN | MCHE |
| Rows/F.P.I | 2/16 | 2 / 16 | 4 / 15 | 2 / 16 |
| Face Area (sq. ft.) | 2.7 | 2.7 | 3.54 | 3.9 |
| Tube Size (in.) | 0.81 | 0.81 | 3/8 | 0.81 |
| Refrigeration Control | 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 |
| **OUTDOOR FAN — TYPE** | PROPELLER | PROPELLER | PROPELLER | PROPELLER |
| DIA. (IN.) | 23.4 | 23.4 | 23.4 | 28.2 |
| DRIVE/NO. SPEEDS | DIRECT / 1 | DIRECT / 1 | DIRECT / 1 | DIRECT / 1 |
| CFM @ 0.0 in. w.g. [(e)] | 2570 | 2800 | 3080 | 4200 |
| Motor — HP/R.P.M | 1/12 / 810 | 1/6 / 825 | 1/5 / 825 | 1/6 / 830 |
| Volts/Ph/Hz | 208–230/1/60 | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 |
| F.L. Amps/L.R Amps | 0.54 / 0.95 | .85 / 1.65 | 1.1 / 2.0 | 0.9 / 1.65 |
| **INDOOR FAN — TYPE** | CENTRIFUGAL | CENTRIFUGAL | CENTRIFUGAL | CENTRIFUGAL |
| Dia. x Width (in.) | 10 X 10 | 10 X 10 | 10 X 10 | 10 X 10 |
| Drive/No. Speeds | DIRECT / VARIABLE | DIRECT / VARIABLE | DIRECT / VARIABLE | DIRECT / VARIABLE |
| CFM [(f)] | SEE FAN PERF TABLE | SEE FAN PERF TABLE | SEE FAN PERF TABLE | SEE FAN PERFORMANCE TABLE |
| Motor — HP/R.P.M. | 1/2 VARIABLE | 1/2 VARIABLE | 1/2 VARIABLE | 3/4 / VARIABLE |
| Volts/Ph/Hz | 208–230/1/60 | 208–230/1/60 | 208–230/1/60 | 208–230/1/60 |
| F.L. Amps | 4.3 | 4.3 | 4.3 | 6.8 |
| **FILTER / FURNISHED** | NO | NO | NO | NO |
| Type Recommended | THROWAWAY | THROWAWAY | THROWAWAY | THROWAWAY |
| Recmd. Face Area (sq. ft) [(g)] | 4.0 | 4.0 | 4.0 | 5.3 |
| **REFRIGERANT** | R-410A | R-410A | R-410A | R-410 |
| Charge (lbs.) | 5.40 | 7.38 | 7.00 | 8.20 |
| **CHARGING SPECIFICATIONS** | | | | |
| Subcooling | 10° | 8° | 6° | 10° |
| **DIMENSIONS** | H X D X W | H X D X W | H X D X W | H X D X W |
| Crated (in.) | 46 X 45 X 52 | 48 X 45 X 52 | 48 X 45 X 52 | 52 X 47 X 61 |
| **WEIGHT** | | | | |
| Shipping (lbs.) / Net (lbs.) | 388 / 318 | 418 / 348 | 422 / 352 | 547 / 462 |

(a) Rated in accordance with AHRI Standard 210/240.
(b) Rated in accordance with D.O.E. test procedure.
(c) Sound Power values are not adjusted for AHRI 270–95 tonal corrections.
(d) Calculated in accordance with currently prevailing Nat'l Electrical Code.
(e) Standard Air — Dry Coil — Outdoor.
(f) Standard Air — Dry Coil — Indoor
(g) Filters must be installed in return air stream. Square footages listed are based on 300 f.p.m. face velocity. If permanent filters are used size per manufacturer's recommendation with a clean resistance of 0.05" W.C.

# Product Specifications

| MODEL | 4TCY5048A1000A | 4TCY5060A1000A |
|---|---|---|
| RATED Volts/PH/Hz | 208–230/1/60 | 208–230/1/60 |
| Performance Cooling BTUH [a] | 48000 | 57500 |
| Indoor Airflow (CFM) (High) | 1540 | 1940 |
| Power Input (KW) | 4.0 | 5.0 |
| BTUH (Low) | 34800 | 40500 |
| Indoor Airflow (Low) | 1120 | 1325 |
| Power Input | 2.58 | 3.2 |
| EER/SEER (BTU/Watt-Hr.) [b] | 12.0 / 15.0 | 11.4 / 15.0 |
| Sound Power Rating [dB(A)] [c] | 71 | 73 |
| **POWER CONN. — V/Ph/Hz** | 208–230/1/60 | 208–230/1/60 |
| Min. Brch. Cir. Ampacity [d] | 34.2 | 44.4 |
| Fuse Size — Max. (amps) | 50 | 60 |
| Fuse Size — Recmd. (amps) | 50 | 60 |
| **COMPRESSOR** | 2-STAGE SCROLL | 2-STAGE SCROLL |
| Volts/Ph/Hz | 208–230/1/60 | 208–230/1/60 |
| R.L. Amps — L.R. Amps | 21.2/104 | 28.8 / 152.9 |
| **OUTDOOR COIL — TYPE** | SPINE-FIN | SPINE-FIN |
| Rows/F.P.I | 2 / 24 | 2 / 24 |
| Face Area (sq. ft.) | 23.57 | 23.57 |
| Tube Size (in.) | 3/8 | 3/8 |
| **INDOOR COIL — TYPE** | PLATE FIN | PLATE FIN |
| Rows/F.P.I | 4 / 15 | 4 / 15 |
| Face Area (sq. ft.) | 5.0 | 5.0 |
| Tube Size (in.) | 3/8 | 3/8 |
| Refrigeration Control | EXPANSION VALVE | EXPANSION VALVE |
| Drain Conn. Size (in.) | 3/4 FEMALE NPT | 3/4 FEMALE NPT |
| **OUTDOOR FAN — TYPE** | PROPELLER | PROPELLER |
| DIA. (IN.) | 28.2 | 28.2 |
| DRIVE/NO. SPEEDS | DIRECT / 1 | DIRECT / 1 |
| CFM @ 0.0 in. w.g. [e] | 4200 | 4700 |
| Motor — HP/R.P.M | 1/6 / 830 | 1/4 / 830 |
| Volts/Ph/Hz | 208-230/1/60 | 208-230/1/60 |
| F.L. Amps/L.R Amps | 0.9 / 1.65 | 1.4 / 3.37 |
| **INDOOR FAN — TYPE** | CENTRIFUGAL | CENTRIFUGAL |
| Dia. x Width (in.) | 10 X 10 | 11 X 10 |
| Drive/No. Speeds | DIRECT / VARIABLE | DIRECT / VARIABLE |
| CFM [f] | SEE FAN PERFORMANCE TABLE | SEE FAN PERFORMANCE TABLE |
| Motor — HP/R.P.M. | 3/4 / VARIABLE | 1 / VARIABLE |
| Volts/Ph/Hz | 208-230/1/60 | 208-230/1/60 |
| F.L. Amps | 6.8 | 6.9 |
| **FILTER / FURNISHED** | NO | NO |
| Type Recommended | THROWAWAY | THROWAWAY |
| Recmd. Face Area (sq. ft) [g] | 5.3 | 5.3 |
| **REFRIGERANT** | R-410A | R-410A |
| Charge (lbs.) | 8.77 | 9.30 |
| **CHARGING SPECIFICATIONS** | | |
| Subcooling | 10° | 11° |
| **DIMENSIONS** | H X D X W | H X D X W |
| Crated (in.) | 52 X 47 X 61 | 52 X 47 X 61 |
| **WEIGHT** | | |
| Shipping (lbs.) / Net (lbs.) | 570 / 485 | 582 / 497 |

(a) Rated in accordance with AHRI Standard 210/240.
(b) Rated in accordance with D.O.E. test procedure.
(c) Sound Power values are not adjusted for AHRI 270–95 tonal corrections.
(d) Calculated in accordance with currently prevailing Nat'l Electrical Code.
(e) Standard Air — Dry Coil — Outdoor.
(f) Standard Air — Dry Coil — Indoor
(g) Filters must be installed in return air stream. Square footages listed are based on 300 f.p.m. face velocity. If permanent filters are used size per manufacturer's recommendation with a clean resistance of 0.05" W.C.

# Indoor Fan Performance (230v)

**Table 1. Horizontal Airflow**

| 4TCY5024A1 | | EXTERNAL STATIC PRESSURE (IN. WG) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MOTOR SPEED | | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
| COOLING — LOW | WATTS | — | 75 | 99 | 122 | 145 | 168 | 189 | 211 | 230 | 250 | — |
| | CFM | — | 701 | 710 | 719 | 711 | 702 | 691 | 680 | 667 | 655 | — |
| COOLING — MED | WATTS | — | 97 | 124 | 150 | 177 | 204 | 228 | 253 | 275 | 298 | — |
| | CFM | — | 788 | 802 | 816 | 812 | 809 | 798 | 787 | 774 | 762 | — |
| COOLING — HIGH | WATTS | — | 123 | 154 | 184 | 213 | 242 | 271 | 301 | 324 | 348 | — |
| | CFM | — | 874 | 891 | 907 | 908 | 910 | 900 | 891 | 875 | 860 | — |

**Table 2. Down Airflow**

| 4TCY5024A1 | | EXTERNAL STATIC PRESSURE (IN. WG) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MOTOR SPEED | | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
| COOLING — LOW | WATTS | — | 80 | 100 | 115 | 136 | 164 | 191 | 209 | 242 | 261 | — |
| | CFM | — | 714 | 717 | 714 | 701 | 698 | 696 | 680 | 681 | 676 | — |
| COOLING — MED | WATTS | — | 90 | 108 | 131 | 155 | 177 | 202 | 231 | 272 | 315 | — |
| | CFM | — | 802 | 799 | 813 | 815 | 816 | 808 | 801 | 796 | 782 | — |
| COOLING — HIGH | WATTS | — | 126 | 156 | 188 | 217 | 244 | 270 | 291 | 330 | 360 | — |
| | CFM | — | 879 | 896 | 914 | 914 | 913 | 898 | 893 | 905 | 907 | — |

**Table 3. Horizontal Airflow**

| 4TCY5030A1 | | EXTERNAL STATIC PRESSURE (IN. WG) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MOTOR SPEED | | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
| COOLING — LOW | WATTS | — | 115 | 145 | 174 | 202 | 231 | 259 | 287 | 311 | 334 | — |
| | CFM | — | 848 | 863 | 878 | 879 | 879 | 870 | 861 | 847 | 833 | — |
| COOLING — MED | WATTS | — | 160 | 191 | 223 | 253 | 284 | 316 | 348 | 377 | 405 | — |
| | CFM | — | 969 | 979 | 989 | 992 | 996 | 991 | 985 | 973 | 961 | — |
| COOLING — HIGH | WATTS | — | 209 | 244 | 278 | 312 | 347 | 380 | 413 | 448 | 483 | — |
| | CFM | — | 1076 | 1086 | 1095 | 1099 | 1103 | 1100 | 1097 | 1088 | 1080 | – |

**Table 4. Down Airflow**

| 4TCY5030A1 | | EXTERNAL STATIC PRESSURE (IN. WG) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MOTOR SPEED | | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
| COOLING — LOW | WATTS | — | 115 | 141 | 170 | 197 | 227 | 256 | 281 | 290 | 272 | — |
| | CFM | — | 838 | 845 | 854 | 851 | 848 | 834 | 808 | 754 | 670 | — |
| COOLING — MED | WATTS | — | 161 | 188 | 218 | 250 | 284 | 319 | 349 | 363 | 352 | — |
| | CFM | — | 955 | 959 | 962 | 959 | 957 | 946 | 935 | 917 | 897 | — |
| COOLING — HIGH | WATTS | — | 204 | 235 | 265 | 295 | 332 | 384 | 478 | - | - | — |
| | CFM | — | 1045 | 1048 | 1052 | 1054 | 1060 | 1064 | 1067 | - | - | — |

TRANE

# Indoor Fan Performance (230v)

### Table 5. Horizontal Airflow

| 4TCY5036A1 | | EXTERNAL STATIC PRESSURE (IN. WG) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MOTOR SPEED | | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
| COOLING — LOW | WATTS | 162 | 173 | 197 | 226 | 256 | 285 | 313 | 343 | 360 | - | - |
| | CFM | 1058 | 1062 | 1063 | 1063 | 1062 | 1060 | 1057 | 1053 | 1010 | - | - |
| COOLING — MED | WATTS | 179 | 230 | 265 | 296 | 329 | 366 | 403 | 431 | 436 | - | - |
| | CFM | 1179 | 1196 | 1204 | 1206 | 1205 | 1203 | 1199 | 1194 | 1185 | - | - |
| COOLING — HIGH | WATTS | 318 | 336 | 365 | 399 | 435 | 469 | 502 | 533 | - | - | - |
| | CFM | 1390 | 1376 | 1370 | 1366 | 1361 | 1354 | 1349 | 1351 | - | - | - |

### Table 6. Down Airflow

| 4TCY5036A1 | | EXTERNAL STATIC PRESSURE (IN. WG) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MOTOR SPEED | | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
| COOLING — LOW | WATTS | 169 | 182 | 210 | 243 | 273 | 301 | 331 | 370 | 433 | - | - |
| | CFM | 1025 | 1062 | 1068 | 1063 | 1060 | 1061 | 1064 | 1055 | 1015 | - | - |
| COOLING — MED | WATTS | 225 | 253 | 283 | 315 | 348 | 381 | 414 | 449 | 484 | - | - |
| | CFM | 1187 | 1201 | 1203 | 1201 | 1198 | 1197 | 1194 | 1184 | 1157 | - | - |
| COOLING — HIGH | WATTS | 339 | 357 | 390 | 424 | 455 | 483 | 516 | 571 | - | - | - |
| | CFM | 1391 | 1377 | 1377 | 1375 | 1366 | 1352 | 1344 | 1360 | - | - | - |

### Table 7. Horizontal Airflow

| 4TCY5042A1 | | EXTERNAL STATIC PRESSURE (IN. WG) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MOTOR SPEED | | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
| COOLING — LOW | WATTS | — | 160 | 185 | 214 | 245 | 277 | 308 | 339 | 368 | 396 | 423 |
| | CFM | — | 1206 | 1211 | 1213 | 1215 | 1215 | 1214 | 1212 | 1208 | 1201 | 1190 |
| COOLING — MED | WATTS | — | 231 | 261 | 292 | 325 | 359 | 394 | 431 | 467 | 503 | 536 |
| | CFM | — | 1389 | 1398 | 1405 | 1409 | 1410 | 1408 | 1403 | 1399 | 1396 | 1399 |
| COOLING — HIGH | WATTS | — | 326 | 362 | 393 | 421 | 450 | 482 | 517 | 556 | 597 | — |
| | CFM | — | 1582 | 1592 | 1592 | 1587 | 1577 | 1566 | 1557 | 1553 | 1556 | — |

### Table 8. Down Airflow

| 4TCY5042A1 | | EXTERNAL STATIC PRESSURE (IN. WG) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MOTOR SPEED | | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
| COOLING — LOW | WATTS | — | 176 | 203 | 232 | 262 | 294 | 325 | 339 | 368 | 396 | 423 |
| | CFM | — | 1207 | 1214 | 1217 | 1216 | 1213 | 1208 | 1212 | 1208 | 1201 | 1190 |
| COOLING — MED | WATTS | — | 253 | 290 | 323 | 355 | 386 | 420 | 431 | 467 | 503 | 536 |
| | CFM | — | 1405 | 1411 | 1413 | 1412 | 1407 | 1399 | 1403 | 1399 | 1396 | 1399 |
| COOLING — HIGH | WATTS | — | 367 | 379 | 409 | 446 | 485 | 556 | 517 | 556 | 597 | — |
| | CFM | — | 1599 | 1577 | 1570 | 1569 | 1566 | 1550 | 1557 | 1553 | 1556 | — |

**Table 9. Horizontal Airflow**

| 4TCY5048A1 | | EXTERNAL STATIC PRESSURE (IN. WG) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MOTOR SPEED | | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
| 350 CFM/Ton Setting | LOW | - | 954 | 973 | 977 | 973 | 966 | 957 | 950 | 944 | - | - |
| | HIGH | - | 1363 | 1390 | 1396 | 1390 | 1379 | 1368 | 1358 | 1349 | - | - |
| 400 CFM/Ton Setting | LOW | - | 1121 | 1106 | 1104 | 1106 | 1108 | 1108 | 1104 | 1097 | - | - |
| | HIGH | - | 1601 | 1580 | 1577 | 1580 | 1583 | 1583 | 1577 | 1567 | - | - |
| 450 CFM/Ton Setting | LOW | - | 1223 | 1254 | 1268 | 1271 | 1268 | 1264 | 1261 | 1258 | - | - |
| | HIGH | - | 1747 | 1792 | 1811 | 1816 | 1812 | 1806 | 1801 | 1797 | - | - |

**Table 10. Down Airflow**

| 4TCY5048A1 | | EXTERNAL STATIC PRESSURE (IN. WG) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MOTOR SPEED | | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
| 350 CFM/Ton Setting | LOW | - | 948 | 977 | 977 | 970 | 969 | 975 | 979 | 962 | - | - |
| | HIGH | - | 1354 | 1396 | 1396 | 1386 | 1384 | 1393 | 1399 | 1375 | - | - |
| 400 CFM/Ton Setting | LOW | - | 1102 | 1106 | 1109 | 1113 | 1116 | 1119 | 1120 | 1118 | - | - |
| | HIGH | - | 1574 | 1580 | 1585 | 1589 | 1594 | 1599 | 1601 | 1597 | - | - |
| 450 CFM/Ton Setting | LOW | - | 1295 | 1277 | 1272 | 1273 | 1274 | 1273 | 1272 | 1273 | - | - |
| | HIGH | - | 1851 | 1824 | 1817 | 1818 | 1820 | 1819 | 1817 | 1819 | - | - |

**Table 11. Horizontal Airflow**

| 4TCY5060A1 | | EXTERNAL STATIC PRESSURE (IN. WG) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MOTOR SPEED | | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
| 350 CFM/Ton Setting | LOW | - | 1163 | 1238 | 1259 | 1256 | 1246 | 1240 | 1237 | 1230 | - | - |
| | HIGH | - | 1662 | 1768 | 1799 | 1794 | 1780 | 1771 | 1767 | 1757 | - | - |
| 400 CFM/Ton Setting | LOW | - | 1443 | 1427 | 1422 | 1422 | 1423 | 1422 | 1418 | 1410 | - | - |
| | HIGH | - | 2062 | 2038 | 2031 | 2032 | 2034 | 2032 | 2025 | 2015 | - | - |

**Table 12. Down Airflow**

| 4TCY5060A1 | | EXTERNAL STATIC PRESSURE (IN. WG) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MOTOR SPEED | | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
| 350 CFM/Ton Setting | LOW | - | 1259 | 1219 | 1208 | 1207 | 1206 | 1199 | 1188 | 1185 | - | - |
| | HIGH | - | 1799 | 1742 | 1726 | 1725 | 1723 | 1712 | 1698 | 1692 | - | - |
| 400 CFM/Ton Setting | LOW | - | 1410 | 1393 | 1386 | 1384 | 1383 | 1380 | 1368 | 1344 | - | - |
| | HIGH | - | 2015 | 1990 | 1980 | 1977 | 1976 | 1971 | 1955 | 1920 | - | - |

# Supplementary Electric Heater

**Table 13. BAYHTRV — Supplementary Electric Heaters**

| UNIT MODEL | ELECTRIC HEATER MODEL | RATED VOLT-AGE | PHASE | AMPS | HEATER CAPACITY | | NO. OF STAGES | KW/STAGE | | MCA | MAX. FUSE OR HACR CKT BKR SIZE | CANADA ONLY MAX. CKT BKR SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | KW | BTUH | | 1 | 2 | | | |
| 4TCY5 024–060 | BAYHTRV105 | 208/240 | 1 | 18/21 | 3.76/5.0 | 12800/ 17100 | 1 | 3.76/ 5.0 | — | 23/26 | 25/30 | 25/30 |
| 4TCY5 024–060 | BAYHTRV108 | 208/240 | 1 | 29/33 | 6.0/8.0 | 20500/ 27300 | 1 | 6.0/ 8.0 | — | 36/41 | 40/45 | 40/45 |
| 4TCY5 024–060 | BAYHTRV110 | 208/240 | 1 | 36/42 | 7.5/10.0 | 25600/ 34100 | 1 | 7.5/ 10.0 | — | 45/52 | 45/60 | 45/60 |
| 4TCY5 030–060 | BAYHTRV115 | 208/240 | 1 | 54/63 | 11.27/ 15.0 | 38500/ 51200 | 2 | 7.5/ 10.0 | 3.76/ 5.0 | 68/78 | 70/80 | 70/80 |
| 4TCY5 048–060 | BAYHTRV120 | 208/240 | 1 | 72/83 | 15.0/ 20.0 | 51200/ 68300 | 2 | 7.5/ 10.0 | 7.5/ 10.0 | 90/ 104 | 90/110 | 90/110 |
| 4TCY5 060 | BAYHTRV125 | 208/240 | 1 | 90/ 104 | 18.78/ 25.0 | 64100/ 85300 | 2 | 11.26/ 15.0 | 7.5/ 10.0 | 113/ 130 | 125/150 | 125/150 |

**Table 14. BAYSPEK — Single Power Entry Kit**

| SINGLE CIRCUIT POWER AMPACITY AND OVER CURRENT PROTECTION | | | | |
|---|---|---|---|---|
| UNIT MODEL | SINGLE POWER ENTRY KIT | HEATER MODEL | MIN CKT AMP | MAX OVER-CURRENT DEVICE |
| 4TCY5024A | BAYSPEK060 | BAYHTRV105 | 32 | 35 |
| | | BAYHTRV108 | 47 | 50 |
| | | BAYHTRV110 | 28 | 60 |

**Table 15. BAYSPEK — Single Power Entry Kit**

| SINGLE CIRCUIT POWER AMPACITY AND OVER CURRENT PROTECTION | | | | |
|---|---|---|---|---|
| UNIT MODEL | SINGLE POWER ENTRY KIT | HEATER MODEL | MIN CKT AMP | MAX OVER-CURRENT DEVICE |
| 4TCY5030A | BAYSPEK060 | BAYHTRV105 | 32 | 35 |
| | | BAYHTRV108 | 47 | 50 |
| | | BAYHTRV110 | 58 | 60 |
| | BAYSPEK063 | BAYHTRV115 | 84 | 90 |

**Table 16. BAYSPEK — Single Power Entry Kit**

| SINGLE CIRCUIT POWER AMPACITY AND OVER CURRENT PROTECTION | | | | |
|---|---|---|---|---|
| UNIT MODEL | SINGLE POWER ENTRY KIT | HEATER MODEL | MIN CKT AMP | MAX OVER-CURRENT DEVICE |
| 4TCY5036A | BAYSPEK060 | BAYHTRV105 | 32 | 35 |
| | | BAYHTRV108 | 47 | 50 |
| | | BAYHTRV110 | 58 | 60 |
| | BAYSPEK063 | BAYHTRV115 | 84 | 90 |

**Table 17. BAYSPEK — Single Power Entry Kit**

| SINGLE CIRCUIT POWER AMPACITY AND OVER CURRENT PROTECTION | | | | |
|---|---|---|---|---|
| UNIT MODEL | SINGLE POWER ENTRY KIT | HEATER MODEL | MIN CKT AMP | MAX OVER-CURRENT DEVICE |
| 4TCY5042A | BAYSPEK060 | BAYHTRV105 | 35 | 45 |
| | | BAYHTRV108 | 50 | 50 |
| | BAYSPEK062 | BAYHTRV110 | 61 | 70 |
| | BAYSPEK063 | BAYHTRV115 | 87 | 90 |

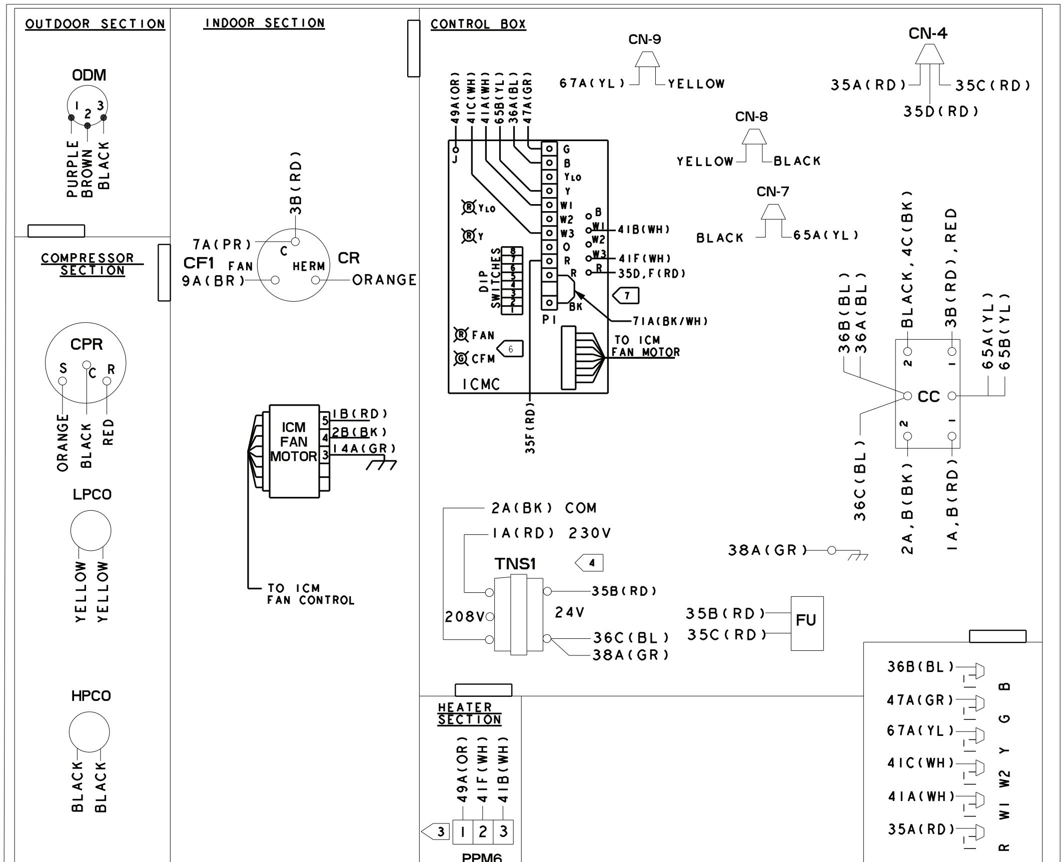
**Table 18. BAYSPEK — Single Power Entry Kit**

| SINGLE CIRCUIT POWER AMPACITY AND OVER CURRENT PROTECTION | | | | |
|---|---|---|---|---|
| UNIT MODEL | SINGLE POWER ENTRY KIT | HEATER MODEL | MIN CKT AMP | MAX OVER-CURRENT DEVICE |
| 4TCY5048A | BAYSPEK060 | BAYHTRV105 | 35 | 50 |
| | | BAYHTRV108 | 50 | 50 |
| | BAYSPEK062 | BAYHTRV110 | 61 | 70 |
| | BAYSPEK063 | BAYHTRV115 | 87 | 90 |
| | | BAYHTRV120 | 112 | 125 |

**Table 19. BAYSPEK — Single Power Entry Kit**

| SINGLE CIRCUIT POWER AMPACITY AND OVER CURRENT PROTECTION | | | | |
|---|---|---|---|---|
| UNIT MODEL | SINGLE POWER ENTRY KIT | HEATER MODEL | MIN CKT AMP | MAX OVER-CURRENT DEVICE |
| 4TCY5060A | BAYSPEK060 | BAYHTRV105 | 44 | 70 |
| | | BAYHTRV108 | 50 | 70 |
| | BAYSPEK062 | BAYHTRV110 | 61 | 70 |
| | BAYSPEK063 | BAYHTRV115 | 87 | 90 |
| | | BAYHTRV120 | 112 | 125 |

**Figure 1. Wiring Diagram – 4TCY5024–042**



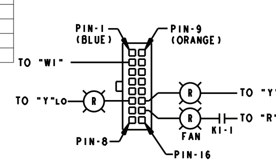

NOTES:

1. CONNECTIONS SHOWN ARE FOR A TYPICAL THERMOSTAT. SEE SCHEMATIC SUPPLIED WITH THERMOSTAT FOR PROPER CONNECTIONS. LOW VOLTAGE WIRING TO UNIT MAY BE NEC CLASS 2 AND MUST BE A MIN. OF 18 A.W.G.
2. MAXIMUM ADDITIONAL EXTERNAL LOAD (PILOT DUTY) BETWEEN "B" AND "R" OF 0.5 AMPS, 24 VAC IS AVAILABLE WHEN A HEATER IS INSTALLED.
3. SEE WIRING DIAGRAM WITH HEATER FOR DETAILS OF HEATER WIRING
4. FOR 208 VOLT OPERATION MAKE THE FOLLOWING WIRING CHANGES:
   A:REMOVE 1A(RD) WIRE FROM TNS1
   AND CONNECT TO TNS1 AT 208V TERMINAL.
5. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED IN THIS UNIT MUST BE REPLACED, REPLACE IT WITH APPLIANCE WIRING MATERIAL RATED AT 105° C.
6. THE GREEN LED ON THE ICMC BOARD FLASHES ONCE PER HUNDRED CFM.
7. IF OPTIONAL HUMIDISTAT ACCESSORY IS USED, ON THE ICMC BOARD CUT THE 71A(BK/WH) JUMPER AND CONNECT THE HUMIDISTAT BETWEEN TERMINALS.

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

WIRE COLOR DESIGNATION

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




VIEW A-A
DETAIL OF POLARIZED PLUG CONNECTIONS TO LED LIGHTS

ICMC DIP SWITCH SETTINGS

| DIP SWITCH SETTINGS | | | | COOLING/HEAT PUMP CFM | | | | NOMINAL AIRFLOW |
|---|---|---|---|---|---|---|---|---|
| SW 1 | SW 2 | SW 3 | SW 4 | 4TCY5024 | 4TCY5030 | 4TCY5036 | 4TCY5042 | |
| OFF | OFF | OFF | ON | 350 CFM/TON | 350 CFM/TON | 350 CFM/TON | 350 CFM/TON | |
| OFF | OFF | OFF | OFF | 400 CFM/TON | 400 CFM/TON | 400 CFM/TON | 400 CFM/TON | •• |
| OFF | OFF | ON | OFF | 450 CFM/TON | 450 CFM/TON | 450 CFM/TON | 450 CFM/TON | |
| ON | ON | OFF | OFF | RATED CFM/TON | RATED CFM/TON | RATED CFM/TON | RATED CFM/TON | |
| | SW 5 | SW 6 | | FAN OFF-DELAY OPTIONS | FAN OFF-DELAY OPTIONS | FAN OFF-DELAY OPTIONS | FAN OFF-DELAY OPTIONS | |
| | OFF | OFF | | NONE | NONE | NONE | NONE | NOMINAL |
| | ON | OFF | | 45 SECONDS | 45 SECONDS | 45 SECONDS | 45 SECONDS | 100% NOMINAL•• |
| | OFF | ON | | 90 SECONDS | 90 SECONDS | 90 SECONDS | 90 SECONDS | 50 % NOMINAL |
| | ON | ON | | ENHANCED | ENHANCED | ENHANCED | ENHANCED | ENHANCED |
| | SW 7 | SW 8 | | ELECTRIC HEAT AIRFLOW | ELECTRIC HEAT AIRFLOW | ELECTRIC HEAT AIRFLOW | ELECTRIC HEAT AIRFLOW | |
| | OFF | OFF | | 350 CFM | 420 CFM | 350 CFM/TON | 400 CFM | |
| | ON | OFF | | 400 CFM | 480 CFM | 400 CFM/TON | 457 CFM | •• |

•• FACTORY SETTING.

AT CONTINUOUS FAN SETTING ("G" ONLY) AIRFLOW VALUES ARE APPROXIMATELY 50% OF LISTED VALUE.

THE HEAT PUMP FAN OFF-DELAY IS THE SAME AS THE COOLING MODE.

| DEVICE | DESCRIPTION | LINE |
|---|---|---|
| AH,BH | CONTACTOR,ELECTRIC HEAT | 39,40 |
| CC | COMPRESSOR CONTACTOR COIL | 43 |
| CF1 | OUTDOOR FAN CAPACITOR | 19 |
| CF2 | INDOOR MOTOR CAPACITOR | 26 |
| CN | CONNECTOR OR WIRE NUT | |
| CPR | COMPRESSOR | 18 |
| CR | COMPRESSOR RUN CAPACITOR | 19 |
| FDR | INDOOR FAN DELAY RELAY | 44 |
| FTB | FAN TERMINAL BLOCK | 28,29 |
| IDM | INDOOR FAN MOTOR | 28 |
| IOL | INTERNAL OVERLOAD | |
| ODM | OUTDOOR FAN MOTOR | 22 |
| PCD | PRINTED CIRCUIT BOARD | 45-47 |
| PPM6 | HEATER PLUG (FEMALE) | 39,40 |
| TNS1 | CONTROL POWER TRANSFORMER | 34 |
| HPCO | HIGH PRESSURE SWITCH | 41 |
| LPCO | LOW PRESSURE SWITCH | 41 |
| FU | FUSE | 35 |

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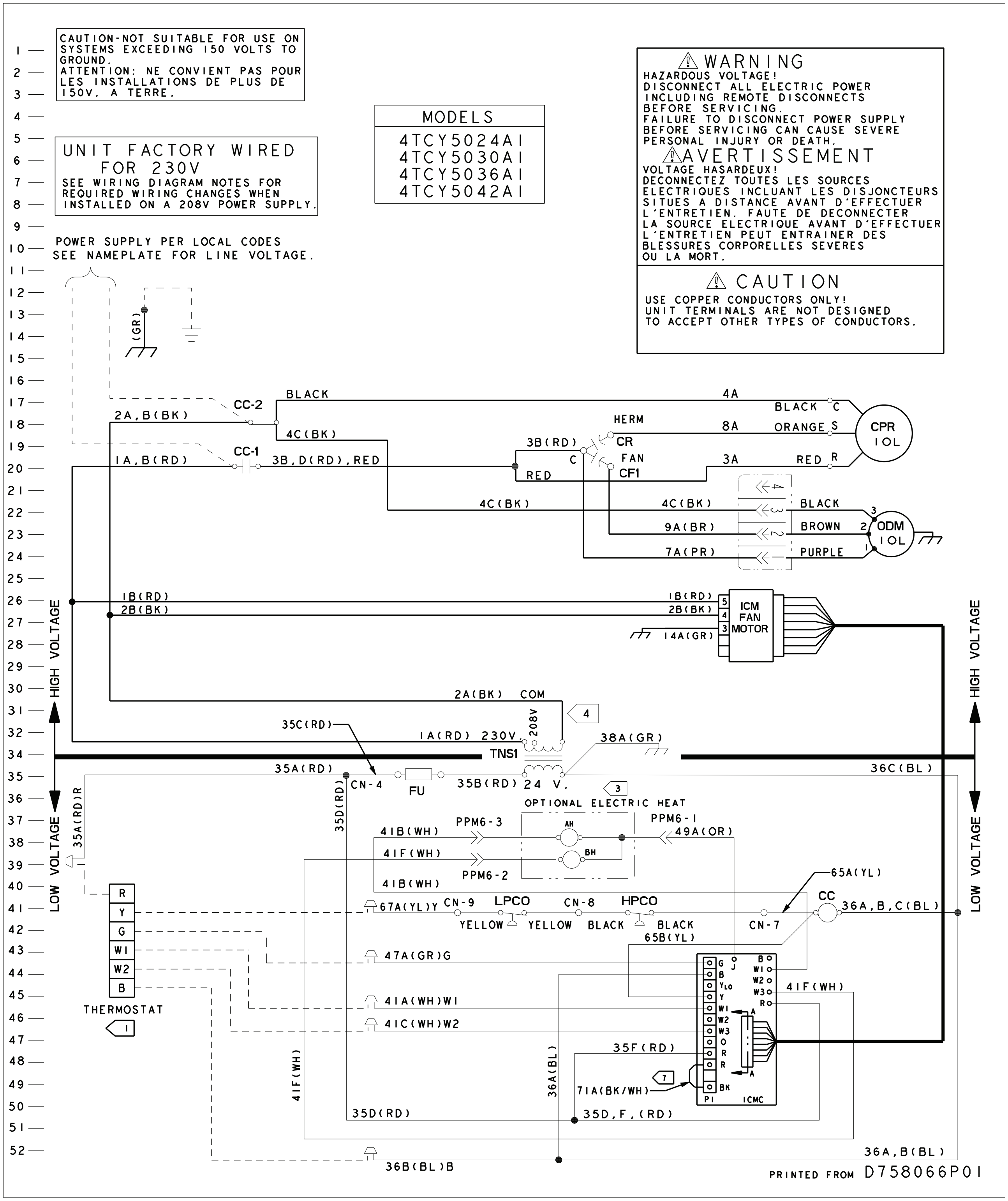
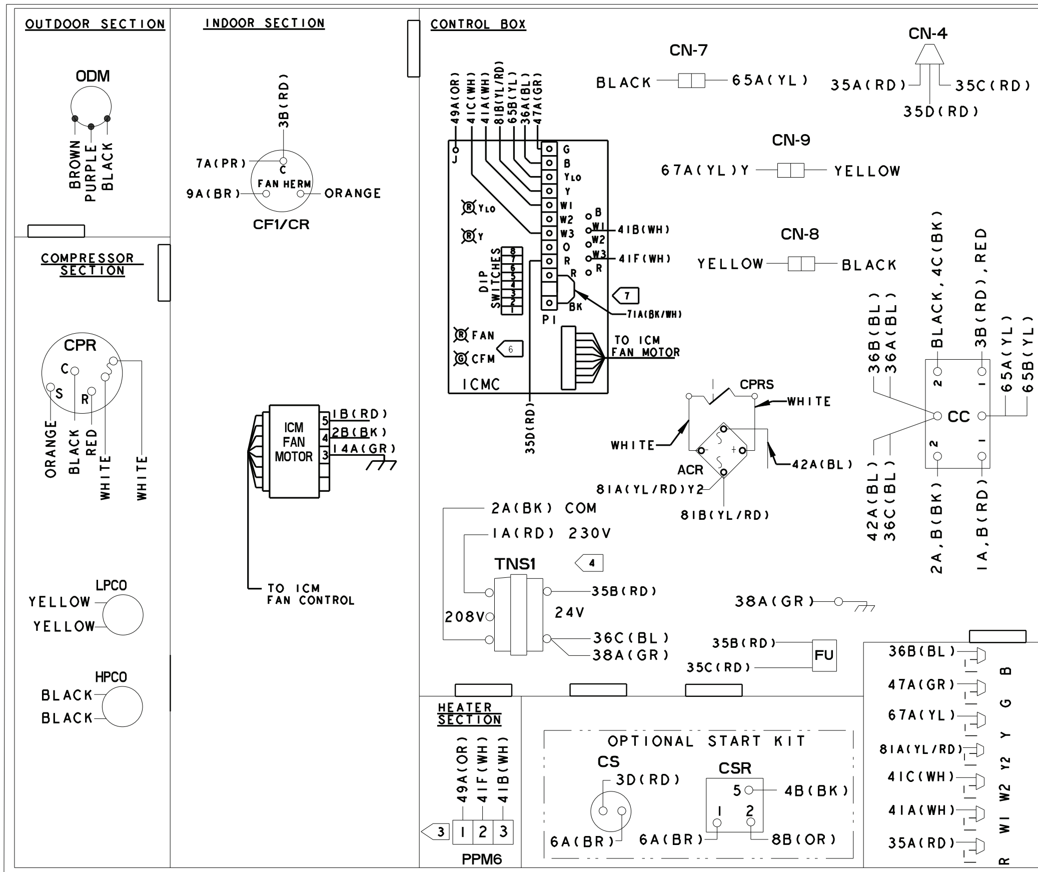
**Figure 2. Wiring Diagram – 4TCY5024–042**



## Wiring Diagram - 4TCY5048




NOTES:

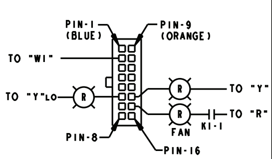
1. CONNECTIONS SHOWN ARE FOR A TYPICAL THERMOSTAT. SEE SCHEMATIC SUPPLIED WITH THERMOSTAT FOR PROPER CONNECTIONS. LOW VOLTAGE WIRING TO UNIT MAY BE NEC CLASS 2 AND MUST BE A MIN. OF 18 A.W.G.
2. MAXIMUM ADDITIONAL EXTERNAL LOAD (PILOT DUTY) BETWEEN "B" AND "R" OF 0.5 AMPS, 24 VAC IS AVAILABLE WHEN A HEATER IS INSTALLED.
3. SEE WIRING DIAGRAM WITH HEATER FOR DETAILS OF HEATER WIRING
4. FOR 208 VOLT OPERATION MAKE THE FOLLOWING WIRING CHANGES: A:REMOVE 1A(RD) WIRE FROM TNS1 AND CONNECT TO TNS1 AT 208V TERMINAL.
5. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED IN THIS UNIT MUST BE REPLACED, REPLACE IT WITH APPLIANCE WIRING MATERIAL RATED AT 105° C.
6. THE GREEN LED ON THE ICMC BOARD FLASHES ONCE PER HUNDRED CFM.
7. IF OPTIONAL HUMIDISTAT ACCESSORY IS USED, ON THE ICMC BOARD CUT THE 71A(BK/WH) JUMPER AND CONNECT THE HUMIDISTAT BETWEEN TERMINALS.

WIRE COLOR DESIGNATION

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

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

| DEVICE | DESCRIPTION | LINE |
|---|---|---|
| AH,BH | CONTACTOR,ELECTRIC HEAT | 39,40 |
| CC | COMPRESSOR CONTACTOR COIL | 43 |
| CF1 | OUTDOOR FAN CAPACITOR | 19 |
| CF2 | INDOOR MOTOR CAPACITOR | 19 |
| CN | CONNECTOR OR WIRE NUT | |
| CPR | COMPRESSOR | 18 |
| CR | COMPRESSOR RUN CAPACITOR | 19 |
| CS | COMPRESSOR START CAPACITOR | 15 |
| CSR | COMPRESSOR START RELAY COIL | 15 |
| FDR | INDOOR FAN DELAY RELAY | 44 |
| FTB | FAN TERMINAL BLOCK | 28,29 |
| IDM | INDOOR FAN MOTOR | 28 |
| IOL | INTERNAL OVERLOAD | |
| ODM | OUTDOOR FAN MOTOR | 22 |
| PCD | PRINTED CIRCUIT BOARD | 45-47 |
| PPM6 | HEATER PLUG (FEMALE) | 39,40 |
| TNS1 | CONTROL POWER TRANSFORMER | 34 |
| HPCO | HIGH PRESSURE SWITCH | 41 |
| LPCO | LOW PRESSURE SWITCH | 41 |
| FU | FUSE | 35 |
| ACR | RECTIFIER BRIDGE | 43-45 |




VIEW A-A
DETAIL OF POLARIZED PLUG CONNECTIONS TO LED LIGHTS

ICMC DIP SWITCH SETTINGS

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

•• FACTORY SETTING.

AT CONTINUOUS FAN SETTING ("G" ONLY) AIRFLOW VALUES ARE APPROXIMATELY 50% OF LISTED VALUE.

THE HEAT PUMP FAN OFF-DELAY IS THE SAME AS THE COOLING MODE.

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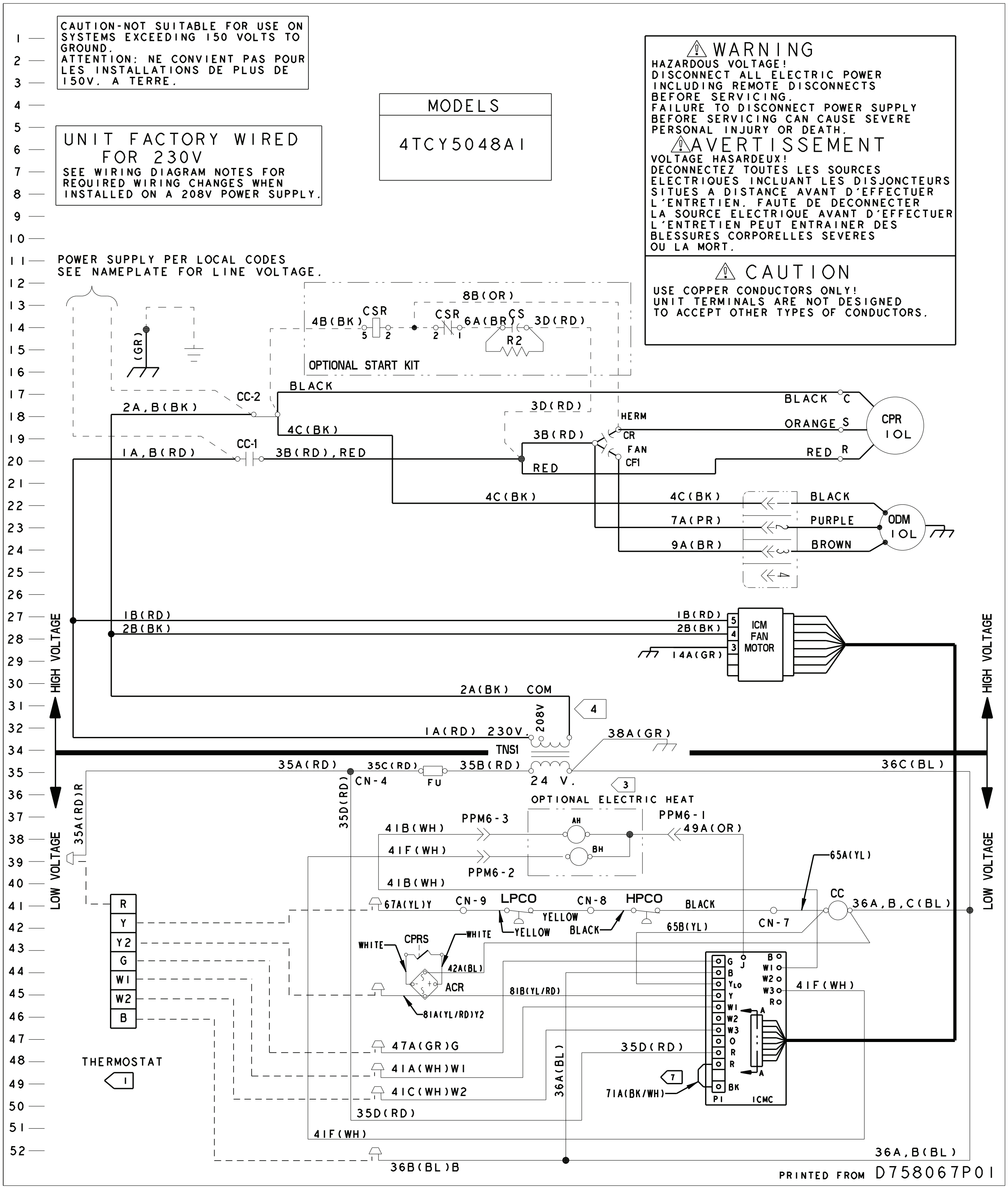
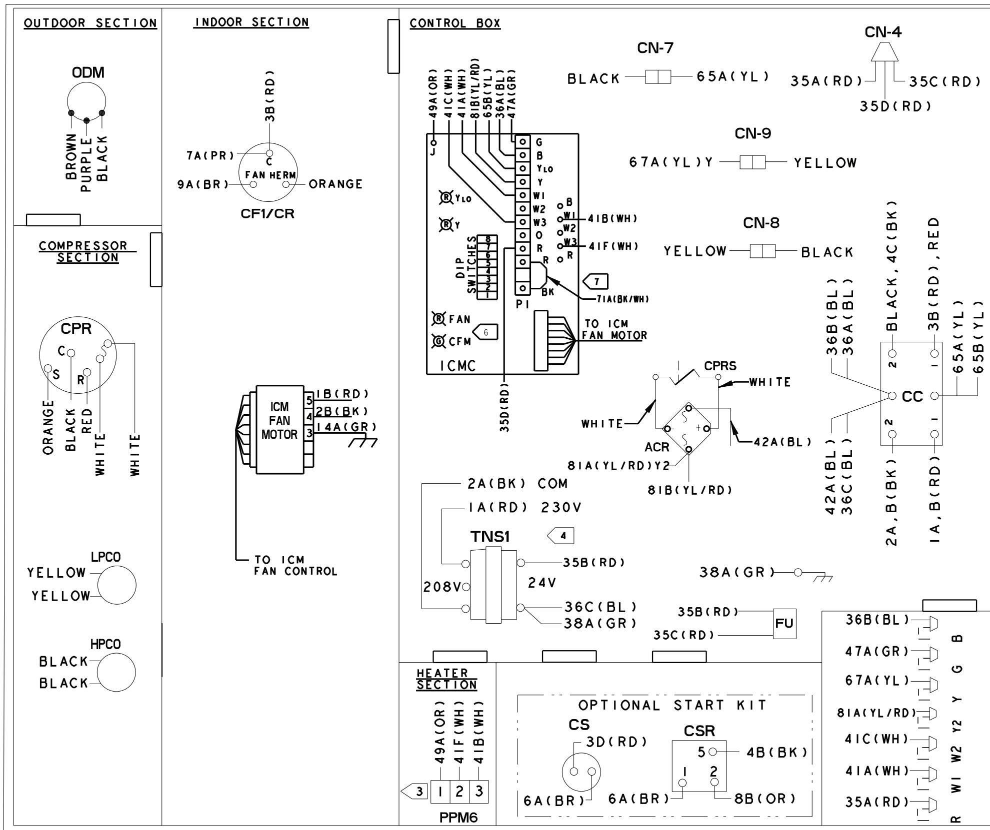
Wiring Diagram - 4TCY5048



### Figure 3. Wiring Diagram - 4TCY5060




NOTES:

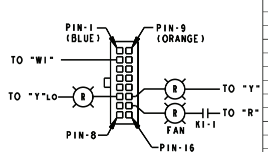
1. CONNECTIONS SHOWN ARE FOR A TYPICAL THERMOSTAT. SEE SCHEMATIC SUPPLIED WITH THERMOSTAT FOR PROPER CONNECTIONS. LOW VOLTAGE WIRING TO UNIT MAY BE NEC CLASS 2 AND MUST BE A MIN. OF 18 A.W.G.
2. MAXIMUM ADDITIONAL EXTERNAL LOAD (PILOT DUTY) BETWEEN "B" AND "R" OF 0.5 AMPS, 24 VAC IS AVAILABLE WHEN A HEATER IS INSTALLED.
3. SEE WIRING DIAGRAM WITH HEATER FOR DETAILS OF HEATER WIRING
4. FOR 208 VOLT OPERATION MAKE THE FOLLOWING WIRING CHANGES: A:REMOVE 1A(RD) WIRE FROM TNS1 AND CONNECT TO TNS1 AT 208V TERMINAL.
5. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED IN THIS UNIT MUST BE REPLACED, REPLACE IT WITH APPLIANCE WIRING MATERIAL RATED AT 105° C.
6. THE GREEN LED ON THE ICMC BOARD FLASHES ONCE PER HUNDRED CFM.
7. IF OPTIONAL HUMIDISTAT ACCESSORY IS USED, ON THE ICMC BOARD CUT THE 71A(BK/WH) JUMPER AND CONNECT THE HUMIDISTAT BETWEEN TERMINALS.

WIRE COLOR DESIGNATION

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

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

| DEVICE | DESCRIPTION | LINE |
|---|---|---|
| AH,BH | CONTACTOR,ELECTRIC HEAT | 39,40 |
| CC | COMPRESSOR CONTACTOR COIL | 43 |
| CF1 | OUTDOOR FAN CAPACITOR | 19 |
| CF2 | INDOOR MOTOR CAPACITOR | 19 |
| CN | CONNECTOR OR WIRE NUT | |
| CPR | COMPRESSOR | 18 |
| CR | COMPRESSOR RUN CAPACITOR | 19 |
| CS | COMPRESSOR START CAPACITOR | 15 |
| CSR | COMPRESSOR START RELAY COIL | 15 |
| FDR | INDOOR FAN DELAY RELAY | 44 |
| FTB | FAN TERMINAL BLOCK | 28,29 |
| IDM | INDOOR FAN MOTOR | 28 |
| IOL | INTERNAL OVERLOAD | |
| ODM | OUTDOOR FAN MOTOR | 22 |
| PCD | PRINTED CIRCUIT BOARD | 45-47 |
| PPM6 | HEATER PLUG (FEMALE) | 39,40 |
| TNS1 | CONTROL POWER TRANSFORMER | 34 |
| HPCO | HIGH PRESSURE SWITCH | 41 |
| LPCO | LOW PRESSURE SWITCH | 41 |
| FU | FUSE | 35 |
| ACR | RECTIFIER BRIDGE | 43-45 |




VIEW A-A
DETAIL OF POLARIZED PLUG CONNECTIONS TO LED LIGHTS

ICMC DIP SWITCH SETTINGS

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

•• FACTORY SETTING.

AT CONTINUOUS FAN SETTING ("G" ONLY) AIRFLOW VALUES ARE APPROXIMATELY 50% OF LISTED VALUE.

THE HEAT PUMP FAN OFF-DELAY IS THE SAME AS THE COOLING MODE.

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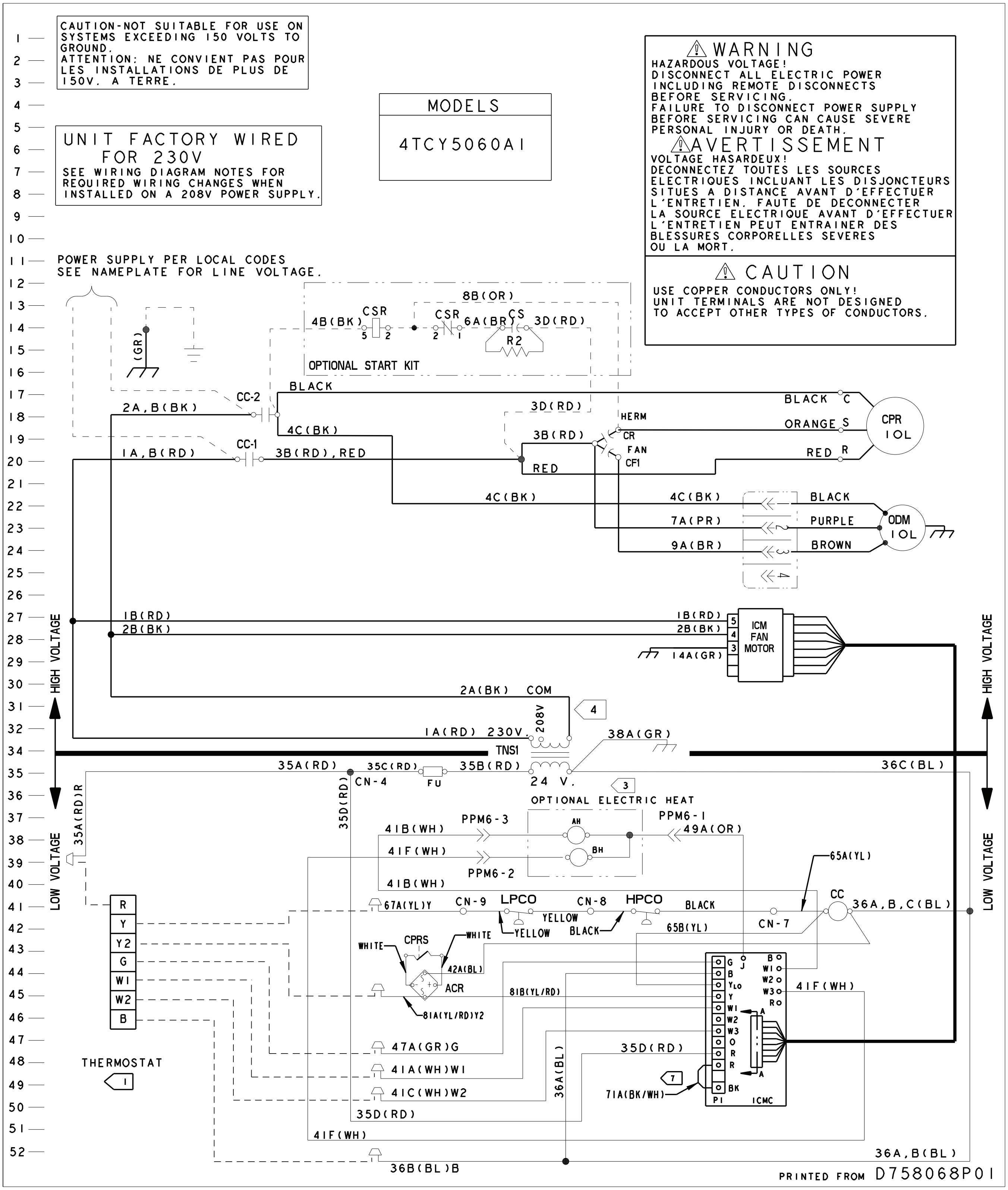
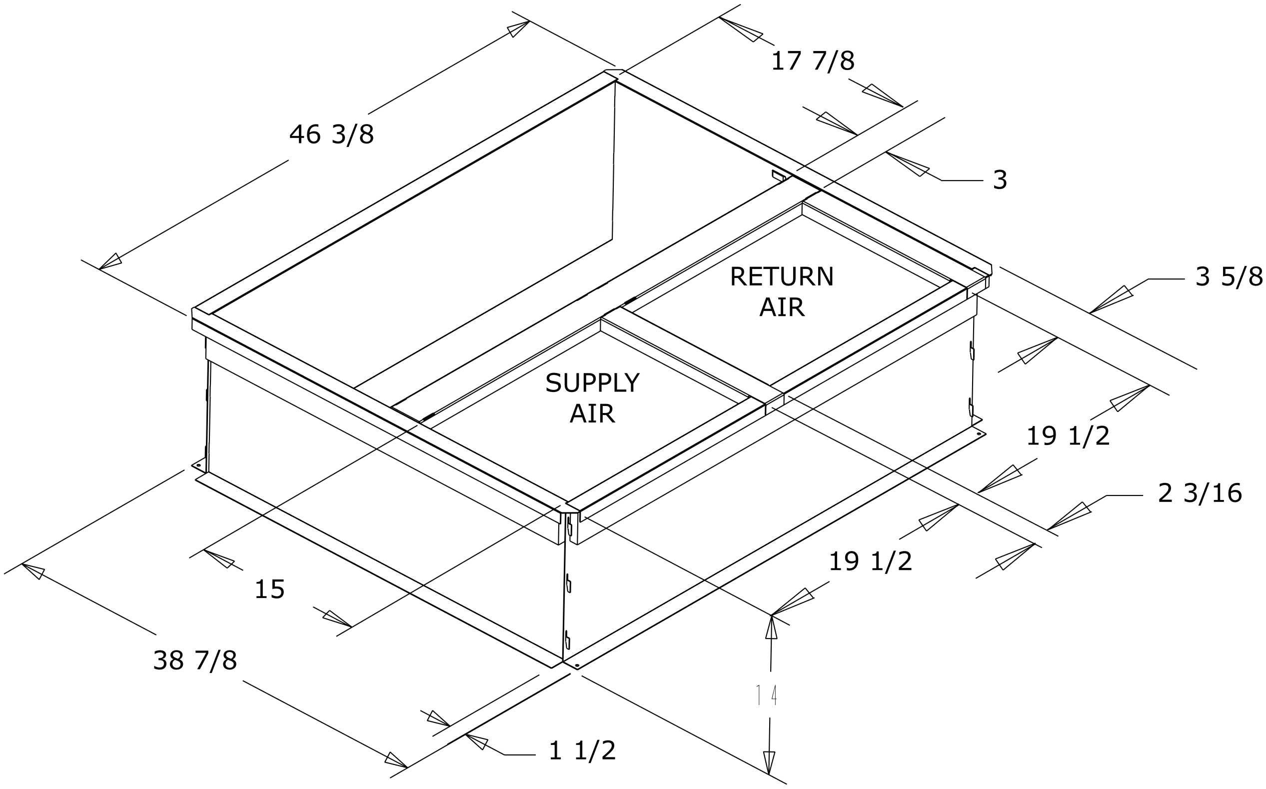
**Figure 4. Wiring Diagram - 4TCY5060**



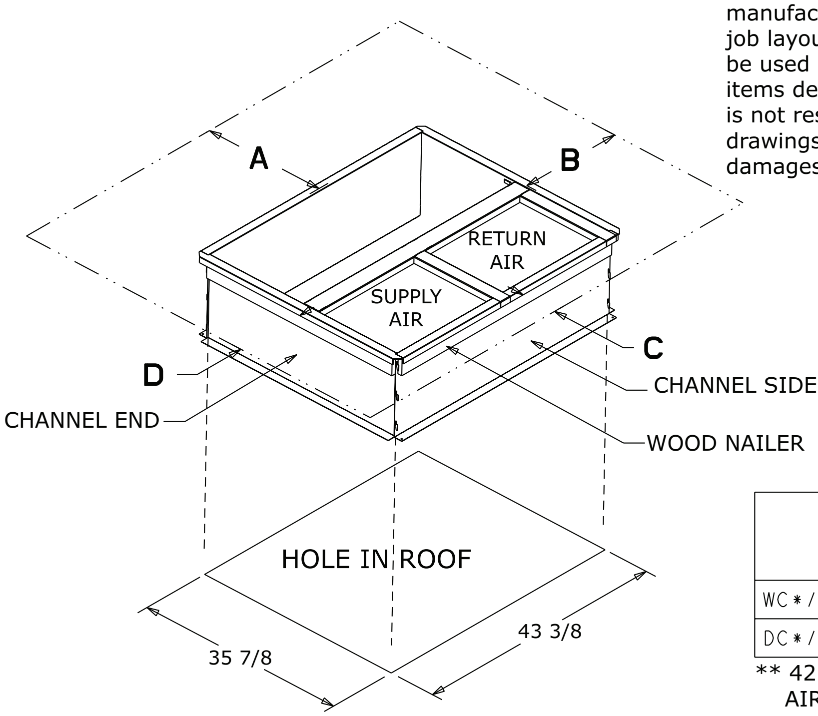
# Full Perimeter Roof Mounting Curb

**Figure 5. 2.0 — 3.0 Ton Models**

**BAYCURB050A Full Perimeter Roof Mounting Curb**




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

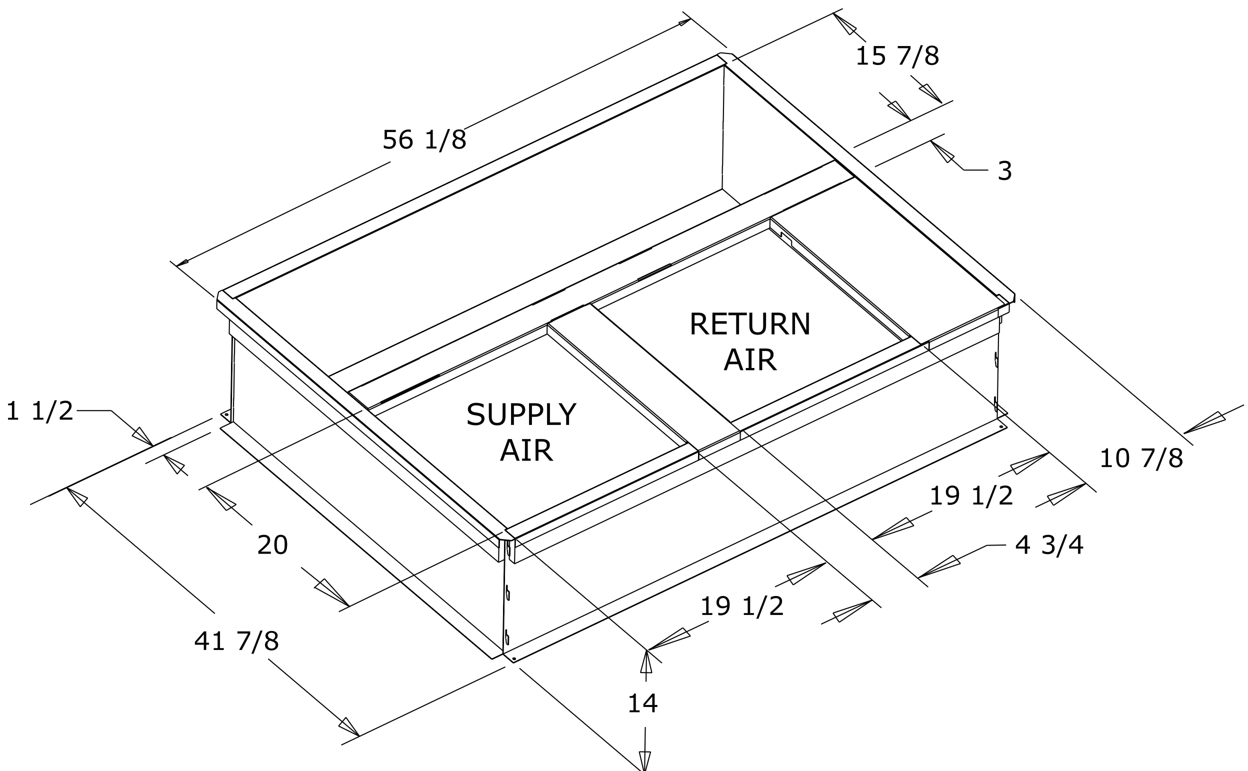



| | SERVICE CLEARANCE DIMENSIONS | | | |
|---|---|---|---|---|
| | **A** | **B** | **C** | **D** |
| WC*/TC* | 42.00 | 36.00 | 12.00** | 24.00 |
| DC*/YC* | 42.00 | 36.00 | 12.00** | 36.00 |

** 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY

**Figure 6. 3.5 — 5.0 Ton Models**

## BAYCURB051A Full Perimeter Roof Mounting Curb

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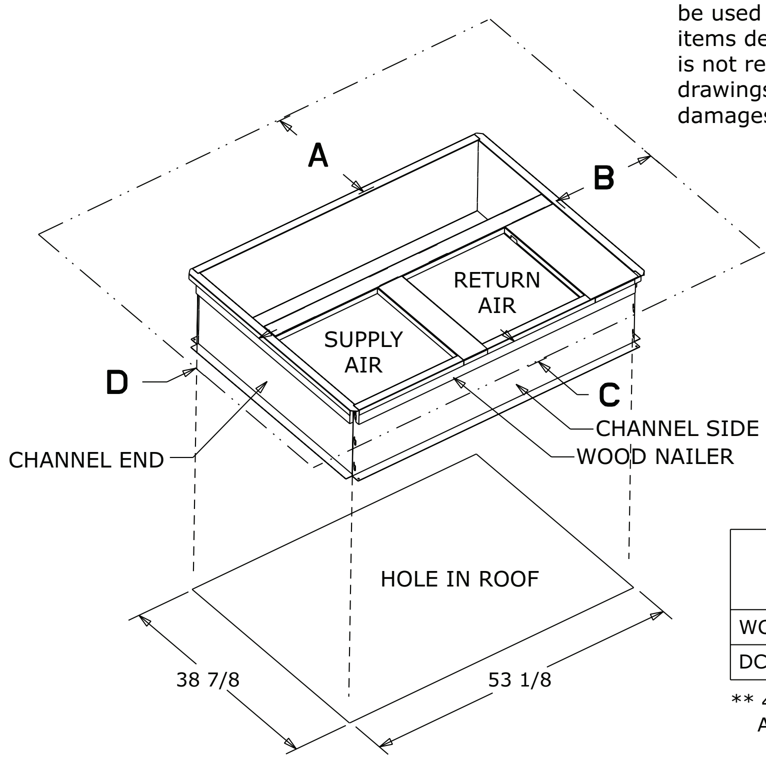



| | SERVICE CLEARANCE DIMENSIONS | | | |
|---|---|---|---|---|
| | **A** | **B** | **C** | **D** |
| WC*/TC* | 42.00 | 36.00 | 12.00** | 24.00 |
| DC*/YC* | 42.00 | 36.00 | 12.00** | 36.00 |

** 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY

# Optional Equipment — Filter Rack

**Figure 7. BAYFLTR101 Filter Rack (2.0 – 3.0 Ton Models)**
**BAYFLTR201 (3.5 – 5.0 Ton Models)**
**(Mounts in Filter/Coil Section)**

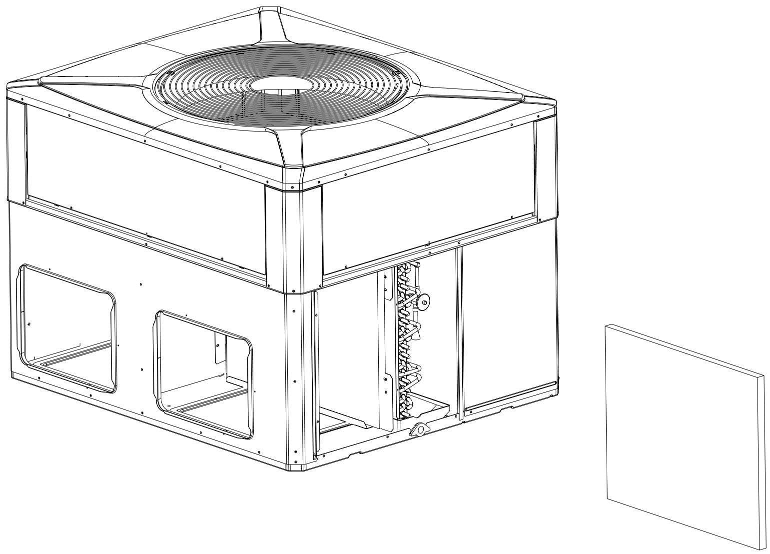
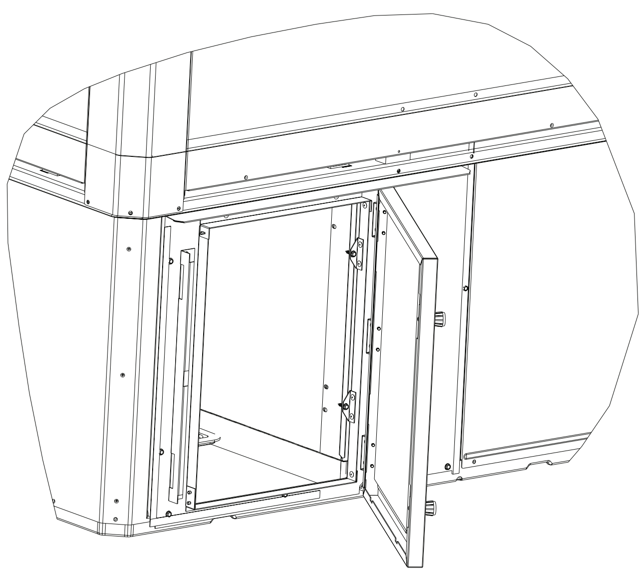


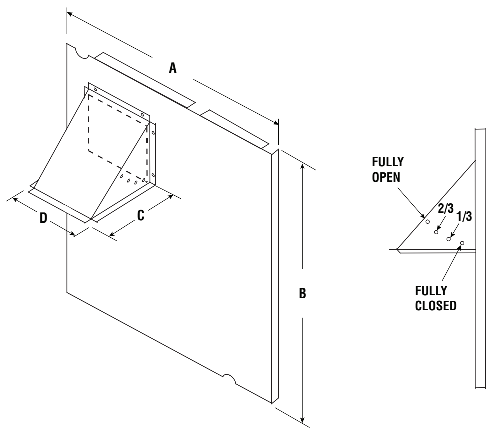
**Figure 8. BAYACCDOR1A Hinged Filter Access Door (2.0 – 3.0 Ton Models)**
**BAYACCDOR2A (3.5 – 5.0 Ton Models)**
**Replaces Filter/Coil Access Panel**



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

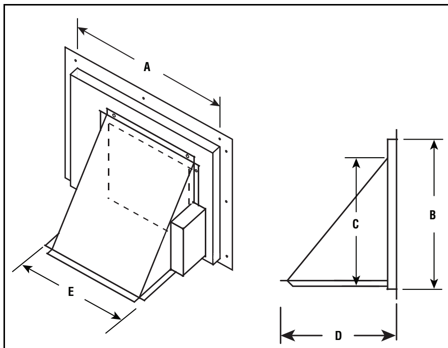
# Optional Equipment — Outside Air Damper

**Table 20. BAYOSAH001 and 002A**




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

**Table 21. BAYDMPR101 and 102A, 25% Motorized Outside Air Damper (Mounts Over Horizontal Return Air Opening)**

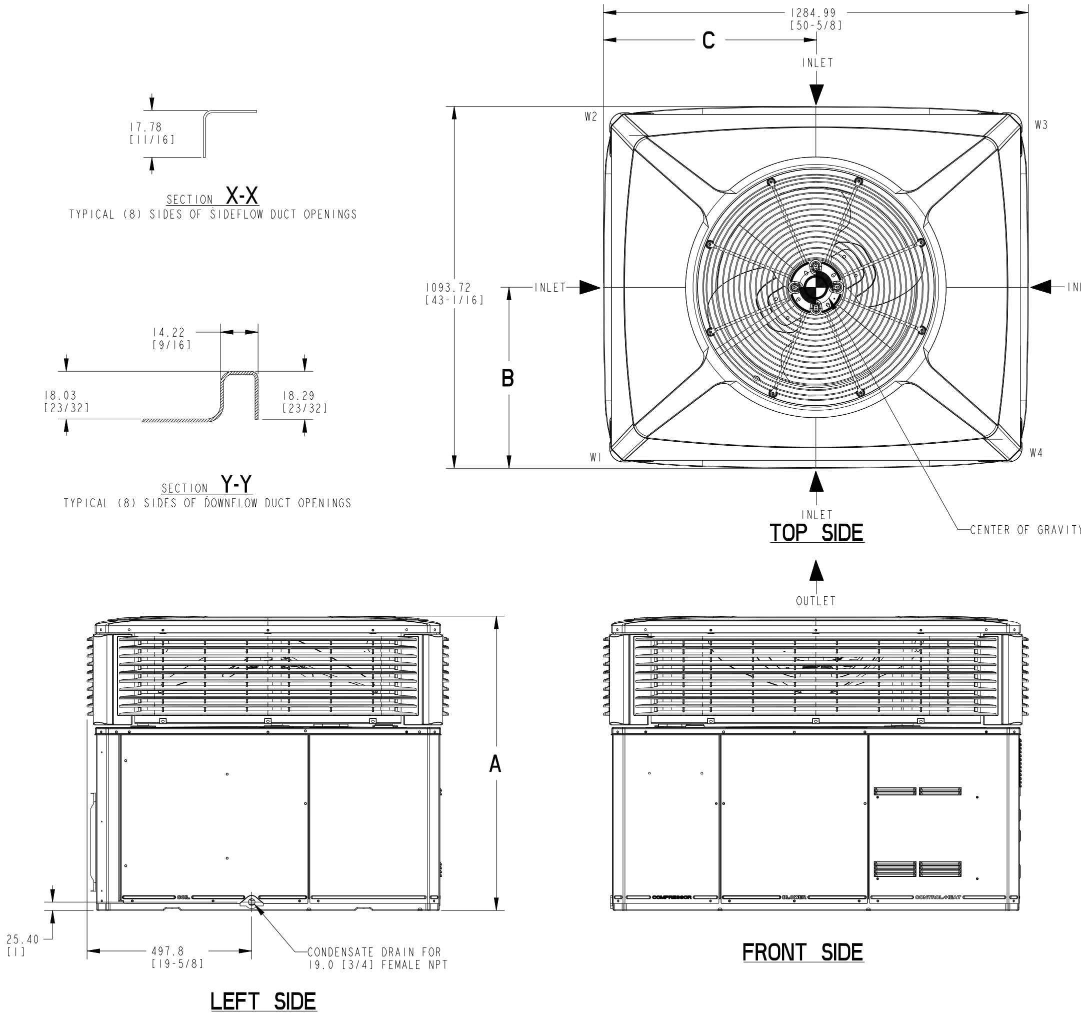



| Manual Fresh Air Model | Unit Application Models | A | B | C | D | E |
|---|---|---|---|---|---|---|
| BAYDM-PR101A | 2.0 — 3.0 Ton | 15–13/16″ | 11–13/16″ | 10–1/4″ | 11–1/2″ | 12–1/4″ |
| BAYDM-PR102A | 3.5 — 5.0 Ton | 18–3/16″ | 15–1/8″ | 10–1/4″ | 11–1/2″ | 12–1/4″ |

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

# Outline Drawing

**Figure 9. 2.0 — 3.0 Ton Models**




| RECOMMENDED SERVICE CLEARANCE MM/IN. | | |
|---|---|---|
| | | WITH ECONOMIZER |
| BACK SIDE | 304.8 [12] | 762.0 [30] |
| LEFT SIDE | 762.0 [30] | 914.4 [36] |
| RIGHT SIDE | 609.6 [24] | - |
| FRONT SIDE | 1066.8 [42] | - |

| CLEARANCE TO COMBUSTIBLE MATERIAL MM/IN. | |
|---|---|
| BOTTOM | 0 |
| BACK SIDE | 25.4 [1] |
| LEFT SIDE | 152.4 [6] |
| RIGHT SIDE | 152.4 [6] |
| FRONT SIDE | 304.8 [12] |
| TOP | 914.4 [36] |

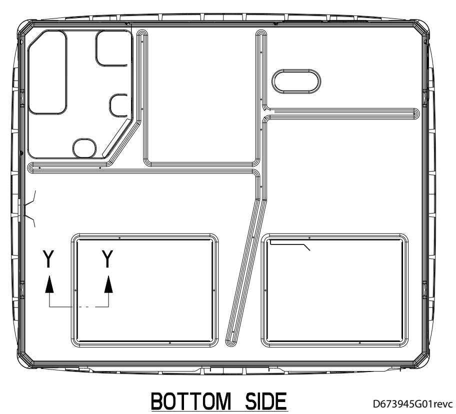
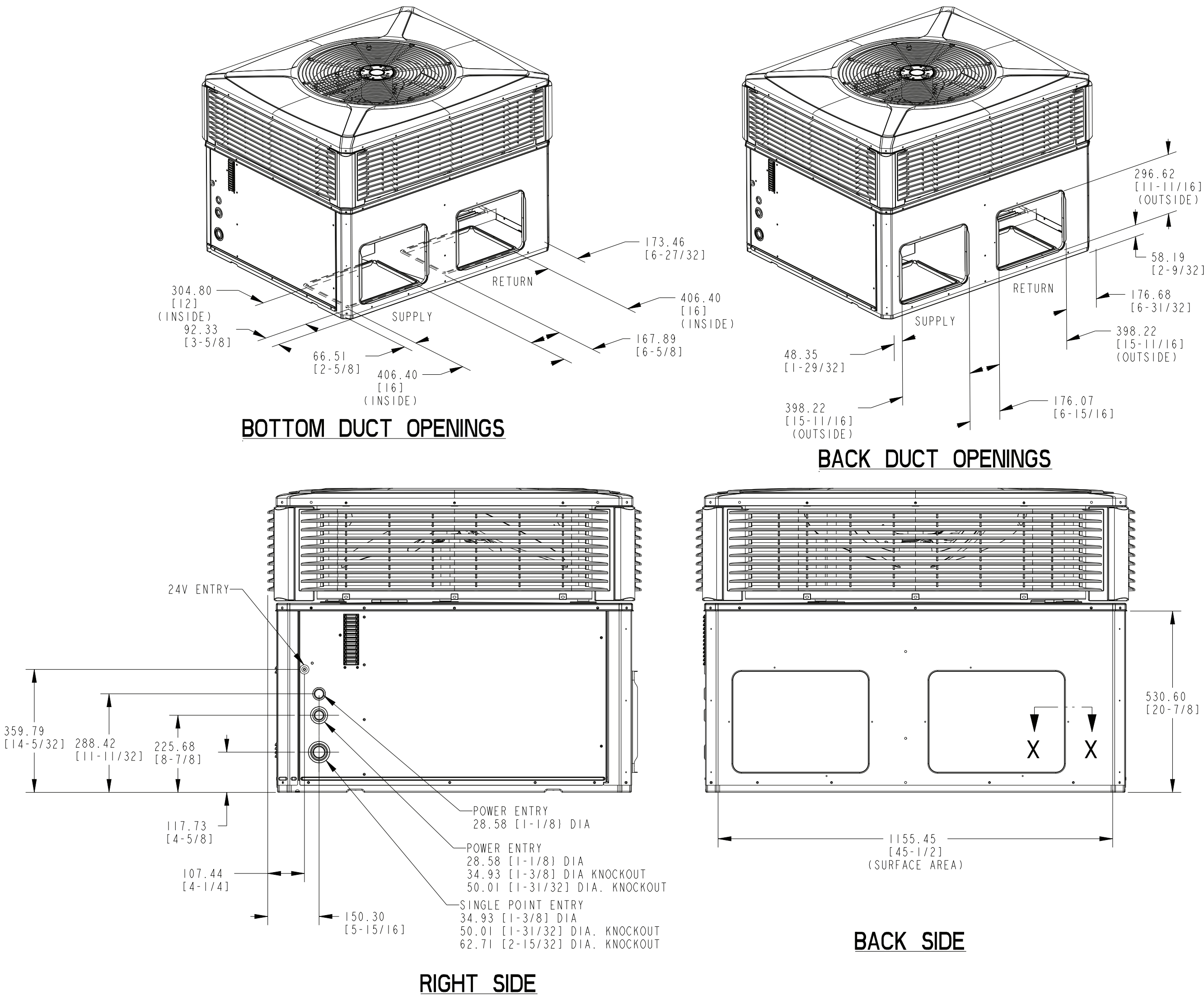


**Figure 10. 2.0 — 3.0 Ton Models**




| MODEL | HEIGHT MM/IN. | APPROX. CORNER WEIGHT - KG/LBS | | | | SHIPPING WEIGHT KG/LBS | TOTAL UNIT WEIGHT KG/LBS | CENTER OF GRAVITY MM/IN. | |
|---|---|---|---|---|---|---|---|---|---|
| | A | W1 | W2 | W3 | W4 | | | B | C |
| 4TCY4024/030 | 898.53 [35-3/8] | 56.7 [125] | 35.8 [79] | 25.4 [56] | 39.9 [88] | 201.6 [444] | 157.9 [348] | 401.3 [15.8] | 508.0 [20.0] |
| 4TCY5024 | 898.53 [35-3/8] | 51.8 [114] | 32.7 [72] | 23.2 [51] | 36.5 [80] | 176.0 [388] | 144.2 [318] | 401.3 [15.8] | 508.0 [20.0] |
| 4TCY4036 | 949.33 [37-3/8] | 57.6 [127] | 36.3 [80] | 25.9 [57] | 40.8 [90] | 204.3 [450] | 160.6 [354] | 401.3 [15.8] | 508.0 [20.0] |
| 4TCY5030 | 949.33 [37-3/8] | 56.7 [125] | 35.8[79] | 25.4 [56] | 39.9 [88] | 189.6 [418] | 157.9 [348] | 401.3 [15.8] | 508.0 [20.0] |
| 4TCY5036 | 949.33 [37-3/8] | 57.4 [126] | 36.2 [80] | 25.7 [57] | 40.4 [89] | 191.4 [422] | 159.7 [352] | 401.3 [15.8] | 508.0 [20.0] |
| 4WCY4024/030 | 898.53 [35-3/8] | 57.6 [127] | 36.3 [80] | 26.3 [58] | 41.7 [92] | 205.7 [453] | 161.9 [357] | 401.3 [15.8] | 515.6 [20.3] |
| 4WCY4036 | 949.33 [37-3/8] | 60.8 [134] | 38.1 [84] | 27.2 [60] | 42.6 [94] | 212.5 [468] | 168.7 [372] | 401.3 [15.8] | 508.0 [20.0] |
| 4WCZ6036 | 949.33 [37-3/8] | 60.8 [134] | 38.1 [84] | 27.2 [60] | 42.6 [94] | 212.5 [468] | 168.7 [372] | 401.3 [15.8] | 508.0 [20.0] |
| 4WCY5024 | 898.53 [35-3/8] | 57.6 [127] | 36.3 [80] | 26.3 [58] | 41.7 [92] | 205.7 [453] | 161.9 [357] | 401.3 [15.8] | 515.6 [20.3] |
| 4WCY5030/036 | 949.33 [37-3/8] | 60.8 [134] | 38.1 [84] | 27.2 [60] | 42.6 [94] | 212.5 [468] | 168.7 [372] | 401.3 [15.8] | 508.0 [20.0] |

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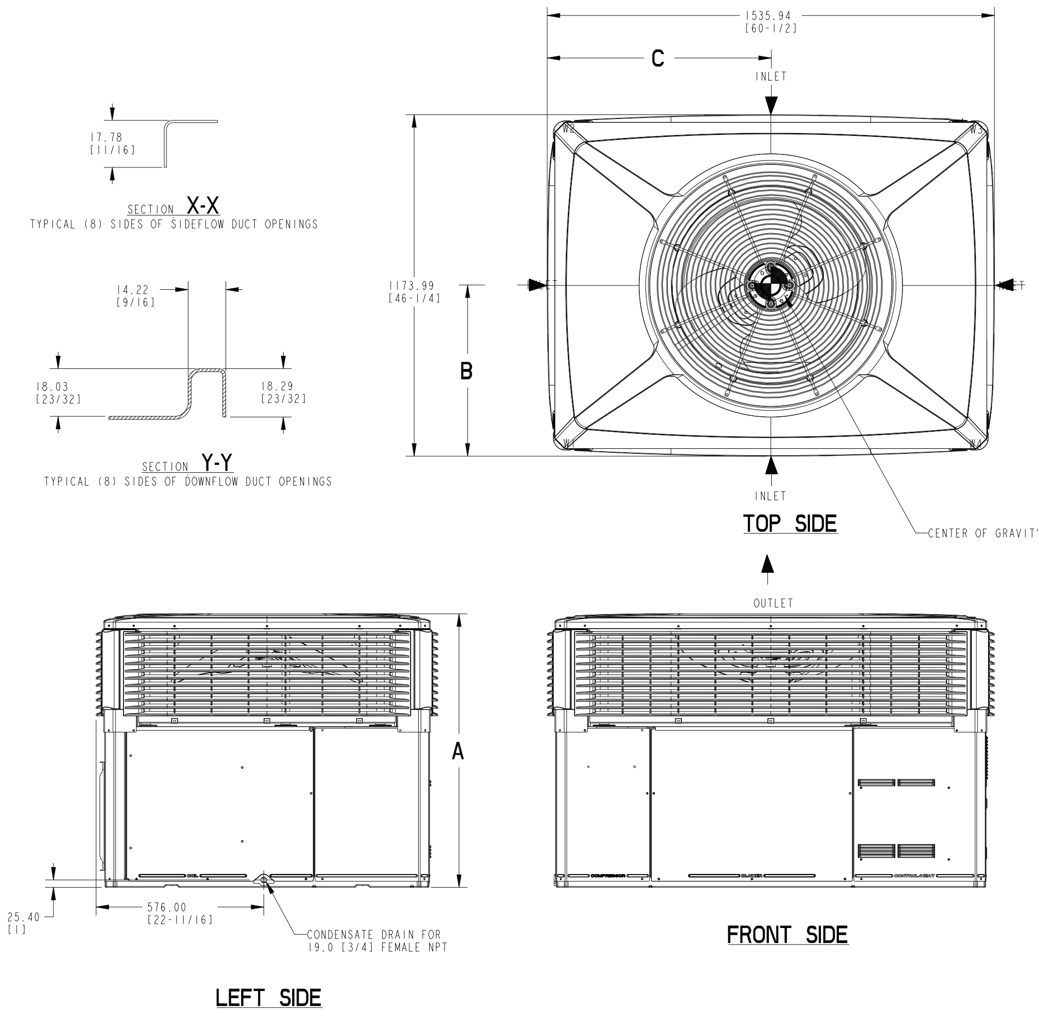
**Figure 11. 3.5 — 5.0 Ton Models**




| RECOMMENDED SERVICE CLEARANCE MM/IN. | | |
|---|---|---|
| | | WITH ECONOMIZER |
| BACK SIDE | 304.8 [12] | 762.0 [30] |
| LEFT SIDE | 914.4 [36] | 1066.8 [42] |
| RIGHT SIDE | 609.6 [24] | - |
| FRONT SIDE | 762.0 [30] | - |

| CLEARANCE TO COMBUSTIBLE MATERIAL MM/IN. | |
|---|---|
| BOTTOM | 0 |
| BACK SIDE | 25.4 [1] |
| LEFT SIDE | 152.4 [6] |
| RIGHT SIDE | 152.4 [6] |
| FRONT SIDE | 304.8 [12] |
| TOP | 914.4 [36] |

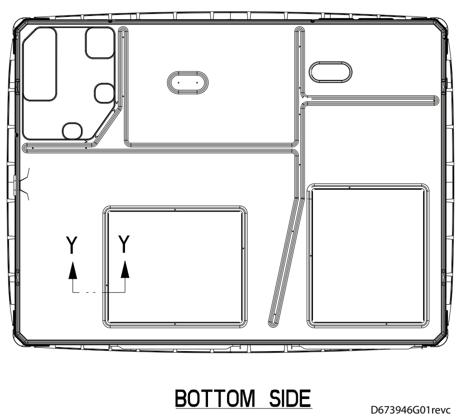
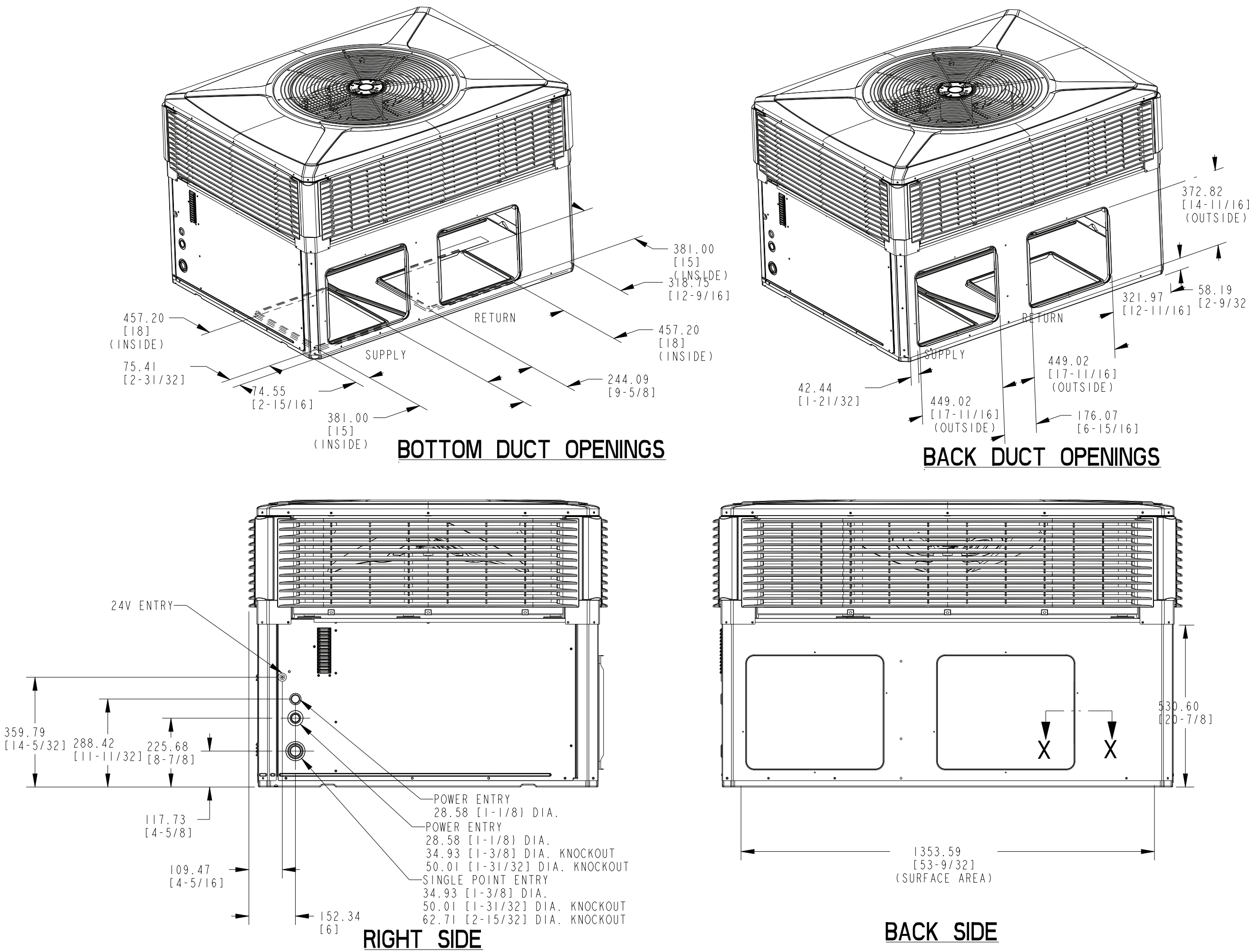


**Figure 12. 3.5 — 5.0 Ton Models**




| MODEL | HEIGHT MM/IN. | APPROX. CORNER WEIGHT - KG/LBS | | | | SHIPPING WEIGHT KG/LBS | TOTAL UNIT WEIGHT KG/LBS | CENTER OF GRAVITY MM/IN. | |
|---|---|---|---|---|---|---|---|---|---|
| | A | W1 | W2 | W3 | W4 | | | B | C |
| 4TCY4042/048A | 949.33 [37-3/8] | 76.2 [168] | 47.6 [105] | 35.8 [79] | 57.6 [127] | 275.6 [607] | 217.3 [479] | 426.7 [16.8] | 635.0 [25.0] |
| 4TCY4048B | 949.33 [37-3/8] | 78.0 [172] | 49.4 [109] | 37.6 [83] | 59.4 [131] | 282.5 [623] | 224.4 [495] | 426.7 [16.8] | 635.0 [25.0] |
| 4TCY4060 | 1050.93 [41-3/8] | 78.9 [174] | 46.7 [103] | 34.9 [77] | 59.1 [130] | 277.8 [612] | 219.5 [484] | 414.0 [16.3] | 635.0 [25.0] |
| 4TCY5042 | 1050.93 [41-3/8] | 75.3 [166] | 47.6 [105] | 33.7 [74] | 53.0 [117] | 248.1 [547] | 209.6 [462] | 414.0 [16.3] | 635.0 [25.0] |
| 4TCY5048 | 1050.93 [41-3/8] | 79.0 [174] | 49.9 [110] | 35.4 [78] | 55.6 [123] | 258.5 [570] | 220.0 [485] | 414.0 [16.3] | 635.0 [25.0] |
| 4TCY5060 | 1050.93 [41-3/8] | 81.0 [179] | 51.2 [113] | 36.3 [80] | 57.0 [126] | 264.0 [582] | 225.4 [497] | 414.0 [16.3] | 635.0 [25.0] |
| 4WCY4042/048A | 949.33 [37-3/8] | 68.9 [152] | 40.8 [90] | 30.8 [68] | 52.2 [115] | 275.6 [607] | 217.5 [479] | 414.0 [16.3] | 635.0 [25.0] |
| 4WCY4048B | 949.33 [37-3/8] | 78.0 [172] | 49.4 [109] | 37.6 [83] | 59.4 [131] | 282.5 [623] | 224.4 [495] | 414.0 [16.3] | 635.0 [25.0] |
| 4WCY4060B | 1050.93 [41-3/8] | 79.8 [176] | 50.8 [112] | 38.6 [85] | 60.8 [134] | 288.0 [635] | 230.0 [507] | 414.0 [16.3] | 635.0 [25.0] |
| 4WCY4060A3 | 1050.93 [41-3/8] | 80.3 [177] | 47.6 [105] | 35.8 [79] | 60.8 [134] | 282.8 [623] | 224.5 [495] | 414.0 [16.3] | 635.0 [25.0] |
| 4WCZ6048 | 1050.93 [41-3/8] | 68.9 [152] | 40.8 [90] | 30.8 [68] | 52.2 [115] | 275.6 [607] | 217.5 [479] | 414.0 [16.3] | 635.0 [25.0] |
| 4WCZ6060 | 1050.93 [41-3/8] | 80.3 [177] | 47.6 [105] | 35.8 [79] | 60.8 [134] | 282.8 [623] | 224.5 [495] | 414.0 [16.3] | 635.0 [25.0] |
| 4WCY5042/048 | 1050.93 [41-3/8] | 68.9 [152] | 40.8 [90] | 30.8 [68] | 52.2 [115] | 275.6 [607] | 217.5 [479] | 414.0 [16.3] | 635.0 [25.0] |
| 4WCY5060 | 1050.93 [41-3/8] | 80.3 [177] | 47.6 [105] | 35.8 [79] | 60.8 [134] | 282.8 [623] | 224.5 [495] | 414.0 [16.3] | 635.0 [25.0] |

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# Mechanical Specifications

**General**

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

**Unit Casing**

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

**Compressor**

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

**Refrigeration System**

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

**Evaporator Coil (2–4 Ton Models)** All aluminum micro channel, extruded tubes, mechanically bonded to aluminum fins, and factory pressure and leak tested at 480 —650 psig. All units have TXV to control refrigerant flow.

**Evaporator Coil (5 Ton Model)** Internally enhanced 3/8” OD seamless copper tubing mechanically bonded to aluminum fins, factory pressure and leak tested at 480 – 650 psig. All units have TXV to control refrigerant flow.

**Condenser Coil**

The Spine Fin ™ condenser coil shall be continuously wrapped, corrosion resistant all aluminum with minimum brazed joints. This coil is 3/8” OD seamless aluminum tubing glued to a continuous aluminum fin. Coils are lab tested to withstand 2.000 pounds of pressure per square inch. The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

**Indoor Air Fan**

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

**Outdoor Fan**

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

**System Controls**

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

**Accessories Roof Curb**

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

**Electric Heaters**

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

### Single Source Power Entry

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

### 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 BAYRLAY004A relay kit to interface the economizer to the heat pump.

### Manual Outside Air Dampers

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

### 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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