

FEATURES

WARRANTY

All covered components - five years in residential applications, one year in non-residential applications

Refer to Limited Warranty Certificate included with each unit for additional details.

APPROVALS

Tested with matching air conditioners and heat pump units in the environmental test room in accordance with AHRI Standard 210/240.

Optional electric heaters are rated in accordance with US Department of Energy (DOE) test procedures and Federal Trade Commission (FTC) labeling regulations.

Blower performance data according to unit tests conducted in the air test chamber.

Air handlers are UL Listed to US and Canadian safety standards and components within are bonded for grounding to meet safety standards for servicing required by CEC and NEC.

Air handler units are approved for installation in manufactured housing and mobile homes.

ISO 9001 Registered Manufacturing Quality System.

APPLICATIONS

1.5 to 5 ton nominal sizes.

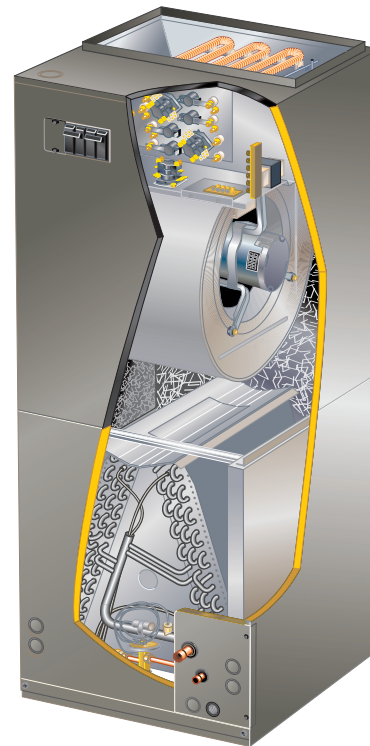
Upflow or horizontal applications. Downflow applications with optional conversion kit.

Wide-range check and expansion valve is factory installed.

See bulletins in section Air Conditioners for cooling capacities.

See bulletins in section Heat Pump Outdoor Units for cooling and heating capacities.

Optional field installed electric heaters available in several sizes for additive heating capacity.



REFRIGERANT SYSTEM

Enhanced aluminum alloy tube/enhanced fin coil for superior corrosion resistance.

Internally designed and fabricated coils.

Aluminum tubing, hairpins, distributor and header tubes.

Ripple-edged aluminum fins.

Twin coil construction assembled in a "A" configuration for large surface area.

Provides excellent heat transfer and low air resistance for maximum efficiency.

Precise circuiting for uniform refrigerant distribution.

Lanced fins provide maximum exposure of fin surface to air stream.

Rifled tubing provides superior heat transfer.

Coil thoroughly factory tested under high pressure to ensure leakproof construction.

Refrigerant Line Connections

Copper refrigerant sweat connections on both liquid and suction lines for easy brazing.

Lines extend outside of the cabinet for ease of connection.

See dimension drawings for locations.

Check and Expansion Valve Furnished

For use with R-410A systems.

Wide range valve with Chatleff style fitting.

Factory installed on all models, internal to cabinet.

FEATURES

BLOWER

Power Saver™ Constant Torque Blower Motor

Programmable high efficiency multi-speed blower motor. By maintaining constant torque output, blower motor can deliver more uniform (but not constant) airflow over the static pressure range.

Programmable multi-speed operation is achieved by the use of an ECM (Electronically Commutated Motor) motor.

Leadless blower motor features simple plug-in connections.

Choice of blower speeds is available. See Blower Data tables.

Blower speed change is easily accomplished by a simple wiring change.

Blower Assembly

Designed and built, direct drive blower.

Each blower is statically and dynamically balanced as an assembly before installation in the unit.

Blower motor is resiliently mounted to blower assembly.

Blower slides out of cabinet for servicing.

CABINET

Constructed of heavy-gauge galvanized steel.

Completely insulated with thick fiberglass insulation.

Pre-painted steel cabinets have mildly textured enamel finish with primer coat on unpainted side of all panels.

Units are shipped in one piece but may be disassembled into two separate sections for ease of installation in tight applications. See dimension drawings.

Thick rubber gasket between sections of the two piece cabinets provides an air tight seal.

No external screw heads on sides of cabinet for tight installations without damage to walls or woodwork.

Removable panels provide complete service access.

Electrical inlets provided in sides and top of cabinet.

See dimension drawings for locations.

Low Leakage Cabinet

All models have less than 2% air leakage and meet ANSI/ASHRAE Standard 193-2010 "Method of Test for Determining the Air Tightness of HVAC Equipment".

Upflow/Horizontal Capability (Optional Downflow)

Shipped for upflow and horizontal left-hand discharge.

May be field converted to horizontal right-hand air discharge by repositioning horizontal drain pan.

Optional downflow kit available for field conversion.

Dual Position Drain Pans

Drain pans designed for upflow, downflow or horizontal applications.

Deep, corrosion resistant plastic drain pans have dual pipe drains.

See dimension drawings.

FEATURES

OPTIONAL ACCESSORIES

Downflow Combustible Flooring Floor Base

Base is required for models with electric heat installed in downflow position on combustible floors.

Downflow Conversion Kit

Required for field conversion to downflow position. Kit consists of drip shields and 2 brackets for repositioning coil and drain pan. See Specifications table.

Horizontal Support Frame Kit

Provides support of unit in horizontal applications.

Consists of (2) 1 x 1-1/2 x 32-5/8 in. and (2) 1 x 3 x 53-7/8 in. painted heavy gauge cold rolled steel support channels with assembly and suspending holes.

Bolts and nuts furnished for field assembly.

Suspending rods must be field provided.

Side Return Unit Stand (Upflow Only)

Raises unit 16 in. above floor for side return air duct connection.

Eliminates need for wooden platform construction.

All aluminum construction.

Two adjustable frames fit -018/024 thru -060 models.

Wall Hanging Bracket Kit (Upflow Only)

Allows unit to be hung on wall at any height.

Consists of heavy-gauge steel support brackets (one for air handler, one for wall mount).

Screws furnished for fastening one bracket to unit.

Bolts for fastening one bracket to wall are field provided.

CONTROLS

Transformer and Blower Cooling Relay

24 volt transformer with in-line fuse and blower cooling relay furnished as standard.

Factory installed in the unit control box.

Terminal strip furnished.

OPTIONAL ELECTRIC HEAT

Field install internal to unit cabinet.

Available in several voltages and kW sizes. See Electric Heat tables.

Helix wound nichrome heating elements exposed directly in air stream resulting in instant heat transfer, low element temperatures and long service life.

Each element equipped with accurately located limit control with fixed temperature off setting and automatic reset.

Supplemental thermal cutoff limit control, provides positive protection in case of excessive temperatures.

Thermal sequencer relay brings elements on and off line, in sequence and equal increments, with time delay between each.

Initiates and terminates blower operation.

Heating control relay(s) furnished as standard.

Control box and access cover constructed of heavy gauge galvanized steel.

Factory assembled with controls installed and wired.

Electric heat low voltage controls plug-in to air handler.

Circuit Breaker Models

ECB27 heaters are equipped with circuit breakers for overload and short circuit protection.

Factory wired and mounted on electric heat unit.

Current sensitive and temperature actuated.

Manual reset.

Circuit breakers qualify as disconnect means at unit in many areas, eliminate the need for field provided disconnect. Consult local electrical code in your area.

Optional Accessories

Circuit Breaker Cover Kit

Flexible plastic cover protects circuit breaker.

Recommended in areas with high humidity or unconditioned areas to prevent nuisance tripping.

FEATURES

Single-Point Power Source Control Box

Control Box may be used with optional electric heat when single power supply is connected to multi-circuit electric heat.

Field installs external to the unit cabinet on either side or top.

Constructed of heavy gauge steel, baked enamel finish, pre punched mounting holes, electrical inlet knockouts, and terminal strip.

Removable cover provides easy access.

Dimensions (H x W x D) - 7 x 7 x 4 in.

INDOOR AIR QUALITY

Air Filter

Tool-less access to filter area for quick and easy servicing.

Disposable frame type filter furnished and factory installed in rails in cabinet.

See Specifications tables for sizes.

INSTALLATION CLEARANCES WITH ELECTRIC HEAT

| | |
|---------------------------------------|----------------|
| Cabinet | 0 inch (0 mm) |
| To Plenum | 1 inch (25 mm) |
| To Outlet Duct within 3 feet (914 mm) | 1 inch (25 mm) |
| Floor | See Note #1 |
| Service / Maintenance | See Note #2 |

¹ Units installed on combustible floors in the downflow position with electric heat require optional downflow combustible flooring base.

² Front service access - 24 inches (610 mm) minimum.

NOTE - If cabinet depth is more than 24 inches (610 mm), allow a minimum of the cabinet depth plus 2 inches (51 mm).

SPECIFICATIONS

| General Data | | Model Number | BCE7E18 | BCE7E24 | BCE7E30 | BCE7E36 |
|--|---|---------------------|----------------|----------------|----------------|----------------|
| | Nominal tonnage | | 1.5 | 2 | 2.5 | 3 |
| Connections | Suction (vapor) line (o.d.) - in. sweat | | 3/4 | 3/4 | 3/4 | 3/4 |
| | Liquid line (o.d.) - in. sweat | | 3/8 | 3/8 | 3/8 | 3/8 |
| | Condensate - in. fpt | | (2) 3/4 | (2) 3/4 | (2) 3/4 | (2) 3/4 |
| Indoor Coil | Net face area - ft. ² | | 4.44 | 4.44 | 5.0 | 5.0 |
| | Tube outside diameter - in. | | 3/8 | 3/8 | 3/8 | 3/8 |
| | Number of rows | | 3 | 3 | 3 | 3 |
| | Fins per inch | | 14 | 14 | 14 | 14 |
| Blower | Wheel nominal diameter x width - in. | | 10 x 8 | 10 x 8 | 11 x 8 | 11 x 8 |
| | Blower motor output - hp | | 1/2 | 1/2 | 1/2 | 1/2 |
| ¹ Filters | Size of filter - in. | | 20 x 20 x 1 | 20 x 20 x 1 | 20 x 20 x 1 | 20 x 20 x 1 |
| Shipping Data -1 package - lbs. | | | 137 | 137 | 150 | 150 |

ELECTRICAL DATA

| | | 208/230V-1ph | 208/230V-1ph | 208/230V-1ph | 208/230V-1ph |
|---|--------------------------|---------------------|---------------------|---------------------|---------------------|
| | Voltage - 1 phase - 60hz | | | | |
| ² Maximum overcurrent protection (unit only)- 208/230v | | 15 | 15 | 15 | 15 |
| Minimum circuit ampacity (unit only) - 208/230V | | 5 | 5 | 5 | 5 |
| Blower Motor Full Load Amps - 208/230V | | 4.1 | 4.1 | 4.1 | 4.1 |

OPTIONAL ACCESSORIES - ORDER SEPARATELY

| | | | | |
|--|-------------------|--------------|--------------|--------------|
| Downflow Combustible Flooring Base | 44K15 | 44K15 | 44K15 | 44K15 |
| Downflow Conversion Kit | 83M57 | 83M57 | 83M57 | 83M57 |
| Electric Heat - See Electric Heat Data tables | 5 to 20 kW | | | |
| Electric Heat Circuit Breaker Cover Kit | 82W01 | 82W01 | 82W01 | 82W01 |
| Horizontal Support Frame Kit | 56J18 | 56J18 | 56J18 | 56J18 |
| Side Return Unit Stand (Upflow Only) | 45K32 | 45K32 | 45K32 | 45K32 |
| Single Point Power Source Control Box | 21H39 | 21H39 | 21H39 | 21H39 |
| Wall Hanging Bracket Kit (Upflow Only) | 45K30 | 45K30 | 45K30 | 45K30 |

¹ Disposable frame type filter.

² HACR type circuit breaker or fuse.

³ Blower motor is 460V - 1 phase. Optional electric heat is 460V - 3 phase.

SPECIFICATIONS

| General Data | | Model Number | BCE7E042 | BCE7E048 | BCE7E060 |
|--------------------------------------|---|---------------------|-----------------|-----------------|-----------------|
| | Nominal tonnage | | 3.5 | 4 | 5 |
| Connections | Suction (vapor) line (o.d.) - in. sweat | | 7/8 | 7/8 | 7/8 |
| | Liquid line (o.d.) - in. sweat | | 3/8 | 3/8 | 3/8 |
| | Condensate - in. fpt | | (2) 3/4 | (2) 3/4 | (2) 3/4 |
| Indoor Coil | Net face area - ft. ² | | 7.22 | 7.22 | 8.33 |
| | Tube outside diameter - in. | | 3/8 | 3/8 | 3/8 |
| | Number of rows | | 3 | 3 | 3 |
| | Fins per inch | | 14 | 14 | 14 |
| Blower | Wheel nominal diameter x width - in. | | 12 x 9 | 12 x 9 | 12 x 9 |
| | Blower motor output - hp | | 1 | 1 | 1 |
| ¹ Filters | Size of filter - in. | | 20 x 24 x 1 | 20 x 24 x 1 | 20 x 24 x 1 |
| Shipping Data -1 package lbs. | | | 186 | 186 | 199 |

ELECTRICAL DATA

| | | 208/230V-1ph | 208/230V- 1ph | 208/230V- 1ph |
|--|--|---------------------|----------------------|----------------------|
| | Voltage - 1 phase - 60hz | | | |
| | ² Maximum overcurrent protection (unit only) - 208/230V | 15 | 15 | 15 |
| | Minimum circuit ampacity (unit only) - 208/230V | 10 | 10 | 10 |
| | Blower Motor Full Load Amps - 208/230V | 7.6 | 7.6 | 7.6 |

OPTIONAL ACCESSORIES - ORDER SEPARATELY

| | | | |
|--|-------------------|--------------|--------------|
| Downflow Combustible Flooring Base | 44K15 | 44K15 | 44K15 |
| Downflow Conversion Kit | 83M57 | 83M57 | 83M57 |
| Electric Heat - See Electric Heat Data tables | 5 to 20 kW | | |
| Electric Heat Circuit Breaker Cover Kit | 82W01 | 82W01 | 82W01 |
| Horizontal Support Frame Kit | 56J18 | 56J18 | 56J18 |
| Side Return Unit Stand (Upflow Only) | 45K32 | 45K32 | 45K32 |
| Single Point Power Source Control Box | 21H39 | 21H39 | 21H39 |
| Wall Hanging Bracket Kit (Upflow Only) | 45K30 | 45K30 | 45K30 |

¹ Disposable frame type filter.

² HACR type circuit breaker or fuse.

³ Blower motor is 460V - 1 phase. Optional electric heat is 460V - 3 phase.

BLOWER DATA

BCE7E-018 BLOWER PERFORMANCE

| External Static Pressure in. w.g. | Air Volume and Motor Watts | | | | | | | | | |
|-----------------------------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Tap 1 | | Tap 2 | | Tap 3 | | Tap 4 | | Tap 5 | |
| | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts |
| .10 | 717 | 66 | 707 | 63 | 735 | 74 | 781 | 81 | 959 | 133 |
| .20 | 596 | 58 | 570 | 54 | 636 | 70 | 737 | 91 | 922 | 144 |
| .30 | 473 | 56 | 430 | 48 | 603 | 77 | 697 | 101 | 877 | 150 |
| .40 | 402 | 61 | 335 | 54 | 540 | 81 | 651 | 105 | 846 | 161 |
| .50 | 358 | 67 | 302 | 60 | 492 | 92 | 607 | 117 | 811 | 173 |
| .60 | 295 | 74 | 248 | 63 | 434 | 94 | 561 | 121 | 769 | 179 |
| .70 | 262 | 79 | 202 | 72 | 399 | 103 | 507 | 131 | 727 | 187 |
| .80 | N/A | N/A | N/A | N/A | 348 | 108 | 459 | 137 | 695 | 196 |

BCE7E-024 BLOWER PERFORMANCE

| External Static Pressure in. w.g. | Air Volume and Motor Watts | | | | | | | | | |
|-----------------------------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Tap 1 | | Tap 2 | | Tap 3 | | Tap 4 | | Tap 5 | |
| | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts |
| .10 | 767 | 78 | 753 | 75 | 826 | 88 | 957 | 131 | 1095 | 189 |
| .20 | 662 | 68 | 648 | 66 | 791 | 100 | 937 | 142 | 1063 | 199 |
| .30 | 615 | 76 | 612 | 77 | 750 | 108 | 895 | 149 | 1040 | 211 |
| .40 | 561 | 83 | 539 | 83 | 711 | 116 | 861 | 160 | 1010 | 226 |
| .50 | 522 | 87 | 507 | 89 | 681 | 126 | 821 | 172 | 970 | 230 |
| .60 | 450 | 96 | 438 | 93 | 628 | 134 | 778 | 175 | 944 | 237 |
| .70 | 419 | 100 | 411 | 103 | 584 | 142 | 750 | 186 | 905 | 248 |
| .80 | 365 | 110 | 358 | 108 | 521 | 147 | 702 | 194 | 864 | 256 |

BCE7E-030 BLOWER PERFORMANCE

| External Static Pressure in. w.g. | Air Volume and Motor Watts | | | | | | | | | |
|-----------------------------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Tap 1 | | Tap 2 | | Tap 3 | | Tap 4 | | Tap 5 | |
| | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts |
| .10 | 1061 | 115 | 1104 | 126 | 1169 | 154 | 1212 | 166 | 1278 | 200 |
| .20 | 941 | 103 | 973 | 118 | 1070 | 144 | 1157 | 173 | 1241 | 210 |
| .30 | 789 | 90 | 848 | 104 | 1019 | 151 | 1121 | 185 | 1201 | 223 |
| .40 | 640 | 83 | 789 | 111 | 991 | 165 | 1077 | 199 | 1169 | 233 |
| .50 | 525 | 93 | 728 | 118 | 946 | 175 | 1038 | 209 | 1124 | 244 |
| .60 | 469 | 101 | 629 | 128 | 900 | 181 | 1006 | 215 | 1100 | 256 |
| .70 | 434 | 104 | 581 | 139 | 851 | 194 | 956 | 230 | 1051 | 268 |
| .80 | 365 | 116 | 521 | 155 | 754 | 208 | 915 | 237 | 1000 | 275 |

BCE7E-036 BLOWER PERFORMANCE

| External Static Pressure in. w.g. | Air Volume and Motor Watts at 208V | | | | | | | | | |
|-----------------------------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Tap 1 | | Tap 2 | | Tap 3 | | Tap 4 | | Tap 5 | |
| | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts |
| .10 | 1074 | 134 | 1099 | 147 | 1264 | 206 | 1343 | 240 | 1498 | 340 |
| .20 | 962 | 121 | 1027 | 143 | 1222 | 220 | 1291 | 253 | 1467 | 344 |
| .30 | 887 | 126 | 989 | 153 | 1192 | 234 | 1269 | 266 | 1433 | 364 |
| .40 | 852 | 136 | 944 | 164 | 1144 | 242 | 1224 | 280 | 1391 | 378 |
| .50 | 791 | 150 | 894 | 172 | 1111 | 257 | 1194 | 286 | 1365 | 383 |
| .60 | 717 | 160 | 820 | 186 | 1067 | 266 | 1153 | 297 | 1320 | 398 |
| .70 | 649 | 168 | 745 | 202 | 1037 | 270 | 1118 | 309 | 1290 | 407 |
| .80 | 606 | 183 | 697 | 213 | 999 | 284 | 1081 | 317 | 1247 | 422 |

BLOWER DATA

BCE7E-042 BLOWER PERFORMANCE

| External Static Pressure in. w.g. | Air Volume and Motor Watts | | | | | | | | | |
|--------------------------------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Tap 1 | | Tap 2 | | Tap 3 | | Tap 4 | | Tap 5 | |
| | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts |
| .10 | 1282 | 177 | 1346 | 201 | 1497 | 261 | 1489 | 261 | 1723 | 396 |
| .20 | 1143 | 159 | 1278 | 204 | 1475 | 281 | 1461 | 273 | 1690 | 408 |
| .30 | 1067 | 162 | 1233 | 209 | 1447 | 297 | 1427 | 290 | 1656 | 434 |
| .40 | 1024 | 175 | 1199 | 223 | 1406 | 315 | 1407 | 305 | 1639 | 436 |
| .50 | 920 | 189 | 1154 | 235 | 1376 | 320 | 1360 | 324 | 1599 | 462 |
| .60 | 923 | 197 | 1099 | 252 | 1345 | 338 | 1328 | 336 | 1573 | 473 |
| .70 | 838 | 204 | 1022 | 267 | 1294 | 358 | 1303 | 351 | 1541 | 485 |
| .80 | 815 | 218 | 1003 | 275 | 1238 | 375 | 1228 | 373 | 1494 | 515 |

BCE7E-048 BLOWER PERFORMANCE

| External Static Pressure in. w.g. | Air Volume and Motor Watts | | | | | | | | | |
|--------------------------------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Tap 1 | | Tap 2 | | Tap 3 | | Tap 4 | | Tap 5 | |
| | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts |
| .10 | 1359 | 190 | 1509 | 257 | 1718 | 362 | 1773 | 401 | 1903 | 511 |
| .20 | 1238 | 174 | 1473 | 273 | 1690 | 380 | 1758 | 419 | 1899 | 515 |
| .30 | 1135 | 172 | 1453 | 289 | 1658 | 397 | 1707 | 434 | 1868 | 535 |
| .40 | 1090 | 180 | 1450 | 290 | 1619 | 412 | 1687 | 449 | 1830 | 553 |
| .50 | 1032 | 195 | 1374 | 315 | 1588 | 431 | 1660 | 465 | 1801 | 558 |
| .60 | 980 | 204 | 1336 | 331 | 1561 | 440 | 1618 | 472 | 1770 | 582 |
| .70 | 929 | 223 | 1295 | 339 | 1510 | 457 | 1593 | 493 | 1733 | 600 |
| .80 | 867 | 235 | 1227 | 363 | 1488 | 473 | 1552 | 508 | 1703 | 618 |

BCE7E-060 BLOWER PERFORMANCE

| External Static Pressure in. w.g. | Air Volume and Motor Watts | | | | | | | | | |
|--------------------------------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Tap 1 | | Tap 2 | | Tap 3 | | Tap 4 | | Tap 5 | |
| | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts |
| .10 | 1404 | 206 | 1704 | 340 | 1886 | 453 | 1928 | 481 | 2268 | 800 |
| .20 | 1295 | 194 | 1658 | 349 | 1849 | 467 | 1905 | 510 | 2228 | 829 |
| .30 | 1256 | 204 | 1631 | 365 | 1806 | 489 | 1869 | 525 | 2192 | 830 |
| .40 | 1199 | 217 | 1594 | 386 | 1784 | 505 | 1842 | 546 | 2169 | 856 |
| .50 | 1145 | 236 | 1549 | 394 | 1751 | 523 | 1799 | 548 | 2136 | 870 |
| .60 | 1091 | 248 | 1508 | 413 | 1720 | 534 | 1775 | 569 | 2106 | 894 |
| .70 | 978 | 270 | 1474 | 433 | 1683 | 549 | 1741 | 592 | 2089 | 907 |
| .80 | 946 | 279 | 1440 | 453 | 1655 | 566 | 1709 | 611 | 2050 | 925 |

REPLACEMENT CIRCUIT BREAKERS

| Voltage | Description | Catalog No. |
|-----------------------|----------------|--------------|
| 208/240V - 1 Phase | 25 amp, 2 pole | 41K13 |
| | 30 amp, 2 pole | 17K70 |
| | 35 amp, 2 pole | 72K07 |
| | 40 amp, 2 pole | 49K14 |
| | 45 amp, 2 pole | 17K71 |
| | 50 amp, 2 pole | 41K12 |
| | 60 amp, 2 pole | 17K72 |

ELECTRIC HEAT DATA - BCE7E-018

SINGLE PHASE

| Model Number | # of stages | Input | | | ² Blower Motor Full Load Amps | ³ Minimum Circuit Ampacity | | | ⁵ Maximum Overcurrent Protection | | | Single Point Power Source | |
|---|-------------|-------|-----|-------------------|--|---------------------------------------|-------|-------|---|-------|-------|---------------------------------------|---|
| | | Volts | kW | ¹ Btuh | | Ckt 1 | Ckt 2 | Ckt 3 | Ckt 1 | Ckt 2 | Ckt 3 | ³ Minimum Circuit Ampacity | ⁵ Maximum Overcurrent Protection |
| 5 kW ECB27-5CB (17D47) 35A Circuit Breaker | 1 | 208 | 3.8 | 13,000 | 4.1 | 28 | --- | --- | ⁴ 30 | --- | --- | --- | --- |
| | | 220 | 4.2 | 14,300 | 4.1 | 29 | --- | --- | ⁴ 30 | --- | --- | --- | --- |
| | | 230 | 4.6 | 15,700 | 4.1 | 30 | --- | --- | ⁴ 30 | --- | --- | --- | --- |
| | | 240 | 5 | 17,100 | 4.1 | 31 | --- | --- | 35 | --- | --- | --- | --- |
| 9 kW ECB27-9CB (17D52) 60A Circuit Breaker | 2 | 208 | 6.8 | 23,200 | 4.1 | 46 | --- | --- | ⁴ 50 | --- | --- | --- | --- |
| | | 220 | 7.6 | 25,900 | 4.1 | 48 | --- | --- | ⁴ 50 | --- | --- | --- | --- |
| | | 230 | 8.3 | 28,300 | 4.1 | 50 | --- | --- | ⁴ 50 | --- | --- | --- | --- |
| | | 240 | 9 | 30,700 | 4.1 | 52 | --- | --- | 60 | --- | --- | --- | --- |

NOTE - Circuit 1 Minimum Circuit Ampacity includes the Blower Motor Full Load Amps.

¹ Electric heater capacity only - does not include additional blower motor heat capacity.

² Amps shown are for blower motor only.

³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F.

⁴ Bold text indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size noted. See Table on Page 9.

⁵ HACR type circuit breaker or fuse.

ELECTRIC HEAT DATA - BCE7E-024

SINGLE PHASE

| Model Number | # of stages | Input | | | ² Blower Motor Full Load Amps | ³ Minimum Circuit Ampacity | | | ⁵ Maximum Overcurrent Protection | | | Single Point Power Source | |
|---|-------------|-------|-----|-------------------|--|---------------------------------------|-------|-------|---|-------|-------|---------------------------------------|---|
| | | Volts | kW | ¹ Btuh | | Ckt 1 | Ckt 2 | Ckt 3 | Ckt 1 | Ckt 2 | Ckt 3 | ³ Minimum Circuit Ampacity | ⁵ Maximum Overcurrent Protection |
| 5 kW ECB27-5CB (17D47) 35A Circuit Breaker | 1 | 208 | 3.8 | 13,000 | 4.1 | 28 | --- | --- | ⁴ 30 | --- | --- | --- | --- |
| | | 220 | 4.2 | 14,300 | 4.1 | 29 | --- | --- | ⁴ 30 | --- | --- | --- | --- |
| | | 230 | 4.6 | 15,700 | 4.1 | 30 | --- | --- | ⁴ 30 | --- | --- | --- | --- |
| | | 240 | 5 | 17,100 | 4.1 | 31 | --- | --- | 35 | --- | --- | --- | --- |
| 9 kW ECB27-9CB (17D52) 60A Circuit Breaker | 2 | 208 | 6.8 | 23,200 | 4.1 | 46 | --- | --- | ⁴ 50 | --- | --- | --- | --- |
| | | 220 | 7.6 | 25,900 | 4.1 | 48 | --- | --- | ⁴ 50 | --- | --- | --- | --- |
| | | 230 | 8.3 | 28,300 | 4.1 | 50 | --- | --- | ⁴ 50 | --- | --- | --- | --- |
| | | 240 | 9 | 30,700 | 4.1 | 52 | --- | --- | 60 | --- | --- | --- | --- |

NOTE - Circuit 1 Minimum Circuit Ampacity includes the Blower Motor Full Load Amps.

¹ Electric heater capacity only - does not include additional blower motor heat capacity.

² Amps shown are for blower motor only.

³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F.

⁴ Bold text indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size noted. See Table on Page 9.

⁵ HACR type circuit breaker or fuse.

ELECTRIC HEAT DATA - BCE7E-030

SINGLE PHASE

| Model Number | # of stages | Input | | | ² Blower Motor Full Load Amps | ³ Minimum Circuit Ampacity | | | ⁵ Maximum Overcurrent Protection | | | Single Point Power Source | |
|---|-------------|-------|------|-------------------|--|---------------------------------------|-------|-------|---|-------------|-------|---------------------------------------|---|
| | | Volts | kW | ¹ Btuh | | Ckt 1 | Ckt 2 | Ckt 3 | Ckt 1 | Ckt 2 | Ckt 3 | ³ Minimum Circuit Ampacity | ⁵ Maximum Overcurrent Protection |
| 5 kW ECB27-5CB (17D47) 35A Circuit Breaker | 1 | 208 | 3.8 | 13,000 | 4.1 | 28 | --- | --- | 4 30 | --- | --- | --- | --- |
| | | 220 | 4.2 | 14,300 | 4.1 | 29 | --- | --- | 4 30 | --- | --- | --- | --- |
| | | 230 | 4.6 | 15,700 | 4.1 | 30 | --- | --- | 4 30 | --- | --- | --- | --- |
| | | 240 | 5 | 17,100 | 4.1 | 31 | --- | --- | 35 | --- | --- | --- | --- |
| 9 kW ECB27-9CB (17D52) 60A Circuit Breaker | 2 | 208 | 6.8 | 23,200 | 4.1 | 46 | --- | --- | 4 50 | --- | --- | --- | --- |
| | | 220 | 7.6 | 25,900 | 4.1 | 48 | --- | --- | 4 50 | --- | --- | --- | --- |
| | | 230 | 8.3 | 28,300 | 4.1 | 50 | --- | --- | 4 50 | --- | --- | --- | --- |
| | | 240 | 9 | 30,700 | 4.1 | 52 | --- | --- | 60 | --- | --- | --- | --- |
| 12.5 kW ECB27-12.5CB (17D53) (1) 30A Circuit Breaker & (1) 45A Circuit Breaker | 2 | 208 | 9.4 | 32,100 | 4.1 | 24 | 38 | --- | 4 25 | 4 40 | --- | 62 | 70 |
| | | 220 | 10.5 | 35,800 | 4.1 | 25 | 40 | --- | 4 25 | 4 40 | --- | 65 | 70 |
| | | 230 | 11.5 | 39,200 | 4.1 | 26 | 42 | --- | 30 | 45 | --- | 68 | 70 |
| | | 240 | 12.5 | 42,700 | 4.1 | 27 | 44 | --- | 30 | 45 | --- | 71 | 80 |
| 15 kW ECB27-15CB (17D54) (1) 35A Circuit Breaker & (1) 60A Circuit Breaker | 2 | 208 | 11.2 | 38,200 | 4.1 | 28 | 45 | --- | 4 30 | 4 45 | --- | 73 | 80 |
| | | 220 | 12.6 | 43,000 | 4.1 | 29 | 48 | --- | 4 30 | 4 50 | --- | 77 | 80 |
| | | 230 | 13.8 | 47,100 | 4.1 | 30 | 50 | --- | 4 30 | 4 50 | --- | 80 | 80 |
| | | 240 | 15 | 51,200 | 4.1 | 31 | 52 | --- | 35 | 60 | --- | 83 | 90 |

NOTE - Circuit 1 Minimum Circuit Ampacity includes the Blower Motor Full Load Amps.

¹ Electric heater capacity only - does not include additional blower motor heat capacity.

² Amps shown are for blower motor only.

³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F.

⁴ Bold text indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size noted. See Table on Page 9.

⁵ HACR type circuit breaker or fuse.

ELECTRIC HEAT DATA -BCE7E-036

SINGLE PHASE

| Model Number | # of stages | Input | | | 1 HP Blower Motor Full Load (Amps) | ³ Minimum Circuit Ampacity | | | ⁵ Maximum Overcurrent Protection | | | Single Point Power Source | |
|---|-------------|-------|------|-------------------|------------------------------------|---------------------------------------|-------|-------|---|-------------|-------|---------------------------------------|---|
| | | Volts | kW | ¹ Btuh | | Ckt 1 | Ckt 2 | Ckt 3 | Ckt 1 | Ckt 2 | Ckt 3 | ³ Minimum Circuit Ampacity | ⁵ Maximum Overcurrent Protection |
| 5 kW ECB27-5CB (17D47) 35A Circuit Breaker | 1 | 208 | 3.8 | 13,000 | 7.6 | 28 | --- | --- | 4 30 | --- | --- | --- | --- |
| | | 220 | 4.2 | 14,300 | 7.6 | 29 | --- | --- | 4 30 | --- | --- | --- | --- |
| | | 230 | 4.6 | 15,700 | 7.6 | 30 | --- | --- | 4 30 | --- | --- | --- | --- |
| | | 240 | 5 | 17,100 | 7.6 | 31 | --- | --- | 35 | --- | --- | --- | --- |
| 9 kW ECB27-9CB (17D52) 60A Circuit Breaker | 2 | 208 | 6.8 | 23,200 | 7.6 | 46 | --- | --- | 4 50 | --- | --- | --- | --- |
| | | 220 | 7.6 | 25,900 | 7.6 | 48 | --- | --- | 4 50 | --- | --- | --- | --- |
| | | 230 | 8.3 | 28,300 | 7.6 | 50 | --- | --- | 4 50 | --- | --- | --- | --- |
| | | 240 | 9 | 30,700 | 7.6 | 52 | --- | --- | 60 | --- | --- | --- | --- |
| 12.5 kW ECB27-12.5CB (17D53) (1) 30A Circuit Breaker & (1) 45A Circuit Breaker | 2 | 208 | 9.4 | 32,100 | 7.6 | 24 | 38 | --- | 4 25 | 4 40 | --- | 62 | 70 |
| | | 220 | 10.5 | 35,800 | 7.6 | 25 | 40 | --- | 4 25 | 4 40 | --- | 65 | 70 |
| | | 230 | 11.5 | 39,200 | 7.6 | 26 | 42 | --- | 30 | 45 | --- | 68 | 70 |
| | | 240 | 12.5 | 42,700 | 7.6 | 27 | 44 | --- | 30 | 45 | --- | 71 | 80 |
| 15 kW ECB27-15CB (17D54) (1) 35A Circuit Breaker & (1) 60A Circuit Breaker | 2 | 208 | 11.2 | 38,200 | 7.6 | 28 | 45 | --- | 4 30 | 4 45 | --- | 73 | 80 |
| | | 220 | 12.6 | 43,000 | 7.6 | 29 | 48 | --- | 4 30 | 4 50 | --- | 77 | 80 |
| | | 230 | 13.8 | 47,100 | 7.6 | 30 | 50 | --- | 4 30 | 4 50 | --- | 80 | 80 |
| | | 240 | 15 | 51,200 | 7.6 | 31 | 52 | --- | 35 | 60 | --- | 83 | 90 |
| 20 kW ECB27-20CB (17D55) (1) 60A Circuit Breaker & (1) 60A Circuit Breaker | 2 | 208 | 15 | 51,200 | 7.6 | 46 | 50 | --- | 4 50 | 4 50 | --- | 95 | 100 |
| | | 220 | 16.8 | 57,300 | 7.6 | 48 | 53 | --- | 4 50 | 60 | --- | 101 | 110 |
| | | 230 | 18.4 | 62,800 | 7.6 | 50 | 55 | --- | 4 50 | 60 | --- | 105 | 110 |
| | | 240 | 20 | 68,300 | 7.6 | 52 | 57 | --- | 60 | 60 | --- | 109 | 110 |

NOTE - Circuit 1 Minimum Circuit Ampacity includes the Blower Motor Full Load Amps.

¹ Electric heater capacity only - does not include additional blower motor heat capacity.

² Amps shown are for blower motor only.

³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F.

⁴ Bold text indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size noted. See Table on Page 9.

⁵ HACR type circuit breaker or fuse.

ELECTRIC HEAT DATA - BCE7E-042

SINGLE PHASE

| Model Number | # of stages | Input | | | ² Blower Motor Full Load Amps | ³ Minimum Circuit Ampacity | | | ⁵ Maximum Overcurrent Protection | | | Single Point Power Source | |
|---|-------------|-------|------|-------------------|--|---------------------------------------|-------|-------|---|-----------------|-----------------|---------------------------------------|---|
| | | Volts | kW | ¹ Btuh | | Ckt 1 | Ckt 2 | Ckt 3 | Ckt 1 | Ckt 2 | Ckt 3 | ³ Minimum Circuit Ampacity | ⁵ Maximum Overcurrent Protection |
| 5 kW ECB27-5CB (17D47) 35A Circuit Breaker | 1 | 208 | 3.8 | 13,000 | 7.6 | 32 | --- | --- | 35 | --- | --- | --- | --- |
| | | 220 | 4.2 | 14,300 | 7.6 | 33 | --- | --- | 35 | --- | --- | --- | --- |
| | | 230 | 4.6 | 15,700 | 7.6 | 35 | --- | --- | 35 | --- | --- | --- | --- |
| | | 240 | 5 | 17,100 | 7.6 | 36 | --- | --- | ⁴ 40 | --- | --- | --- | --- |
| 9 kW ECB27-9CB (17D52) 60A Circuit Breaker | 2 | 208 | 6.8 | 23,200 | 7.6 | 50 | --- | --- | ⁴ 50 | --- | --- | --- | --- |
| | | 220 | 7.6 | 25,900 | 7.6 | 53 | --- | --- | 60 | --- | --- | --- | --- |
| | | 230 | 8.3 | 28,300 | 7.6 | 55 | --- | --- | 60 | --- | --- | --- | --- |
| | | 240 | 9 | 30,700 | 7.6 | 56 | --- | --- | 60 | --- | --- | --- | --- |
| 12.5 kW ECB27-12.5CB (17D53) (1) 30A Circuit Breaker & (1) 45A Circuit Breaker | 2 | 208 | 9.4 | 32,100 | 7.6 | 28 | 38 | --- | 30 | ⁴ 40 | --- | 66 | 70 |
| | | 220 | 10.5 | 35,800 | 7.6 | 29 | 40 | --- | 30 | ⁴ 40 | --- | 69 | 70 |
| | | 230 | 11.5 | 39,200 | 7.6 | 30 | 42 | --- | 30 | 45 | --- | 72 | 80 |
| | | 240 | 12.5 | 42,700 | 7.6 | 31 | 44 | --- | ⁴ 35 | 45 | --- | 75 | 80 |
| 15 kW ECB27-15CB (17D54) (1) 35A Circuit Breaker & (1) 60A Circuit Breaker | 2 | 208 | 11.2 | 38,200 | 7.6 | 32 | 45 | --- | 35 | ⁴ 45 | --- | 77 | 80 |
| | | 220 | 12.6 | 43,000 | 7.6 | 33 | 48 | --- | 35 | ⁴ 50 | --- | 81 | 90 |
| | | 230 | 13.8 | 47,100 | 7.6 | 35 | 50 | --- | 35 | ⁴ 50 | --- | 85 | 90 |
| | | 240 | 15 | 51,200 | 7.6 | 36 | 52 | --- | ⁴ 40 | 60 | --- | 88 | 90 |
| 20 kW ECB27-20CB (17D55) (1) 60A Circuit Breaker & (1) 60A Circuit Breaker | 2 | 208 | 15 | 51,200 | 7.6 | 50 | 50 | --- | ⁴ 50 | ⁴ 50 | --- | 100 | 100 |
| | | 220 | 16.8 | 57,300 | 7.6 | 52 | 53 | --- | 60 | 60 | --- | 105 | 110 |
| | | 230 | 18.4 | 62,800 | 7.6 | 54 | 55 | --- | 60 | 60 | --- | 109 | 110 |
| | | 240 | 20 | 68,300 | 7.6 | 56 | 57 | --- | 60 | 60 | --- | 114 | 125 |
| 25 kW ECB27-25CB (17D56) (1) 60A Circuit Breaker & (2) 45A Circuit Breakers | 3 | 208 | 18.8 | 64,200 | 7.6 | 47 | 38 | 38 | ⁴ 50 | ⁴ 40 | ⁴ 40 | 122 | 125 |
| | | 220 | 21 | 71,700 | 7.6 | 49 | 40 | 40 | ⁴ 50 | ⁴ 40 | ⁴ 40 | 129 | 150 |
| | | 230 | 23 | 78,500 | 7.6 | 51 | 42 | 42 | 60 | 45 | 45 | 135 | 150 |
| | | 240 | 25 | 85,300 | 7.6 | 53 | 44 | 44 | 60 | 45 | 45 | 141 | 150 |

NOTE - Circuit 1 Minimum Circuit Ampacity includes the Blower Motor Full Load Amps.

¹ Electric heater capacity only - does not include additional blower motor heat capacity.

² Amps shown are for blower motor only.

³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F.

⁴ Bold text indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size noted. See Table on Page 9.

⁵ HACR type circuit breaker or fuse.

ELECTRIC HEAT DATA - BCE7E-048

SINGLE PHASE

| Model Number | # of stages | Input | | | ² Blower Motor Full Load Amps | ³ Minimum Circuit Ampacity | | | ⁵ Maximum Overcurrent Protection | | | Single Point Power Source | |
|---|-------------|-------|------|-------------------|--|---------------------------------------|-------|-------|---|-----------------|-----------------|---------------------------------------|---|
| | | Volts | kW | ¹ Btuh | | Ckt 1 | Ckt 2 | Ckt 3 | Ckt 1 | Ckt 2 | Ckt 3 | ³ Minimum Circuit Ampacity | ⁵ Maximum Overcurrent Protection |
| 5 kW ECB27-5CB (17D47) 35A Circuit Breaker | 1 | 208 | 3.8 | 13,000 | 7.6 | 32 | --- | --- | 35 | --- | --- | --- | --- |
| | | 220 | 4.2 | 14,300 | 7.6 | 33 | --- | --- | 35 | --- | --- | --- | --- |
| | | 230 | 4.6 | 15,700 | 7.6 | 35 | --- | --- | 35 | --- | --- | --- | --- |
| | | 240 | 5 | 17,100 | 7.6 | 36 | --- | --- | ⁴ 40 | --- | --- | --- | --- |
| 9 kW ECB27-9CB (17D52) 60A Circuit Breaker | 2 | 208 | 6.8 | 23,200 | 7.6 | 50 | --- | --- | ⁴ 50 | --- | --- | --- | --- |
| | | 220 | 7.6 | 25,900 | 7.6 | 53 | --- | --- | 60 | --- | --- | --- | --- |
| | | 230 | 8.3 | 28,300 | 7.6 | 55 | --- | --- | 60 | --- | --- | --- | --- |
| | | 240 | 9 | 30,700 | 7.6 | 56 | --- | --- | 60 | --- | --- | --- | --- |
| 12.5 kW ECB27-12.5CB (17D53) (1) 30A Circuit Breaker & (1) 45A Circuit Breaker | 2 | 208 | 9.4 | 32,100 | 7.6 | 28 | 38 | --- | 30 | ⁴ 40 | --- | 66 | 70 |
| | | 220 | 10.5 | 35,800 | 7.6 | 29 | 40 | --- | 30 | ⁴ 40 | --- | 69 | 70 |
| | | 230 | 11.5 | 39,200 | 7.6 | 30 | 42 | --- | 30 | 45 | --- | 72 | 80 |
| | | 240 | 12.5 | 42,700 | 7.6 | 31 | 44 | --- | ⁴ 35 | 45 | --- | 75 | 80 |
| 15 kW ECB27-15CB (17D54) (1) 35A Circuit Breaker & (1) 60A Circuit Breaker | 2 | 208 | 11.2 | 38,200 | 7.6 | 32 | 45 | --- | 35 | ⁴ 45 | --- | 77 | 80 |
| | | 220 | 12.6 | 43,000 | 7.6 | 33 | 48 | --- | 35 | ⁴ 50 | --- | 81 | 90 |
| | | 230 | 13.8 | 47,100 | 7.6 | 35 | 50 | --- | 35 | ⁴ 50 | --- | 85 | 90 |
| | | 240 | 15 | 51,200 | 7.6 | 36 | 52 | --- | ⁴ 40 | 60 | --- | 88 | 90 |
| 20 kW ECB27-20CB (17D55) (1) 60A Circuit Breaker & (1) 60A Circuit Breaker | 2 | 208 | 15 | 51,200 | 7.6 | 50 | 50 | --- | ⁴ 50 | ⁴ 50 | --- | 100 | 100 |
| | | 220 | 16.8 | 57,300 | 7.6 | 52 | 53 | --- | 60 | 60 | --- | 105 | 110 |
| | | 230 | 18.4 | 62,800 | 7.6 | 54 | 55 | --- | 60 | 60 | --- | 109 | 110 |
| | | 240 | 20 | 68,300 | 7.6 | 56 | 57 | --- | 60 | 60 | --- | 114 | 125 |
| 25 kW ECB27-25CB (17D56) (1) 60A Circuit Breaker & (2) 45A Circuit Breakers | 3 | 208 | 18.8 | 64,200 | 7.6 | 47 | 38 | 38 | ⁴ 50 | ⁴ 40 | ⁴ 40 | 122 | 125 |
| | | 220 | 21 | 71,700 | 7.6 | 49 | 40 | 40 | ⁴ 50 | ⁴ 40 | ⁴ 40 | 129 | 150 |
| | | 230 | 23 | 78,500 | 7.6 | 51 | 42 | 42 | 60 | 45 | 45 | 135 | 150 |
| | | 240 | 25 | 85,300 | 7.6 | 53 | 44 | 44 | 60 | 45 | 45 | 141 | 150 |

NOTE - Circuit 1 Minimum Circuit Ampacity includes the Blower Motor Full Load Amps.

¹ Electric heater capacity only - does not include additional blower motor heat capacity.

² Amps shown are for blower motor only.

³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F.

⁴ Bold text indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size noted. See Table on Page 9.

⁵ HACR type circuit breaker or fuse.

ELECTRIC HEAT DATA - BCE7E-060

SINGLE PHASE

| Model Number | # of stages | Input | | | ² Blower Motor Full Load Amps | ³ Minimum Circuit Ampacity | | | ⁵ Maximum Overcurrent Protection | | | Single Point Power Source | |
|---|-------------|-------|------|-------------------|--|---------------------------------------|-------|-------|---|-----------------|-----------------|---------------------------------------|---|
| | | Volts | kW | ¹ Btuh | | Ckt 1 | Ckt 2 | Ckt 3 | Ckt 1 | Ckt 2 | Ckt 3 | ³ Minimum Circuit Ampacity | ⁵ Maximum Overcurrent Protection |
| 5 kW ECB27-5CB (17D47) 35A Circuit Breaker | 1 | 208 | 3.8 | 13,000 | 7.6 | 32 | --- | --- | 35 | --- | --- | --- | --- |
| | | 220 | 4.2 | 14,300 | 7.6 | 33 | --- | --- | 35 | --- | --- | --- | --- |
| | | 230 | 4.6 | 15,700 | 7.6 | 35 | --- | --- | 35 | --- | --- | --- | --- |
| | | 240 | 5 | 17,100 | 7.6 | 36 | --- | --- | ⁴ 40 | --- | --- | --- | --- |
| 9 kW ECB27-9CB (17D52) 60A Circuit Breaker | 2 | 208 | 6.8 | 23,200 | 7.6 | 50 | --- | --- | ⁴ 50 | --- | --- | --- | --- |
| | | 220 | 7.6 | 25,900 | 7.6 | 53 | --- | --- | 60 | --- | --- | --- | --- |
| | | 230 | 8.3 | 28,300 | 7.6 | 55 | --- | --- | 60 | --- | --- | --- | --- |
| | | 240 | 9 | 30,700 | 7.6 | 56 | --- | --- | 60 | --- | --- | --- | --- |
| 12.5 kW ECB27-12.5CB (17D53) (1) 30A Circuit Breaker & (1) 45A Circuit Breaker | 2 | 208 | 9.4 | 32,100 | 7.6 | 28 | 38 | --- | 30 | ⁴ 40 | --- | 66 | 70 |
| | | 220 | 10.5 | 35,800 | 7.6 | 29 | 40 | --- | 30 | ⁴ 40 | --- | 69 | 70 |
| | | 230 | 11.5 | 39,200 | 7.6 | 30 | 42 | --- | 30 | 45 | --- | 72 | 80 |
| | | 240 | 12.5 | 42,700 | 7.6 | 31 | 44 | --- | ⁴ 35 | 45 | --- | 75 | 80 |
| 15 kW ECB27-15CB (17D54) (1) 35A Circuit Breaker & (1) 60A Circuit Breaker | 2 | 208 | 11.2 | 38,200 | 7.6 | 32 | 45 | --- | 35 | ⁴ 45 | --- | 77 | 80 |
| | | 220 | 12.6 | 43,000 | 7.6 | 33 | 48 | --- | 35 | ⁴ 50 | --- | 81 | 90 |
| | | 230 | 13.8 | 47,100 | 7.6 | 35 | 50 | --- | 35 | ⁴ 50 | --- | 85 | 90 |
| | | 240 | 15 | 51,200 | 7.6 | 36 | 52 | --- | ⁴ 40 | 60 | --- | 88 | 90 |
| 20 kW ECB27-20CB (17D55) (1) 60A Circuit Breaker & (1) 60A Circuit Breaker | 2 | 208 | 15 | 51,200 | 7.6 | 50 | 50 | --- | ⁴ 50 | ⁴ 50 | --- | 100 | 100 |
| | | 220 | 16.8 | 57,300 | 7.6 | 52 | 53 | --- | 60 | 60 | --- | 105 | 110 |
| | | 230 | 18.4 | 62,800 | 7.6 | 54 | 55 | --- | 60 | 60 | --- | 109 | 110 |
| | | 240 | 20 | 68,300 | 7.6 | 56 | 57 | --- | 60 | 60 | --- | 114 | 125 |
| 25 kW ECB27-25CB (17D56) (1) 60A Circuit Breaker & (2) 45A Circuit Breakers | 3 | 208 | 18.8 | 64,200 | 7.6 | 47 | 38 | 38 | ⁴ 50 | ⁴ 40 | ⁴ 40 | 122 | 125 |
| | | 220 | 21 | 71,700 | 7.6 | 49 | 40 | 40 | ⁴ 50 | ⁴ 40 | ⁴ 40 | 129 | 150 |
| | | 230 | 23 | 78,500 | 7.6 | 51 | 42 | 42 | 60 | 45 | 45 | 135 | 150 |
| | | 240 | 25 | 85,300 | 7.6 | 53 | 44 | 44 | 60 | 45 | 45 | 141 | 150 |

NOTE - Circuit 1 Minimum Circuit Ampacity includes the Blower Motor Full Load Amps.

¹ Electric heater capacity only - does not include additional blower motor heat capacity.

² Amps shown are for blower motor only.

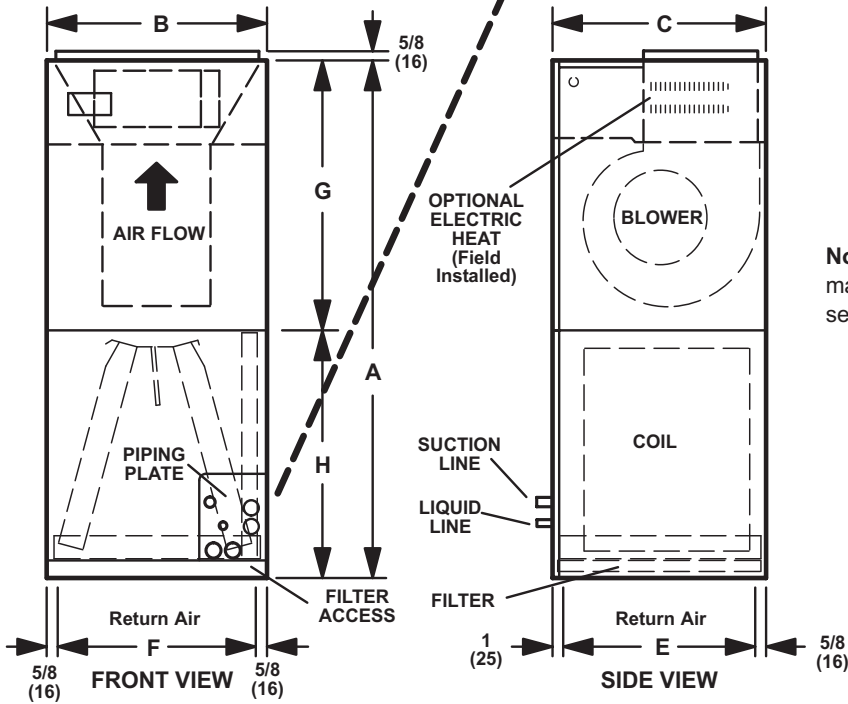
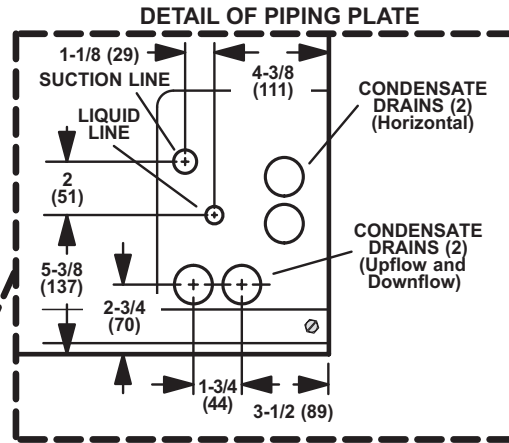
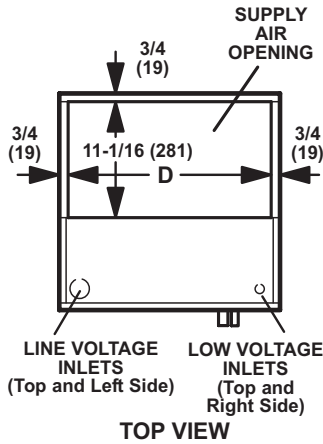
³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F.

⁴ Bold text indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size noted. See Table on Page 9.

⁵ HACR type circuit breaker or fuse.

DIMENSIONS - INCHES (MM)

UPFLOW POSITION

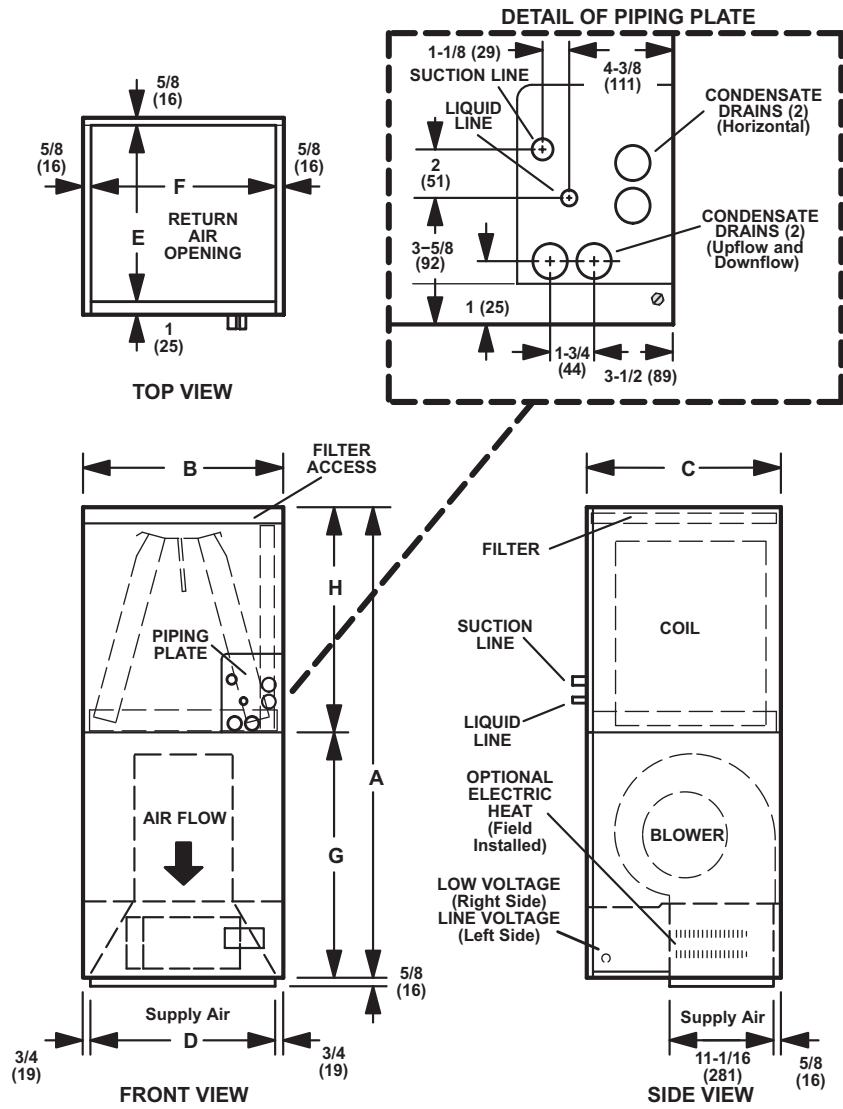


Note – Units are shipped in one piece but may be disassembled into two separate sections for ease of installation.

| Model No. | | A | B | C | D | E | F | G | H |
|-----------|-----|--------|--------|--------|--------|-----|-----|--------|--------|
| BCE7E-018 | in. | 49-1/4 | 21-1/4 | 20-5/8 | 19-3/4 | 19 | 20 | 24-5/8 | 24-5/8 |
| BCE7E-024 | mm | 1251 | 540 | 524 | 502 | 483 | 508 | 625 | 625 |
| BCE7E-030 | in. | 51 | 21-1/4 | 22-5/8 | 19-3/4 | 21 | 20 | 26-3/8 | 24-5/8 |
| BCE7E-036 | mm | 1295 | 540 | 575 | 502 | 533 | 508 | 670 | 625 |
| BCE7E-042 | in. | 58-1/2 | 21-1/4 | 24-5/8 | 19-3/4 | 23 | 20 | 27-7/8 | 30-5/8 |
| BCE7E-048 | mm | 1486 | 540 | 625 | 502 | 584 | 508 | 708 | 778 |
| BCE7E-060 | in. | 62-1/2 | 21-1/4 | 24-5/8 | 19-3/4 | 23 | 20 | 27-7/8 | 34-5/8 |
| | mm | 1588 | 540 | 625 | 502 | 584 | 508 | 708 | 879 |

DIMENSIONS - INCHES (MM)

DOWNFLOW POSITION with Optional Downflow Conversion Kit (Required)

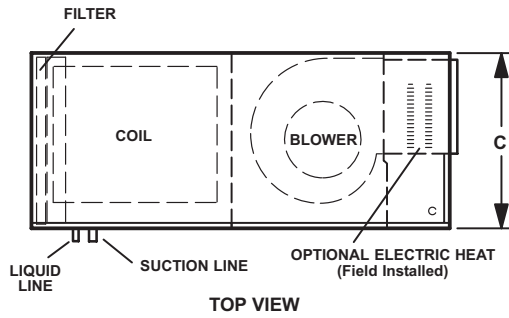
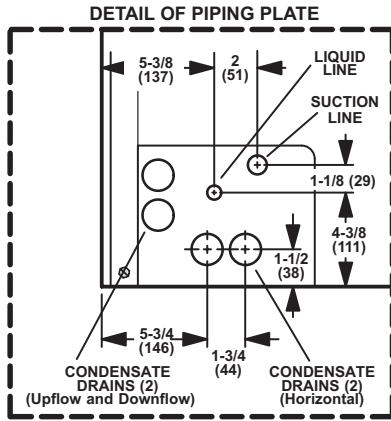


Note - Units are shipped in one piece but may be disassembled into two separate sections for ease of installation.

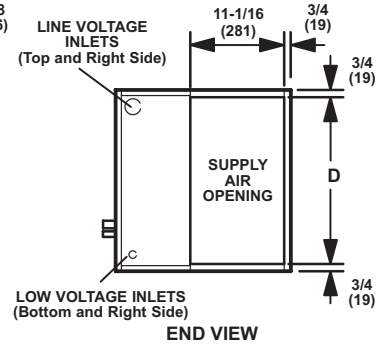
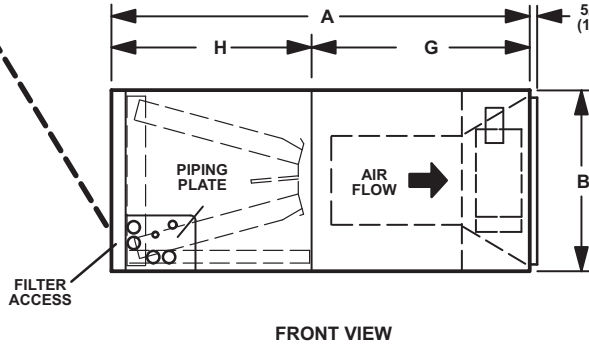
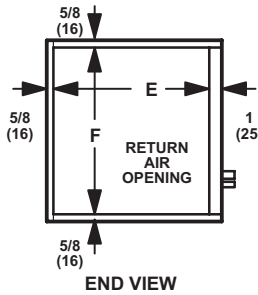
| Model No. | | A | B | C | D | E | F | G | H |
|-----------|-----|--------|--------|--------|--------|-----|-----|--------|--------|
| BCE7E-018 | in. | 49-1/4 | 21-1/4 | 20-5/8 | 19-3/4 | 19 | 20 | 24-5/8 | 24-5/8 |
| BCE7E-024 | mm | 1251 | 540 | 524 | 502 | 483 | 508 | 625 | 625 |
| BCE7E-030 | in. | 51 | 21-1/4 | 22-5/8 | 19-3/4 | 21 | 20 | 26-3/8 | 24-5/8 |
| BCE7E-036 | mm | 1295 | 540 | 575 | 502 | 533 | 508 | 670 | 625 |
| BCE7E-042 | in. | 58-1/2 | 21-1/4 | 24-5/8 | 19-3/4 | 23 | 20 | 27-7/8 | 30-5/8 |
| BCE7E-048 | mm | 1486 | 540 | 625 | 502 | 584 | 508 | 708 | 778 |
| BCE7E-060 | in. | 62-1/2 | 21-1/4 | 24-5/8 | 19-3/4 | 23 | 20 | 27-7/8 | 34-5/8 |
| | mm | 1588 | 540 | 625 | 502 | 584 | 508 | 708 | 879 |

DIMENSIONS - INCHES (MM)

RIGHT-HAND AIR DISCHARGE

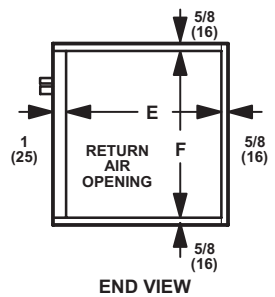
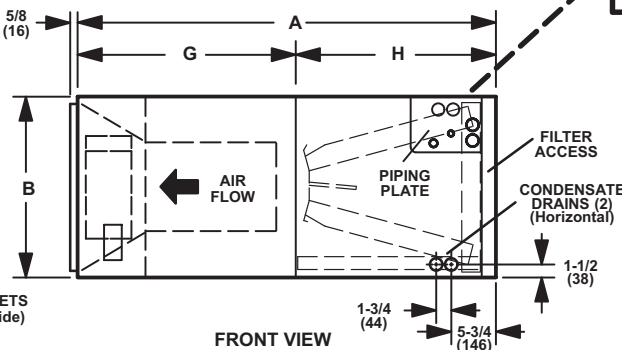
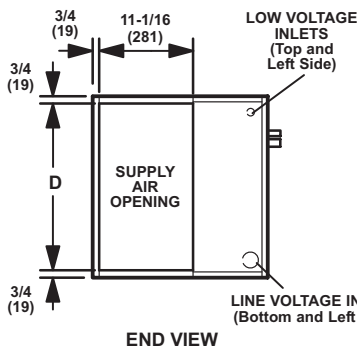
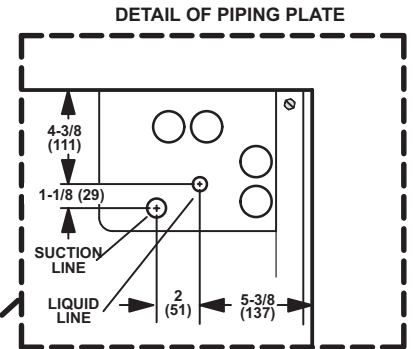
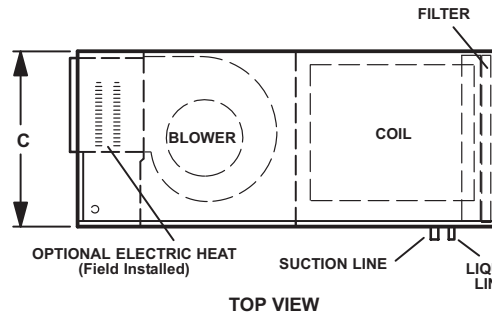


Note – Units are shipped in one piece but may be disassembled into two separate sections for ease of installation.



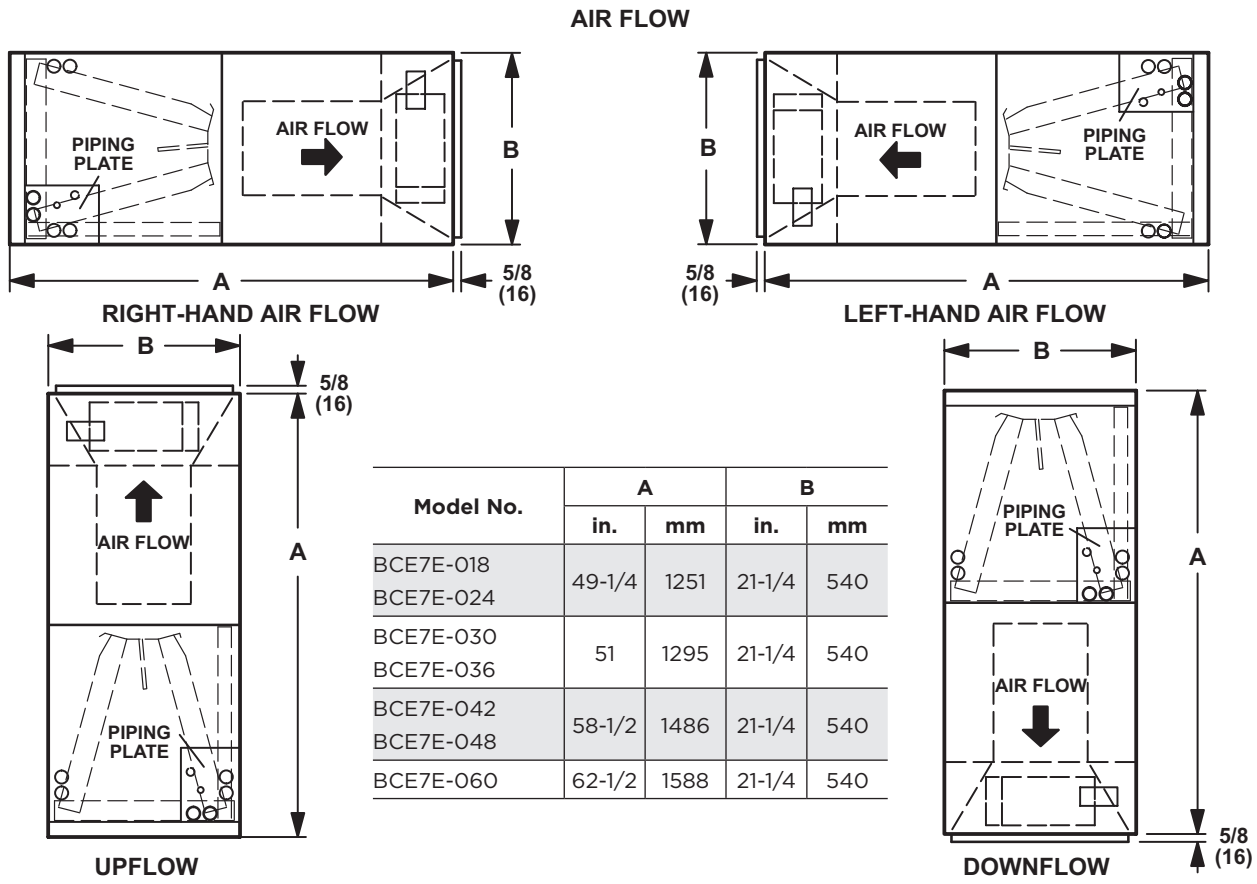
LEFT-HAND AIR DISCHARGE

Note – Units are shipped in one piece but may be disassembled into two separate sections for ease of installation.

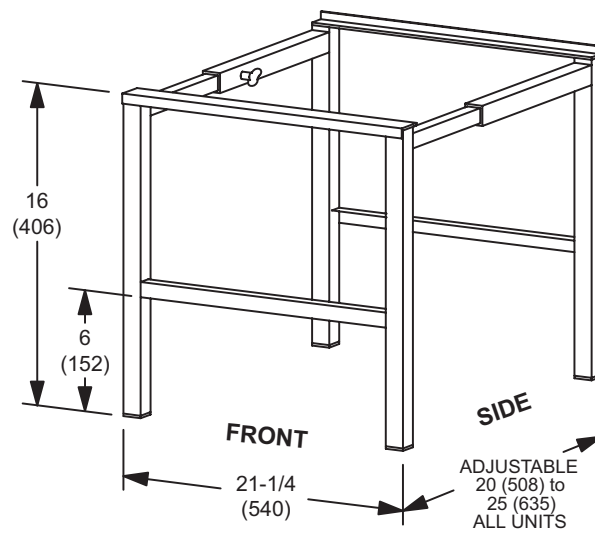


| Model No. | A | | B | | C | | D | | E | | F | | G | | H | |
|------------------------|--------|------|--------|-----|--------|-----|--------|-----|------|-----|------|-----|--------|-----|--------|-----|
| | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm |
| BCE7E-018 BCE7E-024 | 49-1/4 | 1251 | 21-1/4 | 540 | 20-5/8 | 524 | 19-3/4 | 502 | 19 | 483 | 20 | 508 | 24-5/8 | 625 | 24-5/8 | 625 |
| BCE7E-030 BCE7E-036 | 51 | 1295 | 21-1/4 | 540 | 22-5/8 | 575 | 19-3/4 | 502 | 21 | 533 | 20 | 508 | 26-3/8 | 670 | 24-5/8 | 625 |
| BCE7E-042 BCE7E-048 | 58-1/2 | 1486 | 21-1/4 | 540 | 24-5/8 | 625 | 19-3/4 | 502 | 23 | 584 | 20 | 508 | 27-7/8 | 708 | 30-5/8 | 778 |
| BCE7E-060 | 62-1/2 | 1588 | 21-1/4 | 540 | 24-5/8 | 625 | 19-3/4 | 502 | 23 | 584 | 20 | 508 | 27-7/8 | 708 | 34-5/8 | 879 |

DIMENSIONS - INCHES (MM)

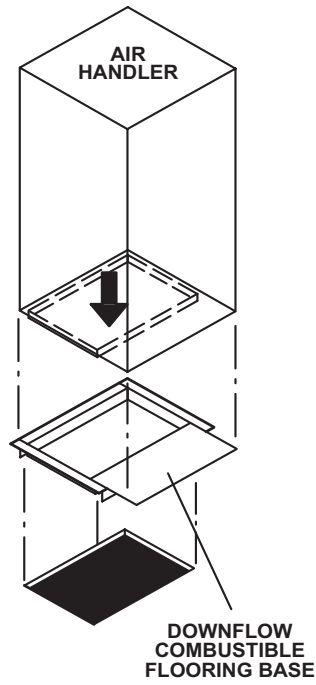


SIDE RETURN UNIT STAND (Upflow Only)

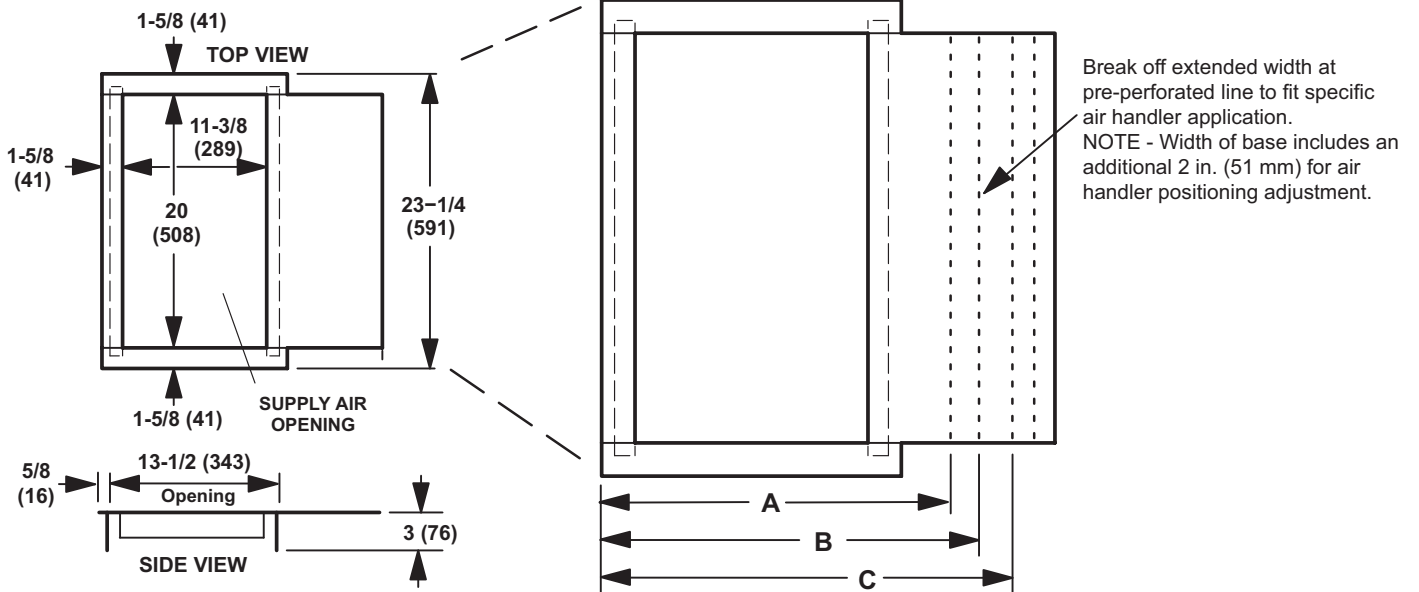


DIMENSIONS - INCHES (MM)

DOWNFLOW COMBUSTIBLE FLOORING BASE



Catalog No. - 44K15



| Model No. | 018, 024 | | 030, 036 | | 042, 048, 060 | |
|-----------|----------|-----|----------|-----|---------------|-----|
| | in. | mm | in. | mm | in. | mm |
| A | 22-5/8 | 575 | --- | --- | --- | --- |
| B | --- | --- | 24-5/8 | 625 | --- | --- |
| C | --- | --- | --- | --- | 26-5/8 | 676 |

ACCESSORIES

| DESCRIPTION | WHERE USED | Cat. NUMBER |
|---------------------------------------|------------|-------------|
| Circuit Breaker Cover Kit | All Models | 82W01 |
| Downflow Combustible Flooring Base | All Models | 44K15 |
| Horizontal Support Frame Kit | All Models | 56J18 |
| Side Return Unit Stand (Upflow) | All Models | 45K32 |
| Single-Point Power Source Control Box | All Models | 21H39 |
| Wall Hanging Bracket Kit (Upflow) | All Models | 45K30 |
| Remote Outdoor Sensor | All Models | X2658 |

ELECTRIC HEAT

| Size | Model | C/B Size * | WHERE USED | Cat # |
|--|----------------|-----------------|----------------------------|-------|
| Electric Heat Kits with Circuit Breaker | | | | |
| 5 kW | ECB27-5CB-P | 35A | 18, 24, 30, 36, 42, 48, 60 | 17D47 |
| 9 kW | ECB27-9CB-P | 60A | 30, 36, 42, 48, 60 | 17D52 |
| 12 kW | ECB27-12.5CB-P | 30A + 45A | 30, 36, 42, 48, 60 | 17D53 |
| 15 kW | ECB27-15CB-P | 35A + 60A | 30, 36, 42, 48, 60 | 17D54 |
| 20 kW | ECB27-20CB-P | 60A + 60A | 36, 42, 48, 60 | 17D55 |
| 25 kW | ECB27-25CB-P | 60A + 45A + 45A | 48, 60 | 17D56 |

| Replacement Circuit Breakers (2 pole) | | |
|--|------|-------|
| Volts | Size | Cat # |
| 208/240V- 1 phase | 25A | 41K13 |
| | 30A | 17K70 |
| | 35A | 72K07 |
| | 40A | 49K14 |
| | 45A | 17K71 |
| | 50A | 41K12 |
| | 60A | 17K72 |



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All specifications and illustrations subject to change without notice and without incurring obligations.