R410A UPFLOW/HORIZONTAL HIGH EFFICIENCY BLOWER MOTOR

BCE7E

FORM NO. BCE7E-100 (7/2023)

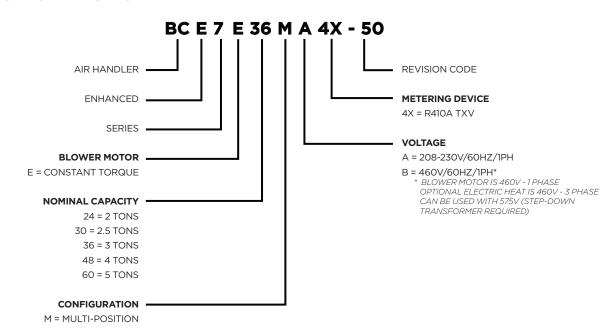






NOMINAL CAPACITY - 1.5 TO 5 TONS OPTIONAL ELECTRIC HEAT - 5 TO 20 KW

MODEL NUMBER IDENTIFICATION



BCE7E AIR HANDLER

FEATURES

WARRANTY

10 year limited warranty on all parts, extended warranty available*
"Warranty provides for a total of 10 years of limited warranty coverage (Standard 5-year limited parts
warranty plus an additional 5-year limited extended parts warranty). Warranty must be registered
online within 60 days of installation to qualify for 10-year coverage. Unregistered equipment defaults
to 5-year coverage. See full warranty at www.alliedair.com for terms, conditions, and exclusions.

APPROVALS

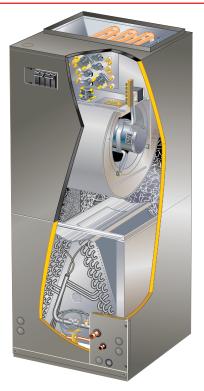
- Tested with matching air conditioners and heat pump units in the environmental test room in accordance with AHRI Standard 210/240
- Optional electric heaters are rated in accordance with US Department of Energy (DOE) test procedures and Federal Trade Commission (FTC) labeling regulations
- Blower performance 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

- Omniguard™ 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

BCE7E AIR HANDLER

BLOWER

- · 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"

<u>UPFLOW/HORIZONTAL CAPABILITY</u> (OPTIONAL DOWNFLOW)

- · Shipped for upflow and horizontal right-hand discharge
- May be field converted to horizontal left-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

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" and (2) 1 x 3 x 53-7/8" 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" 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
- Blower cooling relay (460V units only)
- 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

CIRCUIT BREAKER COVER KIT

- · Flexible plastic cover protects circuit breaker
- Recommended in areas with high humidity or unconditioned areas to prevent nuisance tripping
- 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"

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.

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

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



SPECIFICATIONS

| General Data | Model Number | BCE7E24 | BCE7E30 | BCE7E36 |
|------------------------|---|-------------|-------------|-------------|
| | Nominal tonnage | 2 | 2.5 | 3 |
| Connections | Suction (vapor) line (o.d.) - in. sweat | 3/4 | 3/4 | 3/4 |
| | 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 | 4.44 | 5.0 | 5.0 |
| | 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. | 10 x 8 | 11 x 8 | 11 x 8 |
| | Blower motor output - hp | 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 |
| Shipping Data -1 packa | ge - Ibs. | 137 | 150 | 150 |

ELECTRICAL DATA

| Voltage - 1 phase - 60hz | 208/230V-1ph | 208/230V-1ph | 208/230V-1ph |
|---|--------------|--------------|--------------|
| Voltage - 3 phase - 60hz | | | ³ 460V-1ph |
| ² Maximum overcurrent protection (unit only)- All voltages | 15 | 15 | 15 |
| Minimum circuit ampacity (unit only) - 208/230V | 5 | 5 | 5 |
| Blower Motor Full Load Amps - 208/230V | 4.1 | 4.1 | 4.1 |
| Minimum circuit ampacity (unit only) - 460V | | | 2.6 |
| Blower Motor Full Load Amps - 460V | | | 2.1 |

¹ Disposable frame type filter.

² HACR type circuit breaker or fuse.

 $^{^{\}rm 3}$ 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 pag | ckage lbs. | 186 | 186 | 199 |

ELECTRICAL DATA

| Voltage - 1 phase - 60hz | 208/230V-1ph | 208/230V-1ph | 208/230V-1ph |
|---|--------------|--------------|--------------|
| Voltage - 3 phase - 60hz | | ³ 460V-1ph | ³ 460V-1ph |
| ² Maximum overcurrent protection (unit only)- All voltages | 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 |
| Minimum circuit ampacity (unit only) - 460V | | 5 | 5 |
| Blower Motor Full Load Amps - 460V | | 4 | 4 |



BLOWER DATA

| BCE7E-024 BL | OWER PERFORM | ANCE | | | | | | | | | | | |
|--------------------|--------------|----------------------------|-----|-------|-----|-------|-----|-------|------|-------|--|--|--|
| External | | Air Volume and Motor Watts | | | | | | | | | | | |
| Static Pressure | Taj | p 1 | Ta | p 2 | Taj | o 3 | Ta | p 4 | Та | p 5 | | | |
| in. w.g. | 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 | | | |

| External | | Air Volume and Motor Watts | | | | | | | | | | | |
|--------------------|------|----------------------------|------|-------|------|-------|------|-------|-----------------|-------|--|--|--|
| Static Pressure | Ta | p 1 | Ta | p 2 | Ta | p 3 | Та | p 4 | Ta _l | p 5 | | | |
| in. w.g. | 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 BL | E7E-036 BLOWER PERFORMANCE | | | | | | | | | | | |
|--------------------|------------------------------------|-------|------|-------|-----------------|-------|------|-------|------|-------|--|--|
| External | Air Volume and Motor Watts at 208V | | | | | | | | | | | |
| Static Pressure | Ta _l | p 1 | Ta | p 2 | Ta _l | p 3 | Ta | p 4 | Та | p 5 | | |
| in. w.g. | 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 BL | OWER PERFORM | ANCE | | | | | | | | | | |
|--------------------|----------------------------|-------|------|-------|------|-------|------|-------|------|-------|--|--|
| External | Air Volume and Motor Watts | | | | | | | | | | | |
| Static Pressure | Taj | p 1 | Ta | p 2 | Ta | p 3 | Та | p 4 | Та | o 5 | | |
| in. w.g. | 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 BL | BCE7E-048 BLOWER PERFORMANCE | | | | | | | | | | | |
|--------------------|------------------------------|-------|------|-------|------|-------|------|-------|------|-------|--|--|
| External | Air Volume and Motor Watts | | | | | | | | | | | |
| Static Pressure | Та | p 1 | Ta | p 2 | Ta | p 3 | Ta | p 4 | Та | p 5 | | |
| in. w.g. | 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 BL | BCE7E-060 BLOWER PERFORMANCE | | | | | | | | | | | |
|--------------------|------------------------------|-------|------|-------|------|-------|------|-------|------|-------|--|--|
| External | Air Volume and Motor Watts | | | | | | | | | | | |
| Static Pressure | Ta | p 1 | Та | p 2 | Ta | p 3 | Ta | p 4 | Ta | p 5 | | |
| in. w.g. | 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 | | |



| SINGLE F | PHASE | | | | | | | |
|------------------------------|---------------------|---------------------|-------|-------|--------|-------------------------------|---|---|
| | | | | Input | | ² Blower | | |
| Electic Heat Model Number | | No. of Stages | Volts | kW | ¹ Btuh | Motor Full Load Amps | ³ Minimum Circuit Ampacity | ⁵ Maximum Overcurrent Protection |
| 5 kW | ECB27-5CB (17D47) | 1 | 208 | 3.8 | 12,800 | 4.1 | 28 | 430 |
| 4 lbs. | 35A Circuit breaker | | 220 | 4.2 | 14,300 | 4.1 | 31 | 35 |
| | | | 230 | 4.6 | 15,700 | 4.1 | 31 | 35 |
| | | | 240 | 5.0 | 17,100 | 4.1 | 31 | 35 |
| 9 kW | ECB27-9CB (17D52) | 2 | 208 | 6.8 | 23,100 | 4.1 | 46 | ⁴50 |
| 5 lbs. | 60A Circuit breaker | | 220 | 7.6 | 25,800 | 4.1 | 52 | 60 |
| | | | 230 | 8.3 | 28,200 | 4.1 | 52 | 60 |
| | | | 240 | 9.0 | 30,700 | 4.1 | 52 | 60 |

 $^{^{\}scriptscriptstyle \rm I}$ 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 22.

⁵ HACR type circuit breaker or fuse.



| | | | | Input | | 3.01 | | imum cuit | | imum urrent | | Point |
|------------|--|--------------|-------|-------|--------|------------------------------|-------|--------------|-----------------|-----------------|---|---|
| | Electic Heat | No. | | mpa | • | ² Blower Motor | | acity | | ection | Power | Source |
| | Model Number | of Stages | Volts | kW | ¹ Btuh | Full Load Amps | Ckt 1 | Ckt 2 | Ckt 1 | Ckt 2 | ³ Minimum Circuit Ampacity | ⁵ Maximum Overcurrent Protection |
| 5 kW | ECB27-5CB (17D47) | 1 | 208 | 3.8 | 12,800 | 4.1 | 28 | | 430 | | | |
| 4 lbs. | 35A Circuit breaker | | 220 | 4.2 | 14,300 | 4.1 | 31 | | 35 | | | |
| | | | 230 | 4.6 | 15,700 | 4.1 | 31 | | 35 | | | |
| | | | 240 | 5.0 | 17,100 | 4.1 | 31 | | 35 | | | |
| 9 kW | ECB27-9CB (17D52) | 2 | 208 | 6.8 | 23,100 | 4.1 | 46 | | ⁴ 50 | | | |
| 5 lbs. | 60A Circuit breaker | | 220 | 7.6 | 25,800 | 4.1 | 52 | | 60 | | | |
| | | | 230 | 8.3 | 28,200 | 4.1 | 52 | | 60 | | | |
| | | | 240 | 9.0 | 30,700 | 4.1 | 52 | | 60 | | | |
| 12.5 kW | ECB27-12.5CB (17D53) | 2 | 208 | 9.4 | 32,000 | 4.1 | 24 | 38 | ⁴25 | 440 | 62 | 70 |
| 10 lbs. | bs. (1) 30A Circuit breaker & (1) 45A Circuit breaker | | 220 | 10.5 | 35,800 | 4.1 | 27 | 43 | 30 | 45 | 70 | 70 |
| | | | 230 | 11.5 | 39,200 | 4.1 | 27 | 43 | 30 | 45 | 70 | 70 |
| | | | 240 | 12.5 | 42,600 | 4.1 | 27 | 43 | 30 | 45 | 70 | 70 |
| 15 kW | | 2 | 208 | 11.3 | 38,400 | 4.1 | 28 | 45 | 430 | ⁴ 45 | 73 | 80 |
| 12 lbs. | (1) 35A Circuit breaker & (1) 60A Circuit Breaker | | 220 | 12.6 | 43,000 | 4.1 | 31 | 52 | 35 | 60 | 83 | 90 |
| | ., | | 230 | 13.8 | 47,000 | 4.1 | 31 | 52 | 35 | 60 | 83 | 90 |
| | | | 240 | 15.0 | 51,200 | 4.1 | 31 | 52 | 35 | 60 | 83 | 90 |
| THREE PHAS | SE | , | | | , | | • | | | | | |
| 8 kW | ECB27-8 (17D57) | 1 | 208 | 6.0 | 20,500 | 4.1 | 26 | | 30 | | | |
| 5 lbs. | Terminal Block | | 220 | 6.7 | 22,900 | 4.1 | 29 | | 30 | | | |
| | | | 230 | 7.3 | 25,100 | 4.1 | 29 | | 30 | | | |
| | | | 240 | 8.0 | 27,300 | 4.1 | 29 | | 30 | | | |
| 10 kW | ECB27-10 (17D58) | 1 | 208 | 7.5 | 25,600 | 4.1 | 31 | | 35 | | | |
| 6 lbs. | Terminal Block | | 220 | 8.4 | 28,700 | 4.1 | 35 | | 35 | | | |
| | | | 230 | 9.2 | 31,400 | 4.1 | 35 | | 35 | | | |
| | | | 240 | 10.0 | 34,100 | 4.1 | 35 | | 35 | | | |
| 15 kW | ECB27-15CB (17D59) | 1 | 208 | 11.3 | 38,400 | 4.1 | 44 | | 45 | | | |
| 12 lbs. | (1) 50A Circuit breaker | | 220 | 12.6 | 43,000 | 4.1 | 50 | | 50 | | | |
| | | | 230 | 13.5 | 47,000 | 4.1 | 50 | | 50 | | | |
| | | | 240 | 15.0 | 51,200 | 4.1 | 50 | | 50 | | | |

 $^{^{\}scriptscriptstyle 1}\,\textit{Electric heater capacity only-does not include additional blower motor heat capacity}.$

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 22.

⁵ HACR type circuit breaker or fuse.



| SINGLE P | PHASE | | | | | | | | | | | |
|------------------|--|--------|-------|-------|--------|------------------------------|-------|------------------------|-----------------|--------------------------|---|---|
| | Electic Heat | No. | | Input | t | ² Blower Motor | Cir | imum cuit pacity | Overd | imum urrent ection | | Point Source |
| | Model Number | Stages | Volts | kW | ¹ Btuh | Full Load Amps | Ckt 1 | Ckt 2 | Ckt 1 | Ckt 2 | ³ Minimum Circuit Ampacity | ⁵ Maximum Overcurrent Protection |
| 5 kW | ECB27-5CB (17D47) | 1 | 208 | 3.8 | 12,800 | 4.1 | 28 | | 430 | | | |
| 4 lbs. | 35A Circuit breaker | | 220 | 4.2 | 14,300 | 4.1 | 31 | | 35 | | | |
| | | | 230 | 4.6 | 15,700 | 4.1 | 31 | | 35 | | | |
| | | | 240 | 5.0 | 17,100 | 4.1 | 31 | | 35 | | | |
| 9 kW | ECB27-9CB (17D52) | 2 | 208 | 6.8 | 23,100 | 4.1 | 46 | | ⁴ 50 | | | |
| 5 lbs. | 60A Circuit breaker | | 220 | 7.6 | 25,800 | 4.1 | 52 | | 60 | | | |
| | | | 230 | 8.3 | 28,200 | 4.1 | 52 | | 60 | | | |
| | | | 240 | 9.0 | 30,700 | 4.1 | 52 | | 60 | | | |
| 12.5 kW | ECB27-12.5CB (17D53) | 2 | 208 | 9.4 | 32,000 | 4.1 | 24 | 38 | ⁴ 25 | 440 | 62 | 70 |
| 10 lbs. | (1) 30A Circuit breaker and (1) 45A Circuit breaker | | 220 | 10.5 | 35,800 | 4.1 | 27 | 43 | 30 | 45 | 70 | 70 |
| | | | 230 | 11.5 | 39,200 | 4.1 | 27 | 43 | 30 | 45 | 70 | 70 |
| | | | 240 | 12.5 | 42,600 | 4.1 | 27 | 43 | 30 | 45 | 70 | 70 |
| 15 kW | ECB27-15CB (17D54) | 2 | 208 | 11.3 | 38,400 | 4.1 | 28 | 45 | 430 | ⁴45 | 73 | 80 |
| 12 lbs. | (1) 35A Circuit breaker and (1) 60A Circuit breaker | | 220 | 12.6 | 43,000 | 4.1 | 31 | 52 | 35 | 60 | 83 | 90 |
| | | | 230 | 13.8 | 47,000 | 4.1 | 31 | 52 | 35 | 60 | 83 | 90 |
| | | | 240 | 15.0 | 51,200 | 4.1 | 31 | 52 | 35 | 60 | 83 | 90 |
| 20 kW 19 lbs. | ECB27-20CB (17D55) | 2 | 208 | 15.0 | 51,200 | 4.1 | 46 | 50 | ⁴50 | ⁴50 | 96 | 100 |
| 19 IDS. | (1) 60A Circuit breaker and (1) 60A Circuit breaker | | 220 | 16.8 | 57,300 | 4.1 | 52 | 57 | 60 | 60 | 109 | 125 |
| | | | 230 | 18.4 | 62,700 | 4.1 | 52 | 57 | 60 | 60 | 109 | 125 |
| | | | 240 | 20.0 | 68,200 | 4.1 | 52 | 57 | 60 | 60 | 109 | 125 |

 $^{{\}it NOTE-Circuit~1~Minimum~Circuit~Ampacity~includes~the~Blower~Motor~Full~Load~Amps.}$

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 22.

⁵ HACR type circuit breaker or fuse.



| SINGLE PH | HASE | | | | | | | | | | | | | |
|--------------------|---|--------|-------|-------|--------|--------------------------------------|-------|-------------------------------|-------|-----------------|----------------------------------|-------|---|---|
| | Electic Heat | No. | Volts | kW | ¹Btuh | ² Blower Motor Full | | Minimur Circuit Ampacit | | 0 | Maximui vercurre Protectio | nt | Single Point Power Source | |
| | Model Number | Stages | Input | Input | Input | Load Amps | Ckt 1 | Ckt 2 | Ckt 3 | Ckt 1 | Ckt 2 | Ckt 3 | ³ Minimum Circuit Ampacity | ⁵ Maximum Overcurrent Protection |
| 5 kW 4 lbs. | ECB27-5CB (17D47) 35A Circuit breaker | 1 | 208 | 3.8 | 12,800 | 7.6 | 32 | | | 35 | | | | |
| 4 105. | 35A Circuit breaker | | 220 | 4.2 | 14,300 | 7.6 | 36 | | | 440 | | | | |
| | | | 230 | 4.6 | 15,700 | 7.6 | 36 | | | 440 | | | | |
| | | | 240 | 5.0 | 17,100 | 7.6 | 36 | | | 440 | | | | |
| 9 kW 5 lbs. | ECB27-9CB (17D52) 60A Circuit breaker | 2 | 208 | 6.8 | 23,100 | 7.6 | 50 | | | ⁴ 50 | | | | |
| 3 105. | 60A Circuit breaker | | 220 | 7.6 | 25,800 | 7.6 | 56 | | | 60 | | | | |
| | | | 230 | 8.3 | 28,200 | 7.6 | 56 | | | 60 | | | | |
| | | | 240 | 9.0 | 30,700 | 7.6 | 56 | | | 60 | | | | |
| 12.5 kW 10 lbs. | , , | 2 | 208 | 9.4 | 32,000 | 7.6 | 28 | 38 | | 30 | 440 | | 66 | 80 |
| 10 103. | (1) 45A Circuit breaker | | 220 | 10.5 | 35,800 | 7.6 | 31 | 43 | | ⁴35 | 45 | | 75 | 80 |
| | | | 230 | 11.5 | 39,200 | 7.6 | 31 | 43 | | ⁴35 | 45 | | 75 | 80 |
| | | | 240 | 12.5 | 42,600 | 7.6 | 31 | 43 | | ⁴35 | 45 | | 75 | 80 |
| 15 kW 12 lbs. | ECB27-15CB (17D54) (1) 35A Circuit breaker and | 2 | 208 | 11.3 | 38,400 | 7.6 | 32 | 45 | | 35 | 445 | | 77 | 80 |
| 12 103. | (1) 60A Circuit breaker | | 220 | 12.6 | 43,000 | 7.6 | 36 | 52 | | 440 | 60 | | 88 | 90 |
| | | | 230 | 13.5 | 47,000 | 7.6 | 36 | 52 | | 440 | 60 | | 88 | 90 |
| | | | 240 | 15.0 | 51,200 | 7.6 | 36 | 52 | | 440 | 60 | | 88 | 90 |
| 20 kW 19 lbs. | ECB27-20CB (17D55) (1) 60A Circuit breaker and | 2 | 208 | 15.0 | 51,200 | 7.6 | 50 | 50 | | ⁴50 | ⁴ 50 | | 100 | 125 |
| 19105. | (1) 60A Circuit breaker | | 220 | 16.8 | 57,300 | 7.6 | 56 | 57 | | 60 | 60 | | 114 | 125 |
| | | | 230 | 18.4 | 62,700 | 7.6 | 56 | 57 | | 60 | 60 | | 114 | 125 |
| | | | 240 | 20.0 | 68,200 | 7.6 | 56 | 57 | | 60 | 60 | | 114 | 125 |
| 25 kW 19 lbs. | ECB27-25CB (17D56) (1) 60A Circuit breaker and | 3 | 208 | 18.8 | 64,100 | 7.6 | 47 | 38 | 38 | ⁴ 50 | 440 | 440 | 123 | 125 |
| טועו. | (2) 45A Circuit breakers | | 220 | 21.0 | 71,700 | 7.6 | 53 | 43 | 43 | 60 | 45 | 45 | 140 | 150 |
| | | | 230 | 23.0 | 78,300 | 7.6 | 53 | 43 | 43 | 60 | 45 | 45 | 140 | 150 |
| | | | 240 | 25.0 | 85,300 | 7.6 | 53 | 43 | 43 | 60 | 45 | 45 | 140 | 150 |

 $^{^1 \}textit{Electric heater capacity only - does not include additional blower motor heat capacity}.$

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 22.

⁵ HACR type circuit breaker or fuse.



| SINGLE PI | HASE | , | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|--------------|-------|--------|--------|------------------------------|--------|-------------------------------|-------|-----------------|---------------------------------|-------|----------------------------------|--|-----|-----|--|---|---|---|---|---|---|---|--|-----|------|--------|-----|----|----|----|----|----|----|-----|-----|
| | Electic Heat | No. | | Input | | ² Blower Motor | | Minimui Circuit Ampacit | | 0 | Maximui vercurre rotectio | nt | | Point Source | | | | | | | | | | | | | | | | | | | | | | | |
| | Model Number | of Stages | Volts | kW | ¹ Btuh | Full Load Amps | 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) | 1 | 208 | 3.8 | 12,800 | 7.6 | 32 | | | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 lbs. | 35A Circuit breaker | | 220 | 4.2 | 14,300 | 7.6 | 36 | | | 440 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 230 | 4.6 | 15,700 | 7.6 | 36 | | | 440 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 240 | 5.0 | 17,100 | 7.6 | 36 | | | 440 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 kW 5 lbs. | ECB27-9CB (17D52) 60A Circuit breaker | 2 | 208 | 6.8 | 23,100 | 7.6 | 50 | | | 450 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 220 | 7.6 | 25,800 | 7.6 | 56 | | | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 230 | 8.3 | 28,200 | 7.6 | 56 | | | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12.5 kW | ECB27-12.5CB (17D53) | 2 | 240 | 9.0 | 30,700 | 7.6 | 56 | | | 60 | 4.40 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 lbs. | | 2 | 208 | 9.4 | 32,000 | 7.6 | 28 | 38 | | 30 | 440 | | 66 | 70 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 220 | 10.5 | 35,800 | 7.6 | 31 | 43 | | ⁴35 | 45 | | 75 | 80 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 230 | 11.5 | 39,200 | 7.6 | 31 | 43 | | 435 | 45 | | 75 | 80 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 240 | 12.5 | 42,600 | 7.6 | 31 | 43 | | 435 | 45 | | 75 | 80 | | | | | | | | | | | | | | | | | | | | | | | |
| 15 kW 12 lbs. | ECB27-15CB (17D54) (1) 35A Circuit breaker | 2 | 208 | 11.3 | 38,400 | 7.6 | 32 | 45 | | 35 | 445 | | 77 | 80 | | | | | | | | | | | | | | | | | | | | | | | |
| 12 103. | & (1) 60A Circuit breaker | | 220 | 12.6 | 43,000 | 7.6 | 36 | 52 | | 440 | 60 | | 88 | 90 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 230 | 13.5 | 47,000 | 7.6 | 36 | 52 | | 440 | 60 | | 88 | 90 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 240 | 15.0 | 51,200 | 7.6 | 36 | 52 | | 440 | 60 | | 88 | 90 | | | | | | | | | | | | | | | | | | | | | | | |
| 20 kW 19 lbs. | ECB27-20CB (17D55) (1) 60A Circuit breaker | 2 | 208 | 15.0 | 51,200 | 7.6 | 50 | 50 | | ⁴ 50 | ⁴ 50 | | 100 | 125 | | | | | | | | | | | | | | | | | | | | | | | |
| 19105. | & (1) 60A Circuit breaker | | | _ | 220 | 16.8 | 57,300 | 7.6 | 56 | 57 | | 60 | 60 | | 114 | 125 | | | | | | | | | | | | | | | | | | | | | |
| | | | 230 | 18.4 | 62,700 | 7.6 | 56 | 57 | | 60 | 60 | | 114 | 125 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 240 | 20.0 | 68,200 | 7.6 | 56 | 57 | | 60 | 60 | | 114 | 125 | | | | | | | | | | | | | | | | | | | | | | | |
| 25 kW | ECB27-25CB (17D56) | 3 | 208 | 18.8 | 64,100 | 7.6 | 47 | 38 | 38 | 450 | 440 | 440 | 123 | 125 | | | | | | | | | | | | | | | | | | | | | | | |
| 19 lbs. | (1) 60A Circuit breaker & (2) 45A Circuit breakers | 3 | 5 | 3 | 3 | , | | | 3 | 3 | 3 | | | | | 3 | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | 220 | 21.0 | 71,700 | 7.6 | 53 | 43 | 43 | 60 | 45 | 45 | 140 | 150 |
| | - (-) | | 230 | 23.0 | 78,300 | 7.6 | 53 | 43 | 43 | 60 | 45 | 45 | 140 | 150 | | | | | | | | | | | | | | | | | | | | | | | |
| | | 240 | 25.0 | 85,300 | 7.6 | 53 | 43 | 43 | 60 | 45 | 45 | 140 | 150 | | | | | | | | | | | | | | | | | | | | | | | | |

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 22.

⁵ HACR type circuit breaker or fuse.



| IASE | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|---|------------------------------------|------------------------------------|--|---|--|--|-----------------|-------|---|--|----|----|--|----|----|--|-----|-----|
| Electic Heat | No. | | Input | | ² Blower Motor | | Circuit | | 0 | vercurre | nt | Single Point Power Source | | | | | | | | | |
| Model Number | of Stages | Volts | kW | ¹ Btuh | Full Load Amps | Ckt 1 | Ckt 2 | Ckt 3 | Ckt 1 | Ckt 2 | Ckt 3 | ³ Minimum Circuit Ampacity | ⁵ Maximum Overcurrent Protection | | | | | | | | |
| ECB27-5CB (17D47) | 1 | 208 | 3.8 | 12,800 | 7.6 | 32 | | | 35 | | | | | | | | | | | | |
| 35A Circuit breaker | | 220 | 4.2 | 14,300 | 7.6 | 36 | | | 440 | | | | | | | | | | | | |
| | | 230 | 4.6 | 15,700 | 7.6 | 36 | | | 440 | | | | | | | | | | | | |
| | | 240 | 5.0 | 17,100 | 7.6 | 36 | | | 440 | | | | | | | | | | | | |
| ECB27-9CB (17D52) | 2 | 208 | 6.8 | 23,100 | 7.6 | 50 | | | ⁴50 | | | | | | | | | | | | |
| OUA Circuit breaker | | 220 | 7.6 | 25,800 | 7.6 | 56 | | | 60 | | | | | | | | | | | | |
| | | 230 | 8.3 | 28,200 | 7.6 | 56 | | | 60 | | | | | | | | | | | | |
| | | 240 | 9.0 | 30,700 | 7.6 | 56 | | | 60 | | | | | | | | | | | | |
| W ECB27-12.5CB (17D53) . (1) 30A Circuit breaker & (1) 45A Circuit breaker | 2 | 208 | 9.4 | 32,000 | 7.6 | 28 | 38 | | 30 | 440 | | 66 | 70 | | | | | | | | |
| | | 220 | 10.5 | 35,800 | 7.6 | 31 | 43 | | 435 | 45 | | 75 | 80 | | | | | | | | |
| | | 230 | 11.5 | 39,200 | 7.6 | 31 | 43 | | ⁴ 35 | 45 | | 75 | 80 | | | | | | | | |
| | | 240 | 12.5 | 42,600 | 7.6 | 31 | 43 | | 435 | 45 | | 75 | 80 | | | | | | | | |
| ECB27-15CB (17D54) | 2 | 208 | 11.3 | 38,400 | 7.6 | 32 | 45 | | 35 | 445 | | 77 | 80 | | | | | | | | |
| & (1) 60A Circuit breaker | | 220 | 12.6 | 43,000 | 7.6 | 36 | 52 | | 440 | 60 | | 88 | 90 | | | | | | | | |
| | | 230 | 13.5 | 47,000 | 7.6 | 36 | 52 | | 440 | 60 | | 88 | 90 | | | | | | | | |
| | | 240 | 15.0 | 51,200 | 7.6 | 36 | 52 | | 440 | 60 | | 88 | 90 | | | | | | | | |
| ECB27-20CB (17D55) | 2 | 208 | 15.0 | 51,200 | 7.6 | 50 | 50 | | ⁴ 50 | ⁴ 50 | | 100 | 125 | | | | | | | | |
| & (1) 60A Circuit breaker | | | | | | | | | l | 220 | 16.8 | 57,300 | 7.6 | 56 | 57 | | 60 | 60 | | 114 | 125 |
| | | 230 | 18.4 | 62,700 | 7.6 | 56 | 57 | | 60 | 60 | | 114 | 125 | | | | | | | | |
| | | 240 | 20.0 | 68,200 | 7.6 | 56 | 57 | | 60 | 60 | | 114 | 125 | | | | | | | | |
| ECB27-25CB (17D56) | 3 | 208 | 18.8 | 64,100 | 7.6 | 47 | 38 | 38 | ⁴ 50 | 440 | 440 | 123 | 125 | | | | | | | | |
| (1) 60A Circuit breaker & (2) 45A Circuit breakers | | 220 | 21.0 | 71,700 | 7.6 | 53 | 43 | 43 | 60 | 45 | 45 | 140 | 150 | | | | | | | | |
| | | 230 | 23.0 | 78,300 | 7.6 | 53 | 43 | 43 | 60 | 45 | 45 | 140 | 150 | | | | | | | | |
| | | 240 | 25.0 | 85,300 | 7.6 | 53 | 43 | 43 | 60 | 45 | 45 | 140 | 150 | | | | | | | | |
| | ECB27-12.5CB (17D54) (1) 35A Circuit breaker ECB27-12.5CB (17D53) (1) 30A Circuit breaker ECB27-12.5CB (17D54) (1) 35A Circuit breaker & (1) 45A Circuit breaker & (1) 60A Circuit breaker & (1) 60A Circuit breaker ECB27-20CB (17D55) (1) 60A Circuit breaker & (1) 60A Circuit breaker | ECB27-12.5CB (17D52) 60A Circuit breaker ECB27-12.5CB (17D53) (1) 30A Circuit breaker & (1) 45A Circuit breaker & (1) 60A Circuit breaker & (1) 60A Circuit breaker & (1) 60A Circuit breaker | Electic Heat Model Number No. of Stages Volts | Input No. of Stages Volts kW | No. of Stages Volts kW 18tuh | Stages S | Stages Input Stages Input Stages Input Stages Input Stages Input Stages Input Input | Stages S | Stages S | Input | Input | Electic Heat Model Number | Flectic Heat Model Number Stages Volts kW Bituh Fluth Full Load Circuit Ampacity Ckt 1 Ckt 2 Ckt 3 Ckt 3 Ckt 1 Ckt 2 Ckt 3 Ckt 3 Ckt 1 Ckt 2 Ckt 3 Ckt 1 Ckt 2 Ckt 3 Ckt 1 Ckt | | | | | | | | |

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

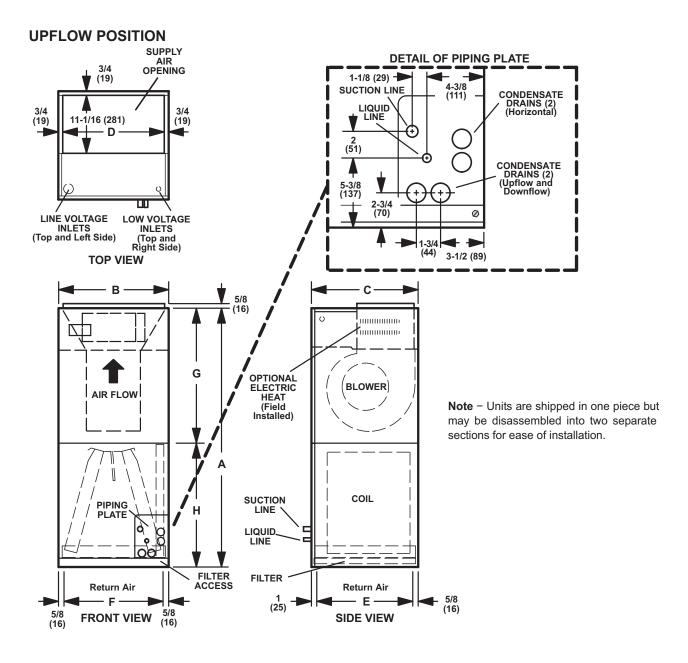
Electric heater capacity only - does not include additional blower motor heat capacity.

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.

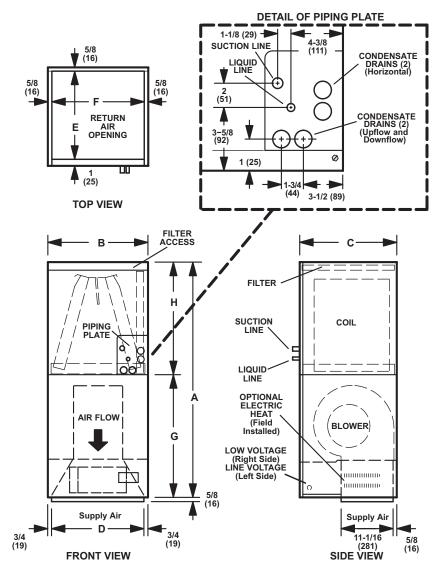
⁴ Bold text indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size noted. See Table on Page 21.

⁵ HACR type circuit breaker or fuse.



| Model No. | | Α | В | С | D | E | F | G | Н |
|-----------|-----|--------|--------|--------|--------|-----|-----|--------|--------|
| BCE7E-024 | in. | 49-1/4 | 21-1/4 | 20-5/8 | 19-3/4 | 19 | 20 | 24-5/8 | 24-5/8 |
| BCE/E-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 |
| BCE/E-000 | mm | 1588 | 540 | 625 | 502 | 584 | 508 | 708 | 879 |

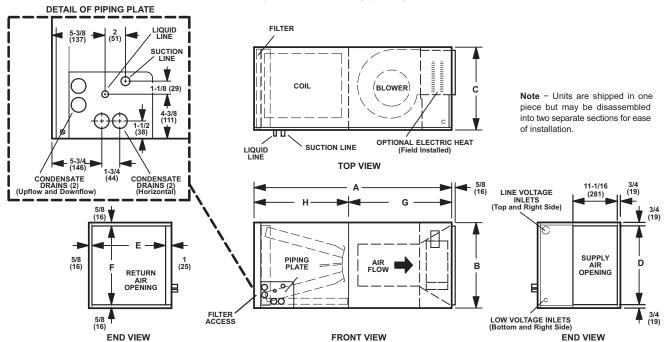
DOWNFLOW POSITION with Optional Downflow Conversion Kit (Required)



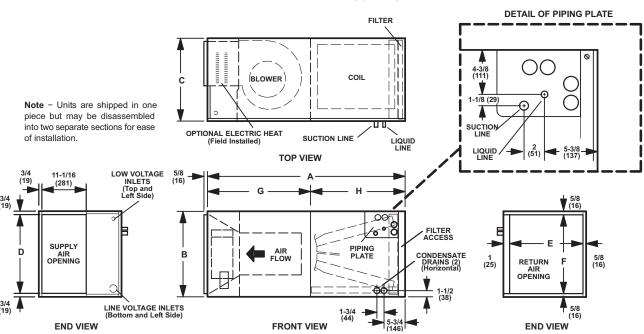
Note – Units are shipped in one piece but may be disassembled into two separate sections for ease of installation.

| Model No. | | А | В | C | D | Е | F | G | Н |
|-----------|-----|--------|--------|--------|--------|-----|-----|--------|--------|
| DCEZE 024 | 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 |
| DCEZE OCO | in. | 62-1/2 | 21-1/4 | 24-5/8 | 19-3/4 | 23 | 20 | 27-7/8 | 34-5/8 |
| BCE7E-060 | mm | 1588 | 540 | 625 | 502 | 584 | 508 | 708 | 879 |

RIGHT-HAND AIR DISCHARGE

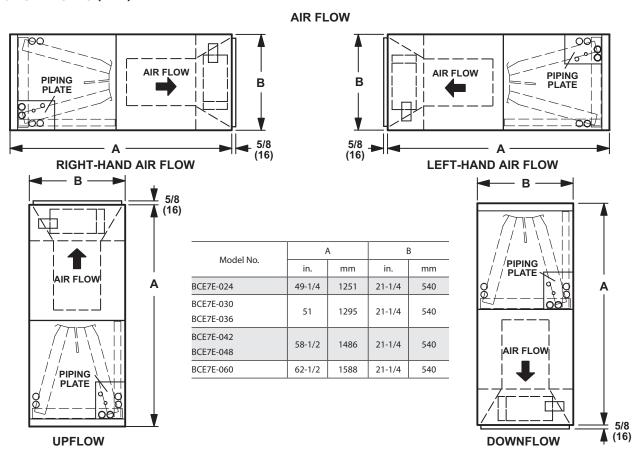


LEFT-HAND AIR DISCHARGE

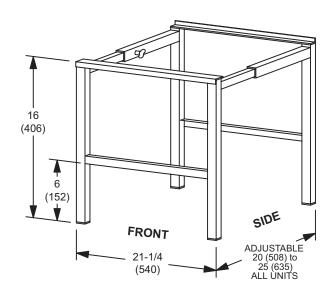


| Model No. | Α | | В | | С | | D | | E | | F | | G | | Н | |
|------------------------|--------|------|--------|-----|--------|-----|--------|-----|------|-----|------|-----|--------|-----|--------|-----|
| | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm |
| 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 |

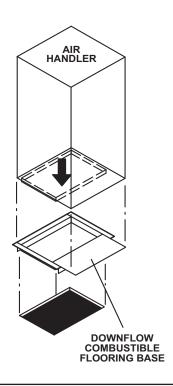




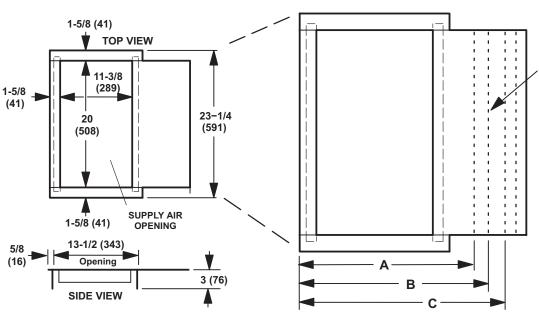
SIDE RETURN UNIT STAND (Upflow Only)



DOWNFLOW COMBUSTIBLE FLOORING BASE



Catalog No. - 44K15



Break off extended width at pre-perforated line to fit specific air handler application.

NOTE - Width of base includes an additional 2 in. (51 mm) for air handler positioning adjustment.

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