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LENNOX CB19-26 Owner's Manual

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**CB19 AND CBH19 SERIES
UP-FLOW, DOWN-FLOW AND HORIZONTAL
BLOWER COIL UNITS**

**CB19/
CBH19**

***12,600 to 65,500 Btuh (3.7 to 19.2 kW) Cooling Capacity**
11,500 to 60,000 Btuh (3.4 to 17.6 kW) Heat Pump Heating Capacity
6,400 to 102,400 Btuh (1.9 to 30.0 kW) Optional Electric Heat

Bulletin #210056
January 1995
Supersedes
April 1994

*ARI Standard 210/240 Ratings With Matching Outdoor Unit

Applications — The CB19 and CBH19 blower coil units are designed for multi-position installation in a basement, utility room, alcove, closet, crawlspace or attic. Units are applicable to expansion valve systems in cooling applications and check and expansion valve systems in heat pump applications. Units have factory installed check and expansion valve. Several models are available in varying sizes with a wide range of cooling and heating capacities. See Condensing Unit bulletins in section Cooling Units — Condensing Units for cooling capacities. See Heat Pump Outdoor Unit Bulletins in section Heat Pumps — Matched Remote Systems for cooling and heating capacities. Optional field installed electric heaters are available in several sizes for additive heating capacity.

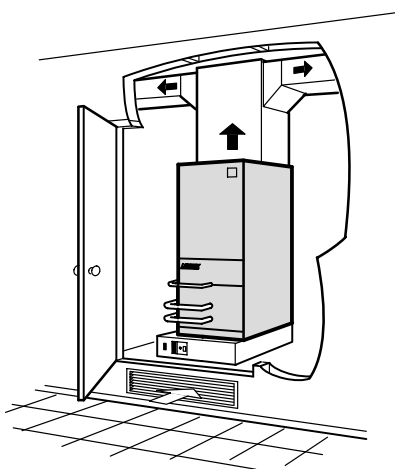
CB19 models are applicable to up-flow or down-flow discharge air applications. Units are shipped for up-flow applications and may easily be field converted to the down-flow position by turning the unit upside down and repositioning the coil, drip shields and cabinet access panel. Filters are not furnished and must be provided by the installer. An optional side return air adapter with filter(s) is available for up-flow applications only. An optional additive base is available for models with electric heat installed in the down-flow position on combustible floors.

CBH19 models are designed for horizontal discharge air applications. Units are furnished with left hand air discharge as standard and may be field changed to right hand discharge by turning the unit over (end for end) and repositioning the coil. CBH19-51 and CBH19-65 models are furnished in a two piece cabinet with blower and optional electric heaters in one section and the indoor coil in the other. Hardware is furnished for field connection of cabinets. Filters are not furnished and must be provided by the installer.

CB19 MODEL — UP-FLO

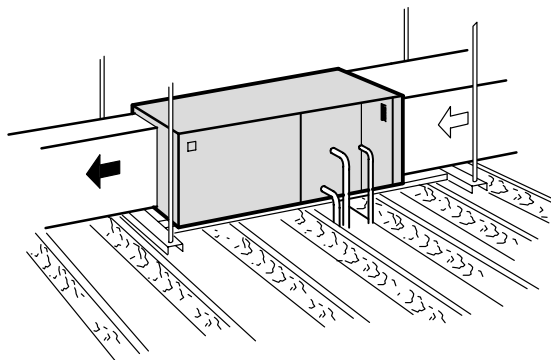
CB19 MODEL — DOWN-FLO

CBH19 MODEL — HORIZONTAL

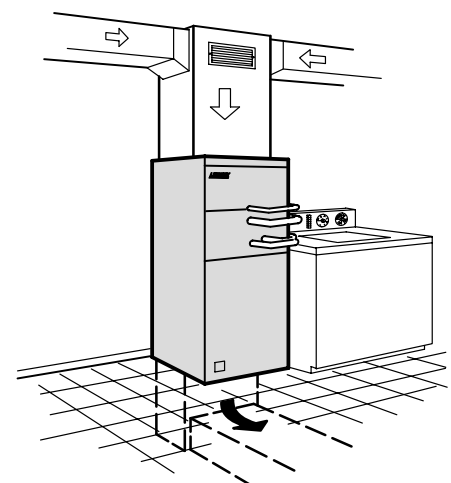


Up-Flow Installation
with optional electronic air cleaner

Typical Applications



Horizontal Installation



Down-Flow Installation

☼ The maple leaf symbol in this bulletin denotes Canadian only usage where applicable

NOTE — Due to Lennox' ongoing commitment to quality, Specifications, Ratings and Dimensions subject to change without notice and without incurring liability.

FEATURES

Completely Tested — Blower coil units are tested with matching condensing units in the Lennox Research Laboratory environmental test room in accordance with ARI Standard 210/240-89. Optional electric heaters are rated in accordance with U.S. Department of Energy (DOE) test procedures and Federal Trade Commission (FTC) labeling regulations. Blower performance data is according to actual unit tests conducted in Lennox air test chamber. Blower-coil units and components within are bonded for grounding to meet safety standards for servicing required by U.L., C.S.A., CEC and NEC.

Cabinet — Constructed of heavy gauge galvanized steel and completely insulated with thick fiberglass insulation. The pre-painted steel cabinets have a finish of mildly textured enamel with a primer coat on the unpainted side of all panels. Removable panels provide complete service access. Electrical inlets are provided in both sides of cabinet. Return air entry is possible in either side or bottom of cabinet on up-flow units.

Drain Pan — Deep, corrosion resistant drain pan has dual pipe drains extended outside of cabinet for ease of connection. See dimension drawings.

Direct Drive Blower — Equipped with a Lennox designed and built direct drive blower. Each blower is statically and dynamically balanced as an assembly before it is installed in the unit. Multi-speed motor is resiliently mounted. A choice of blower speeds is available. See blower performance tables. Change of blower speeds is easily accomplished by a simple change in wiring.

Refrigerant Line Connections — Suction (vapor) and liquid lines have sweat connections and extend outside of the cabinet for ease of connection. See dimension drawings for locations.

Check and Expansion Valve Furnished — Check and expansion valve furnished and factory installed on all models.

Copper Tube/Enhanced Fin Evaporator Coil — Lennox designed twin coils, assembled in a 'V' configuration, provides extra large surface and contact area, excellent heat transfer and low air resistance for maximum efficiency. Precise circuiting gives uniform refrigerant distribution. Lennox fabricated coil is constructed of precisely spaced ripple-edged aluminum fins fitted to durable seamless copper tubes. Fins are strengthened to resist bending and are equipped with collars that grip tubing for maximum contact area. Lanced fins provide maximum exposure of fin surface to air stream. Flared shoulder tubing joints and silver soldering provide tight, leak-proof joints. Long life copper tubing is easy to field service. Coil is thoroughly factory tested under high pressure to insure leakproof construction.

Transformer and Blower Cooling Relay — A 24 volt transformer and blower cooling relay are furnished as standard equipment and are factory installed in the unit control box. A terminal strip is also furnished as standard.

OPTIONAL ACCESSORIES (Must Be Ordered Extra)

Electric Heat (Optional) — Additive electric heaters field install internal to the unit cabinet and are available in several kw sizes, see Electric Heat table. The helix wound nichrome bare heating elements are exposed directly in the air stream resulting in instant heat transfer, low element temperatures and long service life. Each heating element is equipped with accurately located limit control with fixed temperature off setting and automatic reset. In addition, elements have supplemental thermal cutoff safety fuses providing positive protection in case of excessive temperatures. Cutoff fuses are mounted external to the element face plate for quick and easy replacement. Thermal sequencer relay brings the heating elements on and off line, in sequence and equal increments, with a time delay between each element. Sequencer also initiates and terminates blower operation. Heating control relay(s), is furnished as standard. Control box and access cover are constructed of heavy gauge galvanized steel. Heaters are factory assembled with controls installed and wired and only require plug-in field connection.

Circuit Breakers — ECB19-12.5,-15,-20,-25 and -30 kw (208/240v-1ph) and ECB19-15,-20 and -25 kw (208/240v-3ph) electric heaters are equipped with circuit breakers to provide overload and short circuit protection. Breakers are factory wired and mounted on electric heat unit. Circuit breakers are current sensitive and temperature actuated to shut off heater if current draw is excessive. Must be reset manually. Circuit breakers qualify as the disconnect means at unit in many areas and eliminate the need for a field provided disconnect. Consult local electrical code in your area.

Single-Point Power Source Control Box (Optional) — Control Box (21H39) may be used with optional electric heat when two or three circuits (if required by code) are specified. Field installs external to the unit cabinet on either side or top. Provides single power service connection to the unit. Constructed of heavy gauge steel with baked enamel finish, prepunched mounting holes, electrical inlet knockouts, and terminal strip. Removeable cover provides easy access. Box is 7" x 7" x 4" deep (178mm x 178mm x 102mm), shipping weight is 5 lbs. (2 kg.)

CCB1 EfficiencyPlus™ Humidity Control (Optional) — The CCB1 Humidity Control (35H00) is an electronic control which installs next to the room thermostat and allows the selection of the desired indoor humidity level in the cooling mode. During the heating season the control is inoperable. The CCB1 controls the indoor humidity by altering the indoor blower speed and the compressor speed. Humidity level desired may be accomplished by adjusting a vertical slide to a set point on a scale of 40% thru 60% with 50% recommended as the initial set point. Five indicator lights (MIN — MAX) in a bar graph configuration indicate the difference in the actual relative humidity and the set point. This indicates the demand imposed on the system equipment, the more lights on, the longer the equipment will operate to obtain the desired humidity level. If no lights are on, the humidity is at or below the set point. Control is not furnished and must be ordered extra. Requires EBR1 Blower Relay Kit

EBR1 Blower Relay Kit (Optional) — EBR1 Blower Relay Kit (75H90) allows CCB1 to be used with CB19/CBH19 blower coil units.

Down-Flow Additive Base (Optional) — An optional additive base is required for models with electric heat installed in the down-flow position on combustible floors. Base is not furnished and must be ordered extra for field installation. See Specifications table and dimension drawing.

Air Filters (Not Furnished) — Filters must be ordered extra. See Specifications tables for sizes. Filter rails are provided in return air opening of unit. See dimension drawings.

CB19 Up-Flow Side Return Air Filter Adaptor (Optional) — Field installs on either side return air opening of up-flow cabinet. Constructed of heavy gauge galvanized steel with a baked-on paint finish. Equipped with flanges for ease of duct connection. Access panel allows easy removal and replacement of filter(s). One inch thick (25mm) frame type filter is furnished as standard. Media is washable or vacuum cleanable oil coated polyurethane. CB19-21 thru 41 adaptor requires one filter. CB19-51 and CB19-65 model has two. See Specification table for sizes. CB19-51 and CB19-65 fiberglass insulated adaptor is shipped knocked down and must be field assembled.

SPECIFICATIONS – CB19 UP-FLOW/DOWN-FLOW

| Model Number | | CB19-21 | CB19-26 | CB19-31 | CB19-41 | CB19-51 | CB19-65 | |
|--------------------------------------------------|----------------------------------------------------|------------------------------|----------------------|-----------------------|-----------------------|-------------------------------|-----------------------|---------------|
| Evaporator Coil | Net face area – ft. ² (m ²) | 4.22 (0.39) | 4.22 (0.39) | 5.27 (0.49) | 5.27 (0.49) | 7.0 (0.65) | 7.0 (0.65) | |
| | Tube outside diameter – in. (mm) | 3/8 (9.5) | 3/8 (9.5) | 3/8 (9.5) | 3/8 (9.5) | 3/8 (9.5) | 3/8 (9.5) | |
| | Number of rows | 3 | 3 | 3 | 3 | 3 | 3 | |
| | Fins per inch (fins per m) | 12 (472) | 12 (472) | 13 (512) | 13 (512) | 14 (551) | 14 (551) | |
| | Suct. (vapor) line conn. – in. (mm) sweat | 5/8 (16) | 5/8 (16) | 3/4 (19) | 3/4 (19) | 7/8 (22.2) | 1-1/8 (28) | |
| | Liquid line conn. – in. (mm) sweat | 3/8 (9.5) | 3/8 (9.5) | 3/8 (9.5) | 3/8 (9.5) | 3/8 (9.5) | 3/8 (9.5) | |
| Condensate drain connection (pvc) – in. (mm) | | (2) 3/4 (19) | (2) 3/4 (19) | (2) 3/4 (19) | (2) 3/4 (19) | (2) 3/4 (19) | (2) 3/4 (19) | |
| Nominal cooling capacity – tons (kW) | | 1-1/2 (5.3) | 2 (7.0) | 2-1/2 (8.8) | 3 (10.6) | 4 (14.1) | 5 (17.6) | |
| Refrigerant | | HCFC-22 | | | | | | |
| Blower wheel nominal diameter x width – in. (mm) | | 9 x 7 (229 x 178) | 9 x 8 (229 x 203) | 10 x 7 (254 x 178) | 10 x 9 (254 x 229) | 11 x 8 (279 x 203) | 12 x 9 (317 x 229) | |
| Blower motor output – hp (W) | | 1/10 (75) | 1/5 (149) | 1/3 (149) | 1/3 (249) | 1/3 (249) | 1/2 (373) | |
| ††Number and size of filters | in. | (1) 16 x 20 x 1 | | (1) 20 x 20 x 1 | | (1) 20 x 25 x 1 | | |
| | mm | (1) 406 x 508 x 25 | | (1) 508 x 508 x 25 | | (1) 508 x 635 x 25 | | |
| Electrical characteristics | | 208/230 volts – 60 hz – 1 ph | | | | 208/230/460 volt 60 hz – 1 ph | | |
| Shipping weight – lbs. (kg) 1 package | | 143 (65) | 146 (66) | 167 (76) | 167 (76) | 209 (95) | 213 (97) | |
| ◆ Optional Accessories (Must Be Ordered Extra) ◆ | | | | | | | | |
| Side Return Air Filter Adaptor (Up-Flow Only) | Catalog number | | 95G73 | | 95G74 | | 95G75 | |
| | Number and size of filters | in. | (1) 16 x 20 x 1 | | (1) 20 x 20 x 1 | | (2) 16 x 25 x 1 | |
| | | mm | (1) 406 x 508 x 25 | | (1) 508 x 508 x 25 | | (2) 406 x 635 x 25 | |
| | Shipping weight – lbs. (kg) | | 4 (2) | | 5 (2) | | 24 (11) | |
| Down-Flow Combustible Base | Catalog number | | 85G52 | | 85G53 | | 85G54 | |
| | Ship. wt. – lbs. (kg) | | 8 (4) | | 8 (4) | | 8 (4) | |
| Electric Heat Capacity | ECB19-2.5 | *Output – Btuh (kW) | 9,000 (2.6) | 9,500 (2.8) | ---- | ---- | ---- | ---- |
| | | †A.F.U.E. | 100% | 100% | ---- | ---- | ---- | ---- |
| | ECB19-5 | *Output – Btuh (kW) | 18,000 (5.3) | 18,000 (5.3) | 18,000 (5.3) | 18,000 (5.3) | 19,000 (5.6) | ---- |
| | | †A.F.U.E. | 100% | 100% | 100% | 100% | 100% | ---- |
| | ECB19-6 | *Output – Btuh (kW) | 21,000 (6.2) | 22,000 (6.4) | 22,000 (6.4) | 22,000 (6.4) | 23,000 (6.7) | ---- |
| | | †A.F.U.E. | 100% | 100% | 100% | 100% | 100% | ---- |
| | ECB19-7.5 | *Output – Btuh (kW) | 25,000 (7.3) | 25,000 (7.3) | 25,000 (7.3) | 25,000 (7.3) | 26,000 (7.6) | ---- |
| | | †A.F.U.E. | 100% | 100% | 100% | 100% | 100% | ---- |
| | ECB19-8 | *Output – Btuh (kW) | 28,000 (8.2) | 28,000 (8.2) | 29,000 (8.5) | 29,000 (8.5) | 29,000 (8.5) | 30,000 (8.8) |
| | | †A.F.U.E. | 100% | 100% | 100% | 100% | 100% | 100% |
| | ECB19-10 | *Output – Btuh (kW) | 35,000 (10.3) | 35,000 (10.3) | 35,000 (10.3) | 35,000 (10.3) | 36,000 (10.5) | 37,000 (10.8) |
| | | †A.F.U.E. | 100% | 100% | 100% | 100% | 100% | 100% |
| | ECB19-12.5 | *Output – Btuh (kW) | ---- | 44,000 (12.9) | 44,000 (12.9) | 44,000 (12.9) | 45,000 (13.2) | 46,000 (13.5) |
| | | †A.F.U.E. | ---- | 100% | 100% | 100% | 100% | 100% |
| | ECB19-15 | *Output – Btuh (kW) | ---- | 52,000 (15.2) | 52,000 (15.2) | 53,000 (15.5) | 53,000 (15.5) | 54,000 (15.8) |
| | | †A.F.U.E. | ---- | 100% | 100% | 100% | 100% | 100% |
| | ECB19-20 | *Output – Btuh (kW) | ---- | ---- | ---- | 70,000 (20.5) | 70,000 (20.5) | 71,000 (20.8) |
| | | †A.F.U.E. | ---- | ---- | ---- | 100% | 100% | 100% |
| | ECB19-25 | *Output – Btuh (kW) | ---- | ---- | ---- | ---- | 87,000 (25.5) | 88,000 (25.8) |
| | | †A.F.U.E. | ---- | ---- | ---- | ---- | 100% | 100% |
| ECB19-30 | *Output – Btuh (kW) | ---- | ---- | ---- | ---- | ---- | 105,000 (30.8) | |
| | †A.F.U.E. | ---- | ---- | ---- | ---- | ---- | 100% | |

†Annual Fuel Utilization Efficiency based on U.S. DOE test procedures and according to FTC labeling regulations
 ††Filters are not furnished and must be ordered extra.
 *Includes additional blower motor heat capacity.

SPECIFICATIONS — CBH19 HORIZONTAL

| Model Number | | CBH19-21 | CBH19-26 | CBH19-31 | CBH19-41 | CBH19-51 | CBH19-65 | |
|--------------------------------------------------|----------------------------------------------------|-------------------------|----------------------|-----------------------|-----------------------|---------------------------|-----------------------|---------------|
| Blower section | | ---- | ---- | ---- | ---- | B19-51 | B19-65 | |
| Indoor coil section | | ---- | ---- | ---- | ---- | CH19-51 | CH19-65 | |
| Evaporator Coil | Net face area — ft. ² (m ²) | 4.22 (0.39) | 4.22 (0.39) | 5.27 (0.49) | 5.27 (0.49) | 7.22 (0.67) | 7.22 (0.67) | |
| | Tube outside diameter — in. (mm) | 3/8 (9.5) | 3/8 (9.5) | 3/8 (9.5) | 3/8 (9.5) | 3/8 (9.5) | 3/8 (9.5) | |
| | Number of rows | 3 | 3 | 3 | 3 | 3 | 3 | |
| | Fins per inch (fins per m) | 12 (472) | 12 (472) | 13 (512) | 13 (512) | 14 (551) | 14 (551) | |
| | Suct. (vapor) line conn. — in. (mm) sweat | 5/8 (16) | 5/8 (16) | 3/4 (19) | 3/4 (19) | 7/8 (22.2) | 1-1/8 (28) | |
| Liquid line connection — in. (mm) flare | 3/8 (9.5) | 3/8 (9.5) | 3/8 (9.5) | 3/8 (9.5) | 3/8 (9.5) | 3/8 (9.5) | | |
| Condensate drain connection (mpt) — in. (mm) | | (2) 3/4 (19) | (2) 3/4 (19) | (2) 3/4 (19) | (2) 3/4 (19) | (2) 3/4 (19) | (2) 3/4 (19) | |
| Nominal cooling capacity — tons (kW) | | 1-1/2 (5.3) | 2 (7.0) | 2-1/2 (8.8) | 3 (10.6) | 4 (14.1) | 5 (17.6) | |
| Refrigerant | | HCFC-22 | | | | | | |
| Blower wheel nominal diameter x width — in. (mm) | | 9 x 7 (229 x 178) | 9 x 8 (229 x 203) | 10 x 7 (254 x 178) | 10 x 9 (254 x 229) | 11 x 8 (279 x 203) | 12 x 9 (317 x 229) | |
| Blower motor output — hp (W) | | 1/10 (75) | 1/5 (149) | 1/3 (149) | 1/3 (249) | 1/3 (249) | 1/2 (373) | |
| ††Number and size of filters | in. | (1) 16 x 20 x 1 | | (1) 20 x 20 x 1 | | (1) 20 x 25 x 1 | | |
| | mm | (1) 406 x 508 x 25 | | (1) 508 x 508 x 25 | | (1) 508 x 635 x 25 | | |
| Electrical characteristics | | 208/230v — 60 hz — 1 ph | | | | 208/230/460v 60 hz — 1 ph | | |
| Shipping weight lbs. (kg) | Complete unit | 149 (68) | 149 (68) | 176 (80) | 178 (81) | 240 (109) | 242 (109) | |
| | Blower section | ---- | ---- | ---- | ---- | 118 (54) | 120 (54) | |
| | Coil section | ---- | ---- | ---- | ---- | 122 (55) | 122 (55) | |
| Number of packages in shipment | | 1 | 1 | 1 | 1 | 2 | 2 | |
| ◆ Optional Accessories (Must Be Ordered Extra) ◆ | | | | | | | | |
| Electric Heat Capacity | ECB19-2.5 | *Output — Btuh (kW) | 9,000 (2.6) | 9,500 (2.8) | ---- | ---- | ---- | ---- |
| | | †A.F.U.E. | 99.8% | 99.8% | ---- | ---- | ---- | ---- |
| | ECB19-5 | *Output — Btuh (kW) | 18,000 (5.3) | 18,000 (5.3) | 18,000 (5.3) | 18,000 (5.3) | 19,000 (5.6) | ---- |
| | | †A.F.U.E. | 99.7% | 99.7% | 99.9% | 100% | 100% | ---- |
| | ECB19-6 | *Output — Btuh (kW) | 21,000 (6.2) | 22,000 (6.4) | 22,000 (6.4) | 22,000 (6.4) | 23,000 (6.7) | ---- |
| | | †A.F.U.E. | 99.7% | 99.7% | 99.9% | 100% | 100% | ---- |
| | ECB19-7 | *Output — Btuh (kW) | 25,000 (7.3) | 25,000 (7.3) | 25,000 (7.3) | 25,000 (7.3) | 26,000 (7.6) | ---- |
| | | †A.F.U.E. | 99.7% | 99.7% | 99.9% | 100% | 100% | ---- |
| | ECB19-8 | *Output — Btuh (kW) | 28,000 (8.2) | 28,000 (8.2) | 29,000 (8.5) | 29,000 (8.5) | 29,000 (8.5) | 30,000 (8.8) |
| | | †A.F.U.E. | 99.7% | 99.7% | 99.8% | 100% | 100% | 100% |
| | ECB19-10 | *Output — Btuh (kW) | 35,000 (10.3) | 35,000 (10.3) | 35,000 (10.3) | 35,000 (10.3) | 36,000 (10.5) | 37,000 (10.8) |
| | | †A.F.U.E. | 99.7% | 99.7% | 99.8% | 99.9% | 100% | 100% |
| | ECB19-12.5 | *Output — Btuh (kW) | ---- | 44,000 (12.9) | 44,000 (12.9) | 44,000 (12.9) | 45,000 (13.2) | 46,000 (13.5) |
| | | †A.F.U.E. | ---- | 99.5% | 99.7% | 99.9% | 100% | 100% |
| | ECB19-15 | *Output — Btuh (kW) | ---- | 52,000 (15.2) | 52,000 (15.2) | 53,000 (15.5) | 53,000 (15.5) | 54,000 (15.8) |
| | | †A.F.U.E. | ---- | 99.5% | 99.7% | 99.9% | 100% | 100% |
| | ECB19-20 | *Output — Btuh (kW) | ---- | ---- | ---- | 70,000 (20.5) | 70,000 (20.5) | 71,000 (20.8) |
| | | †A.F.U.E. | ---- | ---- | ---- | 99.8% | 99.8% | 100% |
| ECB19-25 | *Output — Btuh (kW) | ---- | ---- | ---- | ---- | 87,000 (25.5) | 88,000 (25.8) | |
| | †A.F.U.E. | ---- | ---- | ---- | ---- | 99.8% | 99.9% | |
| ECB19-30 | *Output — Btuh (kW) | ---- | ---- | ---- | ---- | ---- | 105,000 (30.8) | |
| | †A.F.U.E. | ---- | ---- | ---- | ---- | ---- | 99.9% | |

†Annual Fuel Utilization Efficiency based on U.S. DOE test procedures and according to FTC labeling regulations

††Filters are not furnished and must be ordered extra.

*Includes additional blower motor heat capacity.

BLOWER DATA

UP-FLOW SIDE RETURN AIR FILTER ADAPTOR RESISTANCE

| Air Volume | | Filter Resistance | |
|------------|------|-------------------|----|
| cfm | L/s | in. wg. | Pa |
| 400 | 190 | .01 | 2 |
| 600 | 285 | .02 | 5 |
| 800 | 380 | .03 | 7 |
| 1000 | 470 | .05 | 12 |
| 1200 | 565 | .08 | 20 |
| 1400 | 660 | .08 | 20 |
| 1600 | 755 | .08 | 20 |
| 1800 | 850 | .09 | 22 |
| 2000 | 945 | .09 | 22 |
| 2200 | 1040 | .10 | 25 |
| 2400 | 1135 | .10 | 25 |

BLOWER DATA

CB19-21 AND CBH19-21 BLOWER PERFORMANCE

| External Static Pressure | | Air Volume at Various Blower Speeds | | | | | |
|--------------------------|-----|-------------------------------------|-----|--------|-----|-----|-----|
| | | High | | Medium | | Low | |
| in. wg. | Pa | cfm | L/s | cfm | L/s | cfm | L/s |
| 0 | 0 | 855 | 405 | 630 | 295 | 530 | 250 |
| .05 | 12 | 830 | 390 | 625 | 295 | 525 | 250 |
| .10 | 25 | 800 | 380 | 620 | 295 | 520 | 245 |
| .15 | 37 | 765 | 360 | 610 | 290 | 515 | 245 |
| .20 | 50 | 730 | 345 | 595 | 280 | 505 | 240 |
| .25 | 62 | 685 | 325 | 570 | 270 | 490 | 230 |
| .30 | 75 | 640 | 300 | 535 | 250 | 465 | 220 |
| .40 | 100 | 525 | 250 | 425 | 200 | 365 | 170 |

NOTE — All air data is measured external to unit.
Electric heaters have no appreciable air resistance.
For optional up-flow air filter resistance see separate table.

CB19-31 AND CBH19-31 BLOWER PERFORMANCE

| External Static Pressure | | Air Volume at Various Blower Speeds | | | | | |
|--------------------------|-----|-------------------------------------|-----|--------|-----|------|-----|
| | | High | | Medium | | Low | |
| in. wg. | Pa | cfm | L/s | cfm | L/s | cfm | L/s |
| 0 | 0 | 1400 | 660 | 1270 | 600 | 1050 | 495 |
| .05 | 12 | 1370 | 645 | 1250 | 590 | 1050 | 495 |
| .10 | 25 | 1335 | 630 | 1220 | 575 | 1050 | 495 |
| .15 | 37 | 1290 | 610 | 1190 | 560 | 1040 | 490 |
| .20 | 50 | 1240 | 585 | 1150 | 545 | 1025 | 485 |
| .25 | 62 | 1190 | 560 | 1110 | 525 | 1000 | 470 |
| .30 | 75 | 1130 | 535 | 1060 | 500 | 970 | 460 |
| .40 | 100 | 1000 | 470 | 945 | 445 | 885 | 420 |
| .50 | 125 | 855 | 405 | 815 | 385 | 765 | 360 |

NOTE — All air data is measured external to unit.
Electric heaters have no appreciable air resistance.
For optional up-flow air filter resistance see separate table.

CB19-51 AND CBH19-51 BLOWER PERFORMANCE WITH 208/230 VOLT MOTOR

| External Static Pressure | | Air Volume at Various Blower Speeds | | | | | |
|--------------------------|-----|-------------------------------------|-----|--------|-----|------|-----|
| | | High | | Medium | | Low | |
| in. wg. | Pa | cfm | L/s | cfm | L/s | cfm | L/s |
| 0 | 0 | 1950 | 920 | 1640 | 775 | 1380 | 650 |
| .05 | 12 | 1910 | 900 | 1620 | 765 | 1370 | 645 |
| .10 | 25 | 1870 | 880 | 1600 | 755 | 1350 | 635 |
| .15 | 37 | 1830 | 865 | 1580 | 745 | 1330 | 630 |
| .20 | 50 | 1780 | 840 | 1550 | 730 | 1310 | 620 |
| .25 | 62 | 1730 | 815 | 1520 | 715 | 1290 | 610 |
| .30 | 75 | 1680 | 795 | 1490 | 705 | 1260 | 595 |
| .40 | 100 | 1570 | 740 | 1400 | 660 | 1200 | 565 |
| .50 | 125 | 1410 | 665 | 1280 | 605 | 1100 | 520 |

NOTE — All air data is measured external to unit.
Electric heaters have no appreciable air resistance.
For optional up-flow air filter resistance see separate table.

CB19-65 AND CBH19-65 BLOWER PERFORMANCE WITH 208/230 VOLT MOTOR

| External Static Pressure | | Air Volume at Various Blower Speeds | | | | | |
|--------------------------|-----|-------------------------------------|------|--------|------|------|-----|
| | | High | | Medium | | Low | |
| in. wg. | Pa | cfm | L/s | cfm | L/s | cfm | L/s |
| 0 | 0 | 2415 | 1140 | 2205 | 1040 | 1830 | 865 |
| .05 | 12 | 2360 | 1115 | 2165 | 1020 | 1815 | 855 |
| .10 | 25 | 2305 | 1090 | 2125 | 1005 | 1800 | 850 |
| .15 | 37 | 2245 | 1060 | 2085 | 985 | 1780 | 840 |
| .20 | 50 | 2185 | 1030 | 2040 | 965 | 1760 | 830 |
| .25 | 62 | 2130 | 1005 | 2000 | 945 | 1735 | 820 |
| .30 | 75 | 2070 | 975 | 1950 | 920 | 1705 | 805 |
| .40 | 100 | 1940 | 915 | 1845 | 870 | 1630 | 770 |
| .50 | 125 | 1810 | 855 | 1725 | 815 | 1540 | 725 |
| .60 | 150 | 1665 | 785 | 1585 | 750 | 1405 | 665 |

NOTE — All air data is measured external to unit.
Electric heaters have no appreciable air resistance.
For optional up-flow air filter resistance see separate table.

CB19-26 AND CBH19-26 BLOWER PERFORMANCE

| External Static Pressure | | Air Volume at Various Blower Speeds | | | | | |
|--------------------------|-----|-------------------------------------|-----|--------|-----|-----|-----|
| | | High | | Medium | | Low | |
| in. wg. | Pa | cfm | L/s | cfm | L/s | cfm | L/s |
| 0 | 0 | 1150 | 545 | 1020 | 480 | 870 | 410 |
| .05 | 12 | 1105 | 520 | 985 | 465 | 860 | 405 |
| .10 | 25 | 1065 | 505 | 955 | 450 | 850 | 400 |
| .15 | 37 | 1020 | 480 | 920 | 435 | 825 | 390 |
| .20 | 50 | 960 | 455 | 875 | 415 | 795 | 375 |
| .25 | 62 | 905 | 425 | 830 | 390 | 755 | 355 |
| .30 | 75 | 845 | 400 | 780 | 370 | 710 | 335 |
| .40 | 100 | 680 | 320 | 625 | 295 | 550 | 260 |

NOTE — All air data is measured external to unit.
Electric heaters have no appreciable air resistance.
For optional up-flow air filter resistance see separate table.

CB19-41 AND CBH19-41 BLOWER PERFORMANCE

| External Static Pressure | | Air Volume at Various Blower Speeds | | | | | |
|--------------------------|-----|-------------------------------------|-----|--------|-----|------|-----|
| | | High | | Medium | | Low | |
| in. wg. | Pa | cfm | L/s | cfm | L/s | cfm | L/s |
| 0 | 0 | 1630 | 770 | 1380 | 650 | 1130 | 535 |
| .05 | 12 | 1590 | 750 | 1370 | 645 | 1150 | 545 |
| .10 | 25 | 1550 | 730 | 1350 | 635 | 1160 | 545 |
| .15 | 37 | 1500 | 710 | 1330 | 630 | 1160 | 545 |
| .20 | 50 | 1460 | 685 | 1310 | 620 | 1160 | 545 |
| .25 | 62 | 1400 | 660 | 1270 | 600 | 1150 | 545 |
| .30 | 75 | 1340 | 630 | 1230 | 580 | 1130 | 535 |
| .40 | 100 | 1200 | 565 | 1130 | 535 | 1050 | 495 |
| .50 | 125 | 1010 | 475 | 960 | 455 | 890 | 420 |

NOTE — All air data is measured external to unit.
Electric heaters have no appreciable air resistance.
For optional up-flow air filter resistance see separate table.

CB19-51 AND CBH19-51 BLOWER PERFORMANCE WITH 460 VOLT (1 phase) MOTOR

| External Static Pressure | | Air Volume at Various Blower Speeds | | | |
|--------------------------|-----|-------------------------------------|-----|------|-----|
| | | High | | Low | |
| in. wg. | Pa | cfm | L/s | cfm | L/s |
| 0 | 0 | 2020 | 955 | 1630 | 770 |
| .05 | 12 | 1950 | 920 | 1610 | 760 |
| .10 | 25 | 1920 | 905 | 1600 | 755 |
| .15 | 37 | 1870 | 880 | 1570 | 740 |
| .20 | 50 | 1820 | 860 | 1540 | 725 |
| .25 | 62 | 1770 | 835 | 1500 | 710 |
| .30 | 75 | 1710 | 805 | 1460 | 690 |
| .40 | 100 | 1590 | 750 | 1350 | 635 |
| .50 | 125 | 1430 | 675 | 1250 | 590 |

NOTE — All air data is measured external to unit.
Electric heaters have no appreciable air resistance.
For optional up-flow air filter resistance see separate table.

CB19-65 AND CBH19-65 BLOWER PERFORMANCE WITH 460 VOLT (1 phase) MOTOR

| External Static Pressure | | Air Volume at Various Blower Speeds | | | |
|--------------------------|-----|-------------------------------------|------|------|------|
| | | High | | Low | |
| in. wg. | Pa | cfm | L/s | cfm | L/s |
| 0 | 0 | 2380 | 1125 | 2250 | 1060 |
| .05 | 12 | 2340 | 1105 | 2180 | 1030 |
| .10 | 25 | 2290 | 1080 | 2140 | 1010 |
| .15 | 37 | 2250 | 1060 | 2110 | 995 |
| .20 | 50 | 2190 | 1035 | 2065 | 975 |
| .25 | 62 | 2130 | 1005 | 2015 | 950 |
| .30 | 75 | 2075 | 980 | 1970 | 930 |
| .40 | 100 | 1945 | 920 | 1860 | 880 |
| .50 | 125 | 1820 | 860 | 1760 | 830 |

NOTE — All air data is measured external to unit.
Electric heaters have no appreciable air resistance.
For optional up-flow air filter resistance see separate table.

ELECTRIC HEAT DATA — CB19/CBH19-21,-26

| Blower Coil Unit Model Number | Electric Heat Model Number & Shipping Weight | Number of Steps & Phase | Volts Input | kW Input | **Btuh Input | ●Blower Amps | *Minimum Circuit Ampacity | |
|---------------------------------------|----------------------------------------------|-------------------------|-------------|----------|--------------|--------------|---------------------------|-----------|
| | | | | | | | Circuit 1 | Circuit 2 |
| CB19-21 CBH19-21 | ECB19-2.5 (68G86) 4 lbs. (2 kg) | 1 step 1 phase | 208 | 1.9 | 6,400 | 1.0 | 12.3 | ---- |
| | | | 220 | 2.1 | 7,200 | 1.0 | 12.8 | ---- |
| | | | 230 | 2.3 | 7,800 | 1.0 | 13.4 | ---- |
| | | | 240 | 2.5 | 8,500 | 1.0 | 13.9 | ---- |
| | ECB19-5 (69G87) 4 lbs. (2 kg) | 1 step 1 phase | 208 | 3.8 | 12,800 | 1.0 | 23.5 | ---- |
| | | | 220 | 4.2 | 14,300 | 1.0 | 24.8 | ---- |
| | | | 230 | 4.6 | 15,700 | 1.0 | 25.9 | ---- |
| | | | 240 | 5.0 | 17,100 | 1.0 | 26.9 | ---- |
| | ECB19-6 (69G88) 5 lbs. (2 kg) | 2 steps 1 phase | 208 | 4.5 | 15,400 | 1.0 | 28.0 | ---- |
| | | | 220 | 5.0 | 17,100 | 1.0 | 29.3 | ---- |
| | | | 230 | 5.5 | 18,800 | 1.0 | 30.9 | ---- |
| | | | 240 | 6.0 | 20,500 | 1.0 | 32.2 | ---- |
| | ECB19-7 (69G89) 5 lbs. (2 kg) | 2 steps 1 phase | 208 | 5.3 | 17,900 | 1.0 | 32.5 | ---- |
| | | | 220 | 5.9 | 20,100 | 1.0 | 34.4 | ---- |
| | | | 230 | 6.4 | 21,900 | 1.0 | 35.8 | ---- |
| | | | 240 | 7.0 | 23,900 | 1.0 | 37.4 | ---- |
| | ECB19-8 (69G90) 5 lbs. (2 kg) | 2 steps 1 phase | 208 | 6.0 | 20,500 | 1.0 | 37.0 | ---- |
| | | | 220 | 6.7 | 22,900 | 1.0 | 39.0 | ---- |
| | | | 230 | 7.3 | 25,100 | 1.0 | 40.8 | ---- |
| | | | 240 | 8.0 | 27,300 | 1.0 | 42.6 | ---- |
| | ECB19-10 (69G91) 5 lbs. (2 kg) | 2 steps 1 phase | 208 | 7.5 | 25,600 | 1.0 | 45.9 | ---- |
| | | | 220 | 8.4 | 28,700 | 1.0 | 48.6 | ---- |
| | | | 230 | 9.2 | 31,400 | 1.0 | 50.8 | ---- |
| | | | 240 | 10.0 | 34,100 | 1.0 | 53.0 | ---- |
| CB19-26 CBH19-26 | ECB19-2.5 (69G86) 4 lbs. (2 kg) | 1 step 1 phase | 208 | 1.9 | 6,400 | 2.0 | 13.2 | ---- |
| | | | 220 | 2.1 | 7,200 | 2.0 | 13.7 | ---- |
| | | | 230 | 2.3 | 7,800 | 2.0 | 14.3 | ---- |
| | | | 240 | 2.5 | 8,500 | 2.0 | 14.8 | ---- |
| | ECB19-5 (69G87) 4 lbs. (2 kg) | 1 step 1 phase | 208 | 3.8 | 12,800 | 2.0 | 24.4 | ---- |
| | | | 220 | 4.2 | 14,300 | 2.0 | 25.7 | ---- |
| | | | 230 | 4.6 | 15,700 | 2.0 | 26.8 | ---- |
| | | | 240 | 5.0 | 17,100 | 2.0 | 27.8 | ---- |
| | ECB19-6 (69G88) 5 lbs. (2 kg) | 2 steps 1 phase | 208 | 4.5 | 15,400 | 2.0 | 28.9 | ---- |
| | | | 220 | 5.0 | 17,200 | 2.0 | 30.2 | ---- |
| | | | 230 | 5.5 | 18,800 | 2.0 | 31.8 | ---- |
| | | | 240 | 6.0 | 20,500 | 2.0 | 33.7 | ---- |
| | ECB19-7 (69G89) 5 lbs. (2 kg) | 2 steps 1 phase | 208 | 5.3 | 17,900 | 2.0 | 33.4 | ---- |
| | | | 220 | 5.9 | 20,100 | 2.0 | 35.3 | ---- |
| | | | 230 | 6.4 | 21,900 | 2.0 | 36.7 | ---- |
| | | | 240 | 7.0 | 23,900 | 2.0 | 38.3 | ---- |
| | ECB19-8 (69G90) 5 lbs. (2 kg) | 2 steps 1 phase | 208 | 6.0 | 20,500 | 2.0 | 37.9 | ---- |
| | | | 220 | 6.7 | 22,900 | 2.0 | 39.9 | ---- |
| | | | 230 | 7.3 | 25,100 | 2.0 | 41.7 | ---- |
| | | | 240 | 8.0 | 27,300 | 2.0 | 43.4 | ---- |
| | ECB19-10 (69G91) 5 lbs. (2 kg) | 2 steps 1 phase | 208 | 7.5 | 25,600 | 2.0 | 46.8 | ---- |
| | | | 220 | 8.4 | 28,700 | 2.0 | 49.5 | ---- |
| | | | 230 | 9.2 | 31,400 | 2.0 | 51.7 | ---- |
| | | | 240 | 10.0 | 34,100 | 2.0 | 53.9 | ---- |
| | ECB19-12.5 (69G92) 10 lbs. (5 kg) | 3 steps 1 phase | 208 | 9.4 | 32,000 | 2.0 | 39.4 | 18.9 |
| | | | 220 | 10.5 | 35,800 | 2.0 | 41.2 | 19.9 |
| | | | 230 | 11.5 | 39,200 | 2.0 | 43.4 | 20.8 |
| | | | 240 | 12.5 | 42,600 | 2.0 | 45.2 | 21.8 |
| ECB19-15 (69G93) 10 lbs. (5 kg) | 3 steps 1 phase | 208 | 11.3 | 38,400 | 2.0 | 46.9 | 22.7 | |
| | | 220 | 12.6 | 43,000 | 2.0 | 49.1 | 23.9 | |
| | | 230 | 13.5 | 47,000 | 2.0 | 51.7 | 25.0 | |
| | | 240 | 15.0 | 51,200 | 2.0 | 53.9 | 26.0 | |

*Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F (75°C).

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

●Minimum circuit ampacity for blower motor only.

ELECTRIC HEAT DATA – CB19/CBH19-31,-41

| Blower Coil Unit Model Number | Electric Heat Model Number & Shipping Weight | Number of Steps & Phase | Volts Input | kW Input | **Btuh Input | ●Blower Amps | *Minimum Circuit Ampacity | |
|---------------------------------------------------|----------------------------------------------|-------------------------|-------------|----------|--------------|--------------|---------------------------|-----------|
| | | | | | | | Circuit 1 | Circuit 2 |
| CB19-31 CBH19-31 and CB19-41 CBH19-41 | ECB19-5 (69G87) 4 lbs. (2 kg) | 1 step 1 phase | 208 | 3.8 | 12,800 | 3.0 | 25.0 | ---- |
| | | | 220 | 4.2 | 14,300 | 3.0 | 26.3 | ---- |
| | | | 230 | 4.6 | 15,700 | 3.0 | 27.4 | ---- |
| | | | 240 | 5.0 | 17,100 | 3.0 | 28.4 | ---- |
| | ECB19-6 (69G88) 5 lbs. (2 kg) | 2 steps 1 phase | 208 | 4.5 | 15,400 | 3.0 | 29.5 | ---- |
| | | | 220 | 5.0 | 17,100 | 3.0 | 30.8 | ---- |
| | | | 230 | 5.5 | 18,800 | 3.0 | 32.4 | ---- |
| | ECB19-7 (69G89) 5 lbs. (2 kg) | 2 steps 1 phase | 240 | 6.0 | 20,500 | 3.0 | 33.7 | ---- |
| | | | 208 | 5.3 | 17,900 | 3.0 | 34.0 | ---- |
| | | | 220 | 5.9 | 20,100 | 3.0 | 35.9 | ---- |
| | ECB19-8 (69G90) 5 lbs. (2 kg) | 2 steps 1 phase | 230 | 6.4 | 21,900 | 3.0 | 37.3 | ---- |
| | | | 240 | 7.0 | 23,900 | 3.0 | 38.9 | ---- |
| | | | 208 | 6.0 | 20,500 | 3.0 | 38.5 | ---- |
| | ECB19-10 (69G91) 5 lbs. (2 kg) | 2 steps 1 phase | 220 | 6.7 | 22,900 | 3.0 | 40.5 | ---- |
| | | | 230 | 7.3 | 25,100 | 3.0 | 43.3 | ---- |
| | | | 240 | 8.0 | 27,300 | 3.0 | 44.0 | ---- |
| | | | 208 | 7.5 | 25,600 | 3.0 | 47.4 | ---- |
| | ECB19-12.5 (68G92) 10 lbs. (5 kg) | 3 steps 1 phase | 220 | 8.4 | 28,700 | 3.0 | 50.1 | ---- |
| | | | 230 | 9.2 | 31,400 | 3.0 | 52.3 | ---- |
| | | | 240 | 10.0 | 34,100 | 3.0 | 54.5 | ---- |
| | | | 208 | 9.4 | 32,000 | 3.0 | 40.0 | 18.9 |
| | ECB19-15 (69G93) 10 lbs. (5 kg) | 3 steps 1 phase | 220 | 10.5 | 35,800 | 3.0 | 42.2 | 19.9 |
| | | | 230 | 11.5 | 39,200 | 3.0 | 44.0 | 20.8 |
| | | | 240 | 12.5 | 42,600 | 3.0 | 45.8 | 21.8 |
| 208 | | | 11.3 | 38,400 | 3.0 | 47.5 | 22.7 | |
| CB19-41 CBH19-41 | ECB19-5 (69G97) 6 lbs. (3 kg) | 3 steps 3 phase | 220 | 12.6 | 43,000 | 3.0 | 50.1 | 23.9 |
| | | | 230 | 13.5 | 47,000 | 3.0 | 52.3 | 25.0 |
| | | | 240 | 15.0 | 51,200 | 3.0 | 54.5 | 26.0 |
| | | | 208 | 11.3 | 38,400 | 3.0 | 47.5 | 22.7 |
| | ECB19-7.5 (69G98) 6 lbs. (3 kg) | 3 steps 3 phase | 220 | 12.6 | 43,000 | 3.0 | 50.1 | 23.9 |
| | | | 230 | 13.5 | 47,000 | 3.0 | 52.3 | 25.0 |
| | | | 240 | 15.0 | 51,200 | 3.0 | 54.5 | 26.0 |
| | | | 208 | 11.3 | 38,400 | 3.0 | 47.5 | 22.7 |
| | ECB19-10 (69G99) 6 lbs. (3 kg) | 3 steps 3 phase | 220 | 12.6 | 43,000 | 3.0 | 50.1 | 23.9 |
| | | | 230 | 13.5 | 47,000 | 3.0 | 52.3 | 25.0 |
| | | | 240 | 15.0 | 51,200 | 3.0 | 54.5 | 26.0 |
| | | | 208 | 11.3 | 38,400 | 3.0 | 47.5 | 22.7 |
| | ECB19-15 (70G00) 9 lbs. (4 kg) | 3 steps 3 phase | 220 | 12.6 | 43,000 | 3.0 | 50.1 | 23.9 |
| | | | 230 | 13.5 | 47,000 | 3.0 | 52.3 | 25.0 |
| | | | 240 | 15.0 | 51,200 | 3.0 | 54.5 | 26.0 |
| | | | 208 | 11.3 | 38,400 | 3.0 | 47.5 | 22.7 |
| | ECB19-20 (69G94) 14 lbs. (6 kg) | 3 steps 1 phase | 220 | 15.0 | 51,200 | 3.0 | 54.5 | 26.0 |
| | | | 230 | 16.8 | 57,300 | 3.0 | 50.1 | 47.8 |
| | | | 240 | 18.4 | 62,700 | 3.0 | 52.3 | 49.9 |
| | | | 208 | 15.0 | 51,200 | 3.0 | 47.4 | 45.0 |
| ECB19-20 (69G94) 14 lbs. (6 kg) | 3 steps 1 phase | 220 | 16.8 | 57,300 | 3.0 | 50.1 | 47.8 | |
| | | 230 | 18.4 | 62,700 | 3.0 | 52.3 | 49.9 | |
| | | 240 | 20.0 | 68,200 | 3.0 | 54.5 | 52.2 | |
| | | 208 | 15.0 | 51,200 | 3.0 | 47.4 | 45.0 | |

*Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F (75°C).

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

●Minimum circuit ampacity for blower motor only.

ELECTRIC HEAT DATA — CB19/CBH19-51

| Blower Coil Unit Model Number | Electric Heat Model Number & Shipping Weight | Number of Steps & Phase | Volts Input | kW Input | **Btuh Input | ●Blower Amps | *Minimum Circuit Ampacity | | |
|---------------------------------------|----------------------------------------------|-------------------------|-------------|----------|--------------|--------------|---------------------------|-----------|-----------|
| | | | | | | | Circuit 1 | Circuit 2 | Circuit 3 |
| CB19-51 CBH19-51 | ECB19-5 (69G87) 4 lbs. (2 kg) | 1 step 1 phase | 208 | 3.8 | 12,800 | 3.0 | 25.7 | ---- | ---- |
| | | | 220 | 4.2 | 14,300 | 3.0 | 26.9 | ---- | ---- |
| | | | 230 | 4.6 | 15,700 | 3.0 | 28.0 | ---- | ---- |
| | | | 240 | 5.0 | 17,100 | 3.0 | 29.0 | ---- | ---- |
| | ECB19-6 (69G88) 5 lbs. (2 kg) | 2 steps 1 phase | 208 | 4.5 | 15,400 | 3.0 | 30.2 | ---- | ---- |
| | | | 220 | 5.0 | 17,100 | 3.0 | 31.4 | ---- | ---- |
| | | | 230 | 5.5 | 18,800 | 3.0 | 33.0 | ---- | ---- |
| | | | 240 | 6.0 | 20,500 | 3.0 | 34.3 | ---- | ---- |
| | ECB19-7 (69G89) 5 lbs. (2 kg) | 2 steps 1 phase | 208 | 5.3 | 17,900 | 3.0 | 34.7 | ---- | ---- |
| | | | 220 | 5.9 | 20,100 | 3.0 | 36.6 | ---- | ---- |
| | | | 230 | 6.4 | 21,900 | 3.0 | 37.9 | ---- | ---- |
| | | | 240 | 7.0 | 23,900 | 3.0 | 39.5 | ---- | ---- |
| | ECB19-7 (70G03) 12 lbs. (5 kg) | 3 steps 3 phase | 440 | 5.9 | 20,100 | 3.0 | 11.3 | ---- | ---- |
| | | | 460 | 6.4 | 21,900 | 3.0 | 11.7 | ---- | ---- |
| | | | 480 | 7.0 | 25,900 | 3.0 | 12.2 | ---- | ---- |
| | ECB19-7.5 (69G98) 6 lbs. (3 kg) | 3 steps 3 phase | 208 | 5.6 | 19,200 | 3.0 | 22.5 | ---- | ---- |
| | | | 220 | 6.3 | 21,500 | 3.0 | 23.7 | ---- | ---- |
| | | | 230 | 6.9 | 23,500 | 3.0 | 24.7 | ---- | ---- |
| | | | 240 | 7.5 | 25,600 | 3.0 | 25.5 | ---- | ---- |
| | ECB19-8 (69G90) 5 lbs. (2 kg) | 2 steps 1 phase | 208 | 6.0 | 20,500 | 3.0 | 39.2 | ---- | ---- |
| | | | 220 | 6.7 | 22,900 | 3.0 | 41.1 | ---- | ---- |
| | | | 230 | 7.3 | 25,100 | 3.0 | 42.9 | ---- | ---- |
| | | | 240 | 8.0 | 27,300 | 3.0 | 44.7 | ---- | ---- |
| | ECB19-10 (69G91) 5 lbs. (2 kg) | 2 steps 1 phase | 208 | 7.5 | 25,600 | 3.0 | 48.0 | ---- | ---- |
| | | | 220 | 8.4 | 28,700 | 3.0 | 50.8 | ---- | ---- |
| | | | 230 | 9.2 | 31,400 | 3.0 | 52.9 | ---- | ---- |
| | | | 240 | 10.0 | 34,100 | 3.0 | 55.2 | ---- | ---- |
| | ECB19-10 (69G99) 6 lbs. (3 kg) | 3 steps 3 phase | 208 | 7.5 | 25,600 | 3.0 | 29.0 | ---- | ---- |
| | | | 220 | 8.4 | 28,700 | 3.0 | 30.6 | ---- | ---- |
| | | | 230 | 9.2 | 31,400 | 3.0 | 31.9 | ---- | ---- |
| | | | 240 | 10.0 | 34,100 | 3.0 | 33.2 | ---- | ---- |
| | ECB19-10 (70G04) 12 lbs. (5 kg) | 3 steps 3 phase | 440 | 8.4 | 28,700 | 2.0 | 15.4 | ---- | ---- |
| | | | 460 | 9.2 | 31,400 | 2.0 | 16.1 | ---- | ---- |
| | | | 480 | 10.0 | 34,100 | 2.0 | 16.7 | ---- | ---- |
| | | | 208 | 9.4 | 32,000 | 3.0 | 40.7 | 18.9 | ---- |
| | ECB19-12.5 (68G92) 10 lbs. (5 kg) | 3 steps 1 phase | 220 | 10.5 | 35,800 | 3.0 | 42.8 | 19.9 | ---- |
| | | | 230 | 11.5 | 39,200 | 3.0 | 44.7 | 20.8 | ---- |
| | | | 240 | 12.5 | 42,600 | 3.0 | 46.4 | 21.8 | ---- |
| | | | 208 | 11.3 | 38,400 | 3.0 | 48.2 | 22.7 | ---- |
| | ECB19-15 (69G93) 10 lbs. (5 kg) | 3 steps 1 phase | 220 | 12.6 | 43,000 | 3.0 | 50.8 | 23.9 | ---- |
| 230 | | | 13.5 | 47,000 | 3.0 | 52.9 | 25.0 | ---- | |
| 240 | | | 15.0 | 51,200 | 3.0 | 55.2 | 26.0 | ---- | |
| 208 | | | 11.3 | 38,400 | 2.0 | 42.2 | ---- | ---- | |
| ECB19-15 (70G00) 9 lbs. (4 kg) | 3 steps 3 phase | 220 | 12.6 | 43,000 | 2.0 | 44.3 | ---- | ---- | |
| | | 230 | 13.5 | 47,000 | 2.0 | 46.3 | ---- | ---- | |
| | | 240 | 15.0 | 51,200 | 2.0 | 48.2 | ---- | ---- | |
| | | 440 | 12.6 | 43,000 | 2.0 | 22.3 | ---- | ---- | |
| ECB19-15 (70G05) 12 lbs. (5 kg) | 3 steps 3 phase | 460 | 13.8 | 47,000 | 2.0 | 23.3 | ---- | ---- | |
| | | 480 | 15.0 | 51,200 | 2.0 | 24.2 | ---- | ---- | |
| | | 208 | 15.0 | 51,200 | 3.0 | 48.0 | 45.0 | ---- | |
| ECB19-20 (69G94) 14 lbs. (6 kg) | 4 steps 1 phase | 220 | 16.8 | 57,300 | 3.0 | 50.8 | 47.8 | ---- | |
| | | 230 | 18.4 | 62,700 | 3.0 | 52.9 | 49.9 | ---- | |
| | | 240 | 20.0 | 68,200 | 3.0 | 55.2 | 52.2 | ---- | |
| | | 208 | 15.0 | 51,200 | 2.0 | 29.0 | 26.0 | ---- | |
| ECB19-20 (70G01) 19 lbs. (9 kg) | 6 steps 3 phase | 220 | 16.8 | 57,300 | 2.0 | 30.6 | 27.6 | ---- | |
| | | 230 | 18.4 | 62,700 | 2.0 | 31.9 | 28.9 | ---- | |
| | | 240 | 20.0 | 68,200 | 2.0 | 33.2 | 30.2 | ---- | |
| | | 440 | 16.8 | 57,300 | 2.0 | 29.2 | ---- | ---- | |
| ECB19-20 (70G06) 18 lbs. (8 kg) | 6 steps 3 phase | 460 | 18.4 | 62,700 | 2.0 | 30.5 | ---- | ---- | |
| | | 480 | 20.0 | 68,200 | 2.0 | 31.7 | ---- | ---- | |
| | | 208 | 18.8 | 64,100 | 2.0 | 48.0 | 45.0 | 22.7 | |
| ECB19-25 (69G95) 18 lbs. (8 kg) | 5 steps 1 phase | 220 | 21.0 | 71,700 | 2.0 | 50.8 | 47.8 | 23.9 | |
| | | 230 | 23.0 | 78,300 | 2.0 | 52.9 | 49.9 | 25.0 | |
| | | 240 | 25.0 | 85,300 | 2.0 | 55.2 | 52.2 | 26.0 | |

*Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F (75°C).
 **Electric heater capacity only — does not include additional blower motor heat capacity.
 ●Minimum circuit ampacity for blower motor only.

ELECTRIC HEAT DATA – CB19/CBH19-65

| Blower Coil Unit Model Number | Electric Heat Model Number & Shipping Weight | Number of Steps & Phase | Volts Input | kW Input | **Btuh Input | ●Blower Amps | *Minimum Circuit Ampacity | | |
|---------------------------------------|----------------------------------------------|-------------------------|-------------|----------|--------------|--------------|---------------------------|-----------|-----------|
| | | | | | | | Circuit 1 | Circuit 2 | Circuit 3 |
| CB19-65 CBH19-65 | ECB19-8 (69G90) 5 lbs. (2 kg) | 2 steps 1 phase | 208 | 6.0 | 20,500 | 6.0 | 41.7 | ---- | ---- |
| | | | 220 | 6.7 | 22,900 | 6.0 | 43.6 | ---- | ---- |
| | | | 230 | 7.3 | 25,100 | 6.0 | 45.4 | ---- | ---- |
| | | | 240 | 8.0 | 27,300 | 6.0 | 47.2 | ---- | ---- |
| | ECB19-10 (69G91) 5 lbs. (2 kg) | 2 steps 1 phase | 208 | 7.5 | 25,600 | 6.0 | 50.5 | ---- | ---- |
| | | | 220 | 8.4 | 28,700 | 6.0 | 53.3 | ---- | ---- |
| | | | 230 | 9.2 | 31,400 | 6.0 | 55.4 | ---- | ---- |
| | | | 240 | 10.0 | 34,100 | 6.0 | 57.7 | ---- | ---- |
| | ECB19-10 (69G99) 12 lbs. (5 kg) | 3 steps 3 phase | 208 | 7.5 | 25,600 | 6.0 | 31.5 | ---- | ---- |
| | | | 220 | 8.4 | 28,700 | 6.0 | 33.1 | ---- | ---- |
| | | | 230 | 9.2 | 31,400 | 6.0 | 34.4 | ---- | ---- |
| | | | 240 | 10.0 | 34,100 | 6.0 | 35.7 | ---- | ---- |
| | ECB19-10 (70G04) 6 lbs. (3 kg) | 3 steps 3 phase | 440 | 8.4 | 28,700 | 3.0 | 16.2 | ---- | ---- |
| | | | 460 | 9.2 | 31,400 | 3.0 | 16.8 | ---- | ---- |
| | | | 480 | 10.0 | 34,100 | 3.0 | 17.4 | ---- | ---- |
| | ECB19-12.5 (69G92) 10 lbs. (5 kg) | 3 steps 1 phase | 208 | 9.4 | 32,000 | 6.0 | 43.2 | 18.9 | ---- |
| | | | 220 | 10.5 | 35,800 | 6.0 | 45.3 | 19.9 | ---- |
| | | | 230 | 11.5 | 39,200 | 6.0 | 47.2 | 20.8 | ---- |
| | | | 240 | 12.5 | 42,600 | 6.0 | 48.9 | 21.8 | ---- |
| | ECB19-15 (69G93) 10 lbs. (5 kg) | 3 steps 1 phase | 208 | 11.3 | 38,400 | 6.0 | 50.7 | 22.7 | ---- |
| | | | 220 | 12.6 | 43,000 | 6.0 | 53.3 | 23.9 | ---- |
| | | | 230 | 13.5 | 47,000 | 6.0 | 55.4 | 25.0 | ---- |
| | | | 240 | 15.0 | 51,200 | 6.0 | 57.7 | 26.0 | ---- |
| | ECB19-15 (70G00) 9 lbs. (4 kg) | 3 steps 3 phase | 208 | 11.3 | 38,400 | 6.0 | 44.7 | ---- | ---- |
| | | | 220 | 12.6 | 43,000 | 6.0 | 46.8 | ---- | ---- |
| | | | 230 | 13.5 | 47,000 | 6.0 | 48.8 | ---- | ---- |
| | | | 240 | 15.0 | 51,200 | 6.0 | 50.7 | ---- | ---- |
| | ECB19-15 (70G05) 12 lbs. (5 kg) | 3 steps 3 phase | 440 | 12.6 | 43,000 | 3.0 | 23.0 | ---- | ---- |
| | | | 460 | 13.8 | 47,000 | 3.0 | 24.0 | ---- | ---- |
| | | | 480 | 15.0 | 51,200 | 3.0 | 24.9 | ---- | ---- |
| | ECB19-20 (69G94) 14 lbs. (6 kg) | 4 steps 1 phase | 208 | 15.0 | 51,200 | 6.0 | 50.5 | 45.0 | ---- |
| | | | 220 | 16.8 | 57,300 | 6.0 | 53.3 | 47.8 | ---- |
| | | | 230 | 18.4 | 62,700 | 6.0 | 55.4 | 49.9 | ---- |
| | | | 240 | 20.0 | 68,200 | 6.0 | 57.7 | 52.2 | ---- |
| | ECB19-20 (70G01) 19 lbs. (9 kg) | 6 steps 3 phase | 208 | 15.0 | 51,200 | 6.0 | 31.5 | 26.0 | ---- |
| | | | 220 | 16.8 | 57,300 | 6.0 | 33.1 | 27.6 | ---- |
| 230 | | | 18.4 | 62,700 | 6.0 | 34.4 | 28.9 | ---- | |
| 240 | | | 20.0 | 68,200 | 6.0 | 35.7 | 30.2 | ---- | |
| ECB19-20 (70G06) 18 lbs. (8 kg) | 6 steps 3 phase | 440 | 16.8 | 57,300 | 3.0 | 29.9 | ---- | ---- | |
| | | 460 | 18.4 | 62,700 | 3.0 | 31.2 | ---- | ---- | |
| | | 480 | 20.0 | 68,200 | 3.0 | 32.4 | ---- | ---- | |
| ECB19-25 (69G95) 18 lbs. (8 kg) | 5 steps 1 phase | 208 | 18.8 | 64,100 | 6.0 | 50.5 | 45.0 | 22.7 | |
| | | 220 | 21.0 | 71,700 | 6.0 | 53.3 | 47.8 | 23.9 | |
| | | 230 | 23.0 | 78,300 | 6.0 | 55.4 | 49.9 | 25.0 | |
| | | 240 | 25.0 | 85,300 | 6.0 | 57.7 | 52.2 | 26.0 | |
| ECB19-25 (70G02) 19 lbs. (9 kg) | 6 steps 3 phase | 208 | 18.8 | 64,100 | 6.0 | 38.2 | 32.7 | ---- | |
| | | 220 | 21.0 | 71,700 | 6.0 | 39.9 | 34.4 | ---- | |
| | | 230 | 23.0 | 78,300 | 6.0 | 41.5 | 36.0 | ---- | |
| | | 240 | 25.0 | 85,300 | 6.0 | 43.2 | 37.7 | ---- | |
| ECB19-25 (70G07) 18 lbs. (8 kg) | 6 steps 3 phase | 440 | 21.0 | 71,700 | 3.0 | 36.8 | ---- | ---- | |
| | | 460 | 23.0 | 78,300 | 3.0 | 38.4 | ---- | ---- | |
| | | 480 | 25.0 | 85,300 | 3.0 | 39.9 | ---- | ---- | |
| ECB19-30 (69G96) 19 lbs. (9 kg) | 6 steps 1 phase | 208 | 22.5 | 76,900 | 6.0 | 50.5 | 45.0 | 45.0 | |
| | | 220 | 25.2 | 86,000 | 6.0 | 53.3 | 47.8 | 47.8 | |
| | | 230 | 27.5 | 94,000 | 6.0 | 55.4 | 49.9 | 49.9 | |
| | | 240 | 30.0 | 102,400 | 6.0 | 57.7 | 52.2 | 52.2 | |

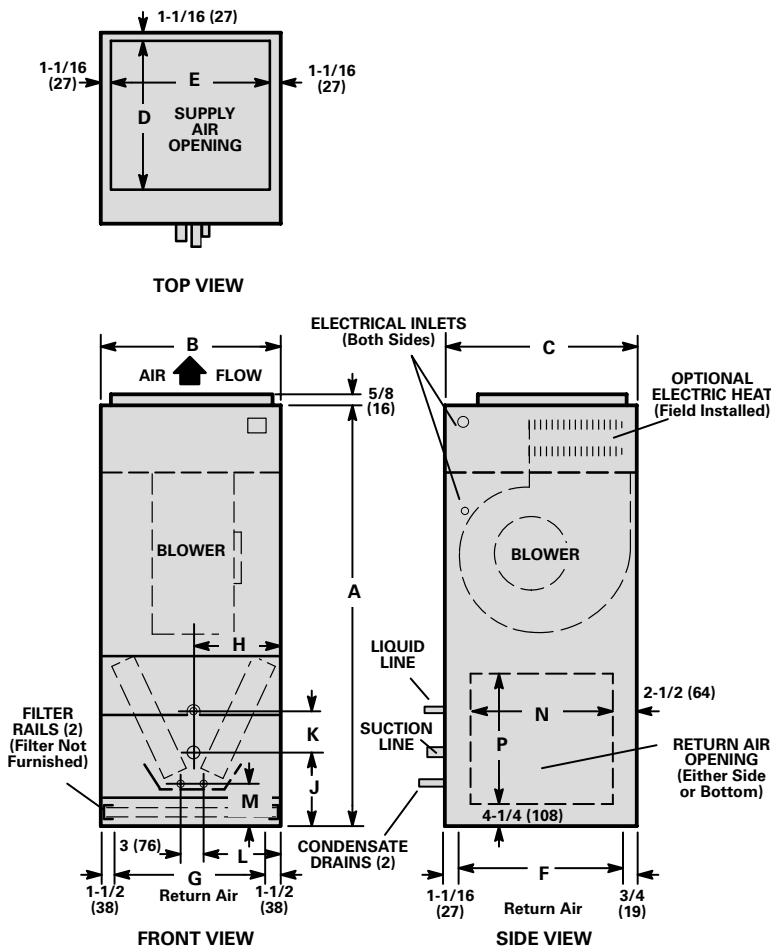
*Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F (75°C).

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

●Minimum circuit ampacity for blower motor only.

DIMENSIONS – inches (mm)

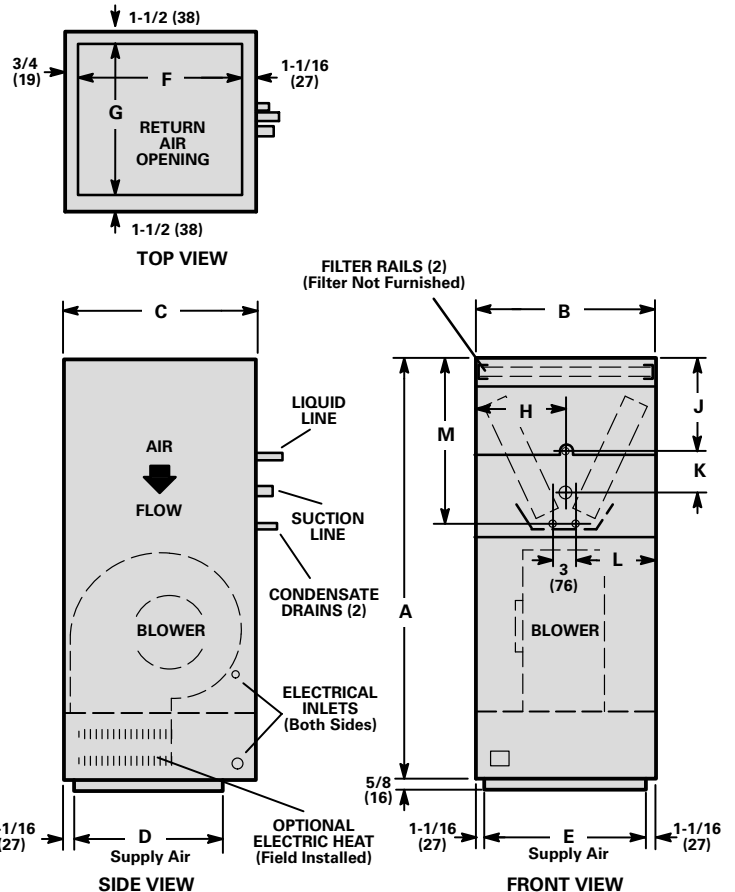
CB19 UP-FLOW POSITION



| Model No. | CB19-21 & -26 | | CB19-31 & -41 | | CB19-51 & -65 | |
|-----------|---------------|------|---------------|------|---------------|------|
| | inch | mm | inch | mm | inch | mm |
| A | 48 | 1219 | 51 | 1295 | 60 | 1524 |
| B | 18-1/4 | 464 | 21-1/2 | 546 | 23-1/4 | 591 |
| C | 23-1/4 | 591 | 23-1/4 | 591 | 25-1/4 | 641 |
| D | 18 | 457 | 18 | 457 | 20 | 508 |
| E | 15-7/8 | 403 | 19-1/8 | 486 | 20-7/8 | 530 |
| F | 21-7/16 | 545 | 21-7/16 | 545 | 23-7/16 | 595 |
| G | 15 | 381 | 18-1/4 | 464 | 20 | 508 |
| H | 9-1/8 | 232 | 10-3/4 | 273 | 11-5/8 | 295 |
| J | 7-7/16 | 189 | 10-5/16 | 262 | 11-11/16 | 297 |
| K | 5-1/4 | 133 | 5-1/4 | 133 | 10 | 254 |
| L | 7-9/16 | 192 | 9-3/16 | 233 | 10-1/16 | 256 |
| M | 5-5/8 | 143 | 5-3/16 | 132 | 7-11/16 | 195 |
| N | 18-1/4 | 464 | 18-1/4 | 464 | 20-1/4 | 514 |
| P | 14-1/4 | 362 | 18-1/4 | 464 | 25-1/4 | 641 |

CB19 DOWN-FLOW POSITION

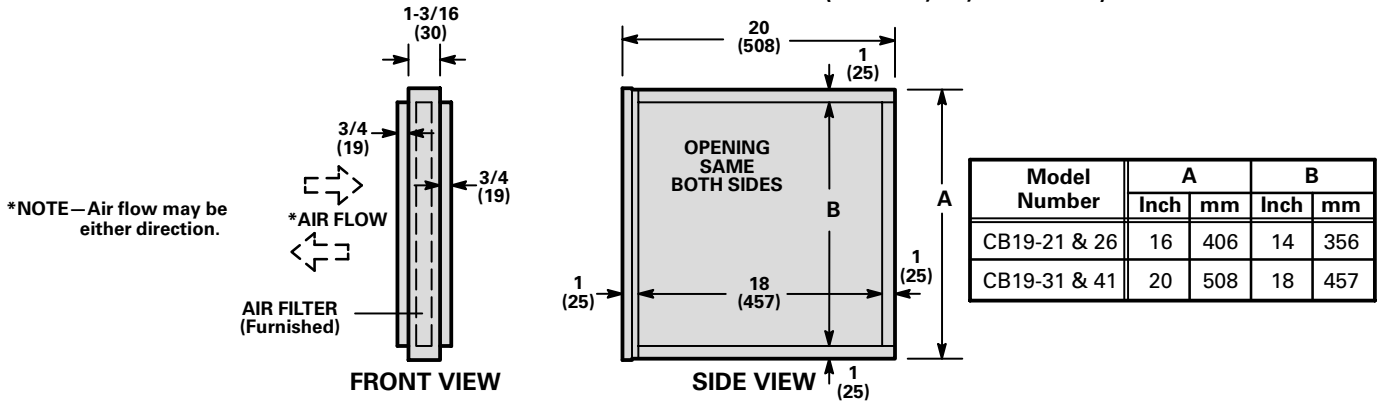
NOTE – When unit with optional electric heat is installed on a combustible floor, an additive base is required. Base is optional and must be ordered extra. When using additive base make opening in floor 2-3/8 inches (60mm) larger (side to side) and 2-1/2 inches (64mm) larger (front to rear) than unit supply air opening.



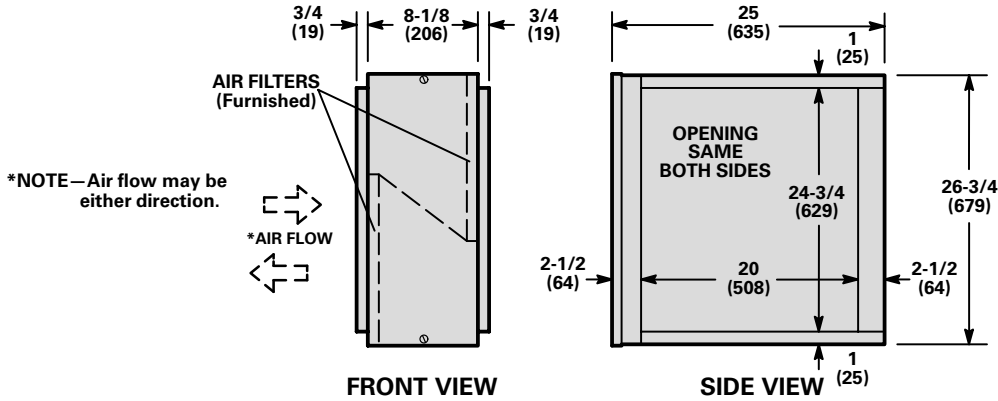
| Model No. | CB19-21 & -26 | | CB19-31 & -41 | | CB19-51 & -65 | |
|-----------|---------------|------|---------------|------|---------------|------|
| | inch | mm | inch | mm | inch | mm |
| A | 48 | 1219 | 51 | 1295 | 60 | 1524 |
| B | 18-1/4 | 464 | 21-1/2 | 546 | 23-1/4 | 591 |
| C | 23-1/4 | 591 | 23-1/4 | 591 | 25-1/4 | 641 |
| D | 18 | 457 | 18 | 457 | 20 | 508 |
| E | 15-7/8 | 403 | 19-1/8 | 486 | 20-7/8 | 530 |
| F | 21-7/16 | 545 | 21-7/16 | 545 | 23-7/16 | 595 |
| G | 15 | 381 | 18-1/4 | 464 | 20 | 508 |
| H | 9-1/8 | 232 | 10-3/4 | 273 | 11-5/8 | 295 |
| J | 8-15/16 | 227 | 12-3/4 | 324 | 11-7/18 | 302 |
| K | 5-1/4 | 133 | 5-1/4 | 133 | 10 | 254 |
| L | 7-9/16 | 192 | 9-3/16 | 233 | 10-1/16 | 256 |
| M | 9-3/16 | 233 | 22 | 559 | 25-7/8 | 657 |

DIMENSIONS – inches (mm)

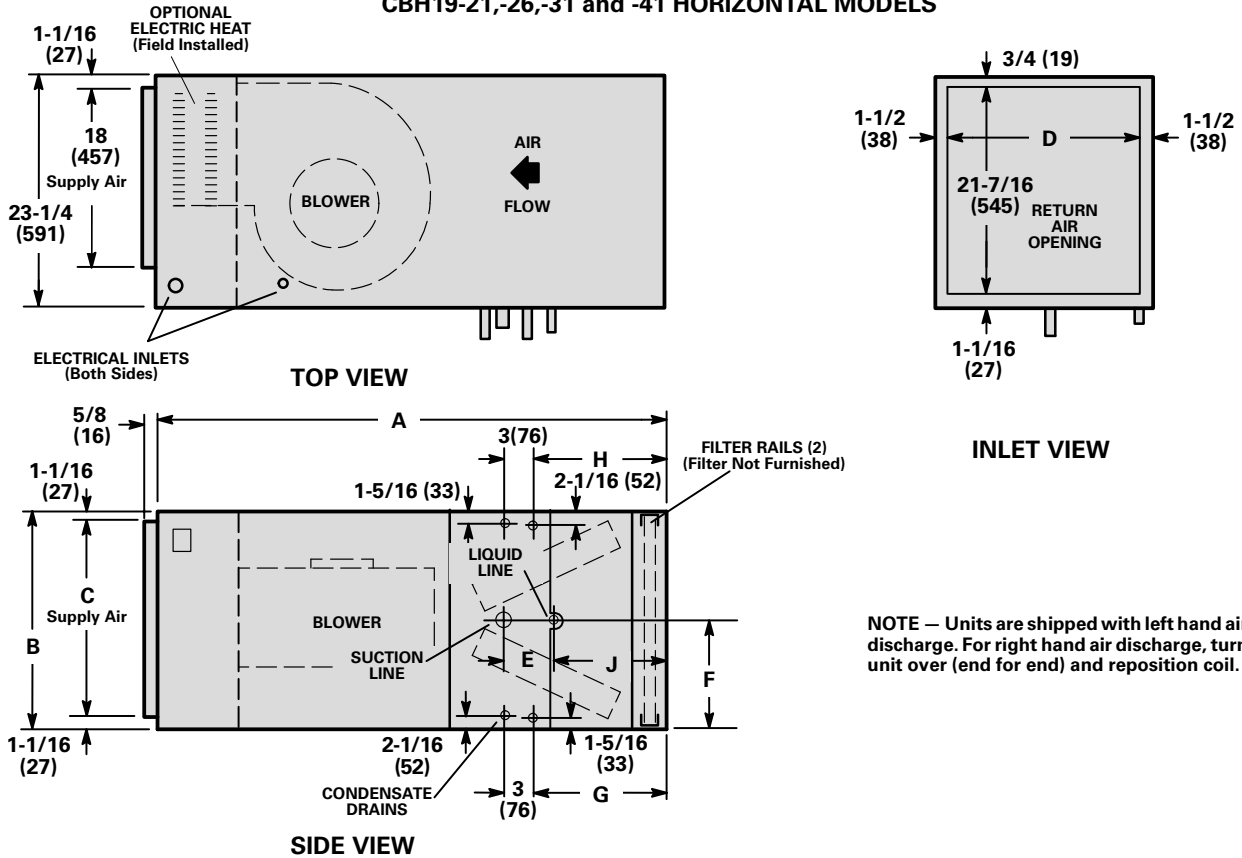
UP-FLOW SIDE RETURN AIR FILTER ADAPTOR (CB19-21,-26,-31 and -41)



UP-FLOW SIDE RETURN AIR FILTER ADAPTOR (CB19-51 and -65)



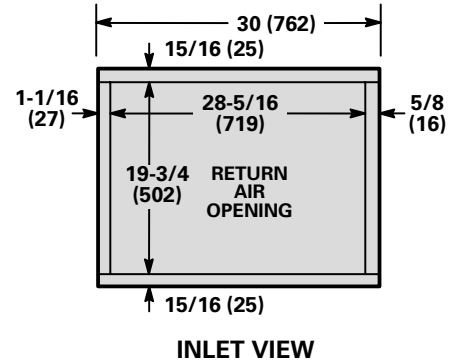
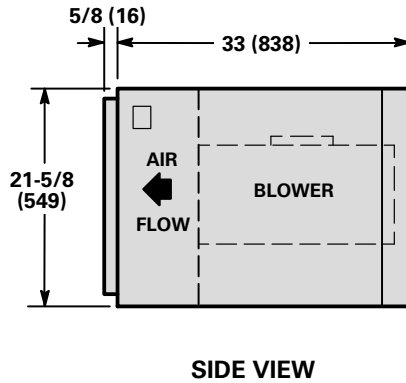
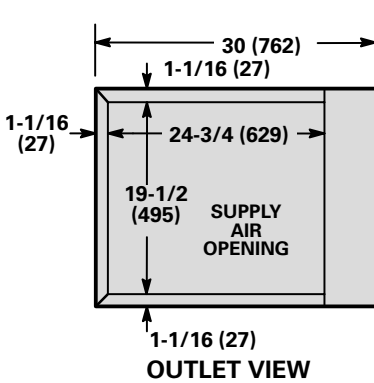
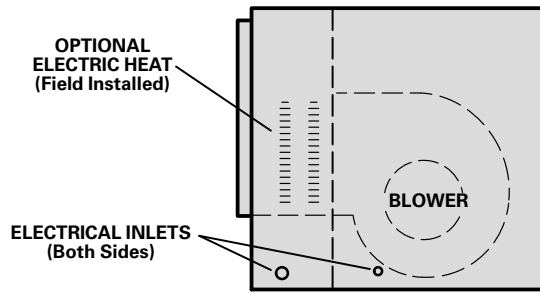
CBH19-21,-26,-31 and -41 HORIZONTAL MODELS



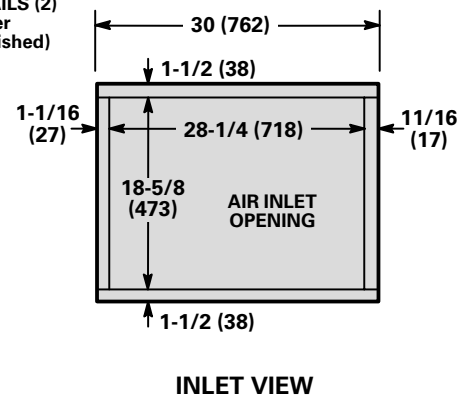
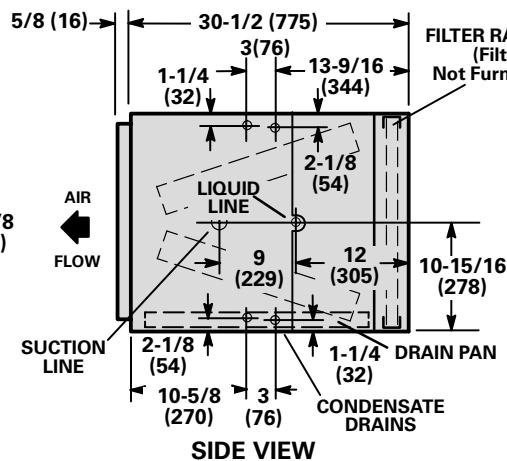
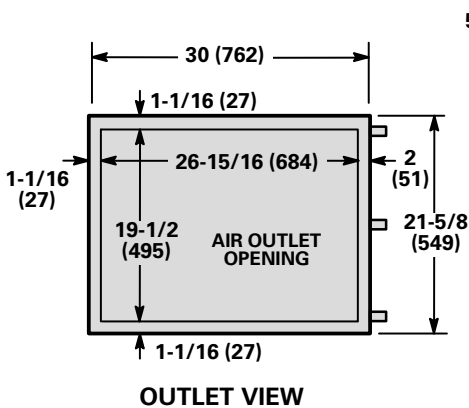
NOTE – Units are shipped with left hand air discharge. For right hand air discharge, turn unit over (end for end) and reposition coil.

| Model Number | A | | B | | C | | D | | E | | F | | G | | H | | J | |
|--------------|-----|------|--------|-----|--------|-----|--------|-----|-------|-----|--------|-----|--------|-----|---------|-----|---------|-----|
| | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm |
| CBH19-21,-26 | 48 | 1219 | 18-1/4 | 464 | 15-7/8 | 403 | 15 | 381 | 4-1/2 | 144 | 9-1/8 | 232 | 13-1/8 | 333 | 10-1/16 | 256 | 8-15/16 | 227 |
| CBH19-31,-41 | 51 | 1295 | 21-1/2 | 546 | 19-1/8 | 486 | 18-1/2 | 470 | 4-1/4 | 108 | 10-3/4 | 273 | 15 | 381 | 12 | 305 | 13-3/4 | 337 |

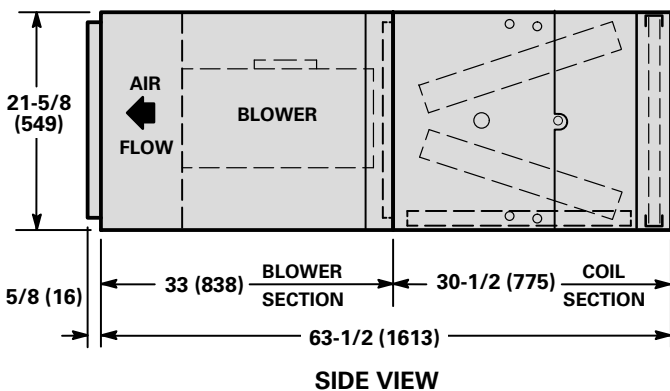
B19-51 and B19-65 BLOWER SECTION



CH19-51 and CH19-65 COIL SECTION



CBH19-51 and -65 HORIZONTAL MODELS



INSTALLATION CLEARANCES — ALL MODELS

| | |
|-----------------------------------------------------------|----------------|
| Cabinet | 0 inch (0 mm) |
| Plenum and Outlet duct on blower/coil units | 1 inch (25 mm) |
| Plenum and Warm air duct within 3 feet (914mm) of cabinet | 1 inch (25 mm) |
| Floor | *Combustible |

*When unit is installed in the down-flow position with electric heat on a combustible floor an optional down-flow base is required.

NOTE — Units are shipped with left hand air discharge. For right hand air discharge, turn unit over (end for end) and reposition coil.