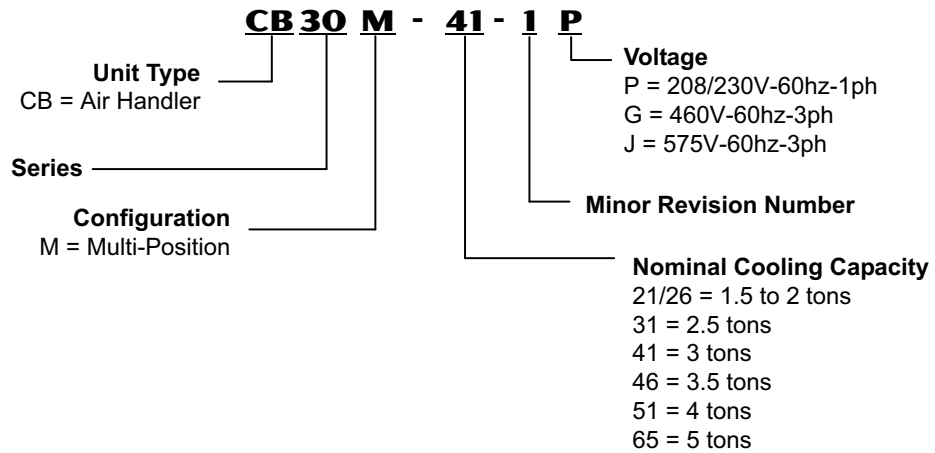




Nominal Capacity - 1.5 to 5 Tons
Optional Electric Heat - 2.5 to 30 kW

MODEL NUMBER IDENTIFICATION



FEATURES

CONTENTS

Blower Data	Pages 6-7
Dimensions	Pages 12-14
Electric Heat Data	Pages 8-11
Features	Pages 2-4
Installation Clearances	Page 4
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Specifications	Page 5

WARRANTY

All covered components - five years in residential applications, one year in non-residential applications. Refer to Lennox Limited Warranty Certificate included with each unit for additional details.

APPROVALS

Tested with matching air conditioners and heat pump units in the Lennox Research Laboratory environmental test room in accordance with ARI 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 Lennox 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.

ISO 9001 Registered Manufacturing Quality System.

APPLICATIONS

1.5 to 5 ton nominal sizes.

Multi-position (up-flow, down-flow or horizontal) applications. Optional Down-Flow Conversion Kit is available for field installation.

Applicable to expansion valve systems in cooling applications and check and expansion valve systems in heat pump applications

Wide range check and expansion valve factory installed. See bulletins in section, Air Conditioners for cooling capacities.

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

REFRIGERANT SYSTEM

1 Refrigerant Line Connections

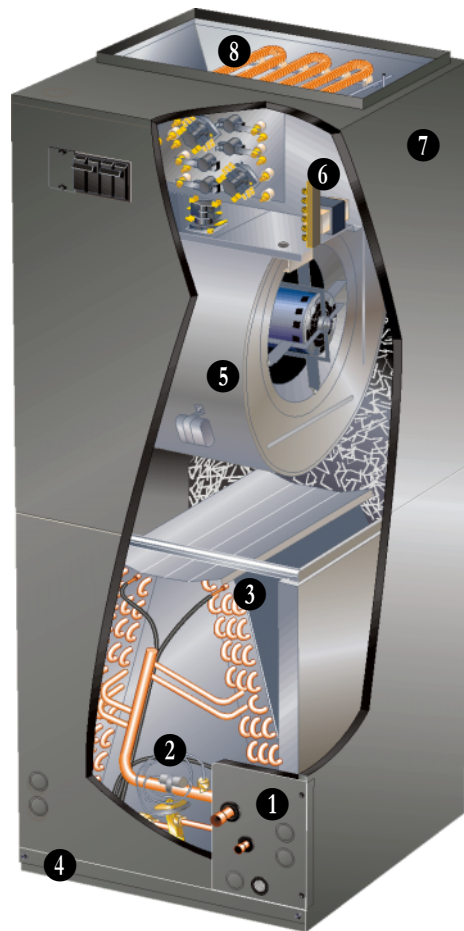
Suction (vapor) and liquid lines have sweat connections that extended outside of the cabinet for ease of connection.

See dimension drawings for locations.

2 Check and Expansion Valve Furnished

Wide range valve with Chatleff style fitting.

Factory installed on all models, internal to cabinet.



3 Copper Tube/Enhanced Fin Indoor Coil

Lennox designed and fabricated twin coils.

Assembled in "A" configuration

Provides extra large surface and contact area, excellent heat transfer and low air resistance for maximum efficiency.

Precise circuiting for uniform refrigerant distribution.

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.

Long life copper tubing easy to service.

Rifled tubing provides superior heat transfer.

Flared shoulder tubing joints and silver soldering provide tight, leakproof joints.

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

FEATURES

FILTER

- ④ 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.

BLOWER

- ⑤ Lennox designed and built direct-drive blower. Statically and dynamically balanced before installation in unit. Resiliently mounted multi-speed leadless motor with plug-in connections. Choice of blower speeds. See blower performance tables. Speed changes easily accomplished by a simple wiring change. Blower slides out of cabinet for servicing.

CONTROLS

- ⑥ **Transformer and Blower Cooling Relay**
24 volt transformer with in-line fuse and blower cooling relay furnished as standard. Factory installed in the unit control box. Terminal strip furnished.

OPTIONS

Thermostat

See Thermostat bulletins in Controls section and Lennox Price Book for a complete list of thermostats.

Step-down Transformer (575V Applications)

460V-3 phase units can be used in 575V applications. 575V electric heaters are shipped with a 575V to 460V step-down transformer. If no electric heat is used, order a 575V Step-down Transformer Kit.

CABINET

- ⑦ 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 provides 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.

Multi-Position Capability

Shipped for up-flow and horizontal right-hand discharge. Quickly converted to down-flow or left-hand, horizontal air discharge. Optional Kit required for conversion to down-flow.

Drain Pans

Drain pans designed for up-flow, down-flow or horizontal applications. Deep, corrosion resistant plastic drain pans have dual pipe drains. See dimension drawings.

OPTIONS

Down-Flow Additive Base (Down-Flow Only)

Additive base required for models with electric heat installed in down-flow position on combustible floors.

Down-Flow Conversion Kit

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

Horizontal Support Frame Kit

Provides support of unit in horizontal applications. Consists of (2) 1 x 1-1/2 x 32-5/8 in. and (2) 1 x 3 x 53-7/8 in. painted heavy gauge cold rolled steel support channels with assembly and suspending holes. Bolts and nuts furnished for field assembly. Suspending rods must be field provided.

Side Return Unit Stand (Up-Flow Only)

Raises unit 16 in. above floor for side return air duct connection. Eliminates need for wooden platform construction. All aluminum construction. Two adjustable frames fit all sizes.

Wall Hanging Bracket Kit (Up-Flow 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.

FEATURES

OPTIONAL ELECTRIC HEAT

- 8 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 blower coil unit.

Circuit Breaker Models

ECB29-5CB, -6CB, -8CB, -9CB, -10CB, -12.5CB, -15CB, -20CB, -25CB and -30CB (208/240v-1ph) and ECB29-15CB, -20CB and -25CB (208/240v-3ph) 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.

EvenHeater™ Models

Electric heat is staged to provide supplemental heat to meet desired comfort levels.
 EHC control board stages the heat on and off based on the demand of the provided (field installed) discharge air sensor..
 Temperature set point (85, 100, 115 or 130°F) is selected by use of a jumper pin on the EHC control board.
 ECB29EH-9CB, -12.5CB, -15CB and -20CB heaters are equipped with circuit breakers for overload and short circuit protection.
 Factory provided and field mounted in 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.

OPTIONS

Circuit Breaker Cover Kit

Flexible plastic cover protects circuit breaker. Recommended in areas with high humidity 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, prepunched mounting holes, electrical inlet knockouts, and terminal strip.
 Removeable cover provides easy access.
 Dimensions (H x W x D) - 7 x 7 x 4 in.

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 down-flow position with electric heat require optional down-flow additive base.

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

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

SPECIFICATIONS

General Data		Model Number	CB30M-21/26	CB30M-31	CB30M-41	CB30M-46	CB30M-51	CB30M-65
Nominal tonnage			1.5 - 2	2.5	3	3.5	4	5
Refrigerant			R-22	R-22	R-22	R-22	R-22	R-22
Connections in.	Suction (vapor) line (o.d.) - sweat		5/8	3/4	3/4	7/8	7/8	1-1/8
	Liquid line (o.d.) - sweat		3/8	3/8	3/8	3/8	3/8	3/8
	Condensate - fpt		(2) 3/4	(2) 3/4	(2) 3/4	(2) 3/4	(2) 3/4	(2) 3/4
Evaporator Coil	Net face area - ft. ²		3.56	4.44	5.0	5.0	7.22	7.22
	Tube outside diameter - in.		3/8	3/8	3/8	3/8	3/8	3/8
	Number of rows		3	3	3	3	3	3
	Fins per inch		12	12	12	12	12	12
Blower	Wheel nom. diameter x width - in.		10 x 7	10 x 8	11 x 8	11 x 8	11-1/2 x 9	12 x 9
	Blower motor output - hp		1/5	1/3	1/3	1/3	1/3	1/2
¹ Filters	Size of filter - in.		15 x 20 x 1	20 x 20 x 1	20 x 20 x 1	20 x 20 x 1	20 x 24 x 1	20 x 24 x 1
Shipping Data -1 package - lbs.			136	157	177	181	206	206

ELECTRICAL DATA

Voltage - 1phase - 60hz	208/230V	208/230V	208/230V	208/230V	208/230V	208/230V	208/230V
Voltage - 3phase - 60hz	---	---	² 460V	---	² 460V	² 460V	² 460V
³ Maximum overcurrent protection (unit only) all voltages	15	15	15	15	15	15	15
Minimum circuit ampacity (unit only) - 208/230V	2	2	2	3	3	5	5
460V	---	---	2	---	2	3	3

OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

Circuit Breaker Cover Kit	93M85	93M85	93M85	93M85	93M85	93M85
Down-Flow Additive Base	34J72	44K15	44K15	44K15	44K15	44K15
Down-Flow Conversion Kit	83M57	83M57	83M57	83M57	83M57	83M57
Electric Heat - See Electric Heat Data tables	2.5 to 20 kW			5 to 30 kW		
Horizontal Support Frame Kit	56J18	56J18	56J18	56J18	56J18	56J18
Side Return Unit Stand (Up-Flow)	45K31	45K32	45K32	45K32	45K32	45K32
Single Point Power Source Control Box	21H39	21H39	21H39	21H39	21H39	21H39
Step-Down Transformer Kit (575V applications)	---	---	66K90	---	66K90	66K90
Wall Hanging Bracket Kit (Up-Flow Only)	45K30	45K30	45K30	45K30	45K30	45K30

¹ Disposable frame type filter.

² Blower motor is 460V - 1 phase. Optional electric heat is 460V - 3 phase.

³ HACR type circuit breaker or fuse.

REPLACEMENT CIRCUIT BREAKERS

Voltage	Description	Catalog No.
208/240V - 1 Phase	25 amp, 2 pole	41K13
	30 amp, 2 pole	17K70
	35 amp, 2 pole	72K07
	40 amp, 2 pole	49K14
	45 amp, 2 pole	17K71
	50 amp, 2 pole	41K12
	60 amp, 2 pole	17K72
208/240V - 3 Phase	30 amp, 3 pole	18M85
	40 amp, 3 pole	41K16
	45 amp, 3 pole	18M86
	50 amp, 3 pole	41K15
	60 amp, 3 pole	41K17

BLOWER DATA

CB30M-21/26 BLOWER PERFORMANCE (208/230V)

External Static Pressure - in. w.g.	Air Volume & Motor Watts at Specific Blower Taps					
	High		Medium		Low	
	cfm	Watts	cfm	Watts	cfm	Watts
.00	1030	365	895	300	700	245
.05	1015	360	890	295	695	245
.10	1000	355	875	290	690	240
.15	980	345	860	285	680	235
.20	960	340	845	280	665	230
.25	935	335	825	275	650	220
.30	910	325	800	265	635	215
.40	850	310	745	250	590	205
.50	780	295	685	235	535	190
.60	705	280	605	220	470	175
.70	615	265	520	200	395	165
.75	565	255	475	195	350	155

NOTE - All air data is measured external to unit with air filter in place with bottom return air. Electric heaters have no appreciable air resistance.

CB30M-31 BLOWER PERFORMANCE (208/230V)

External Static Pressure - in. w.g.	Air Volume & Motor Watts at Specific Blower Taps					
	High		Medium		Low	
	cfm	Watts	cfm	Watts	cfm	Watts
.00	1290	385	1175	335	1045	315
.05	1295	380	1190	330	1075	310
.10	1290	375	1190	325	1085	300
.15	1265	370	1175	320	1085	295
.20	1230	360	1145	310	1065	285
.25	1180	350	1105	295	1030	270
.30	1115	335	1045	280	980	255
.40	945	305	890	250	830	220
.50	720	275	675	215	615	190
.60	440	240	405	185	335	160

CB30M-41 BLOWER PERFORMANCE (208/230V)

External Static Pressure - in. w.g.	Air Volume & Motor Watts at Specific Blower Taps					
	High		Medium		Low	
	cfm	Watts	cfm	Watts	cfm	Watts
.00	1525	505	1120	390	915	335
.05	1520	495	1150	385	965	330
.10	1510	480	1170	380	1005	325
.15	1495	470	1180	375	1035	320
.20	1475	455	1190	370	1055	320
.25	1450	440	1185	360	1060	310
.30	1415	430	1175	350	1050	300
.40	1335	400	1135	325	1005	290
.50	1230	375	1060	300	915	255
.60	1100	345	960	280	775	230
.70	950	320	830	255	590	205
.75	870	305	750	245	485	195

NOTE - All air data is measured external to unit with air filter in place with bottom return air. Electric heaters have no appreciable air resistance.

CB30M-41 BLOWER PERFORMANCE (460V-1ph)

External Static Pressure - in. w.g.	Air Volume & Motor Watts at Specific Blower Taps			
	High		Low	
	cfm	Watts	cfm	Watts
.00	1525	505	1120	390
.05	1520	495	1150	385
.10	1510	480	1170	380
.15	1495	470	1180	375
.20	1475	455	1190	370
.25	1450	440	1185	360
.30	1415	430	1175	350
.40	1335	400	1135	325
.50	1230	375	1060	300
.60	1100	345	960	280
.70	950	320	830	255
.75	870	305	750	245

CB30M-46 BLOWER PERFORMANCE (208/230V)

External Static Pressure - in. w.g.	Air Volume & Motor Watts at Specific Blower Taps					
	High		Medium		Low	
	cfm	Watts	cfm	Watts	cfm	Watts
.00	1825	565	1600	455	1325	370
.05	1790	555	1585	455	1335	370
.10	1750	540	1565	450	1335	370
.15	1710	530	1540	440	1330	365
.20	1660	520	1505	435	1320	360
.25	1610	505	1470	425	1300	355
.30	1555	495	1425	415	1270	350
.40	1430	465	1320	390	1195	330
.50	1290	440	1195	365	1090	310
.60	1135	415	1050	335	955	285
.70	965	385	875	310	795	260
.75	875	370	780	295	700	250

NOTE - All air data is measured external to unit with air filter in place with bottom return air. Electric heaters have no appreciable air resistance.

BLOWER DATA

CB30M-51 BLOWER PERFORMANCE (208/230V)

External Static Pressure - in. w.g.	Air Volume & Motor Watts at Specific Blower Taps					
	High		Medium		Low	
	cfm	Watts	cfm	Watts	cfm	Watts
.00	1910	590	1785	520	1475	430
.05	1895	585	1770	515	1480	430
.10	1870	580	1750	510	1475	425
.15	1840	570	1720	500	1465	420
.20	1800	565	1685	490	1445	410
.25	1755	550	1645	480	1415	405
.30	1700	540	1600	465	1380	395
.40	1580	515	1485	440	1290	370
.50	1425	485	1350	410	1170	345
.60	1250	450	1190	380	1020	320
.70	1045	415	1000	350	840	295
.75	930	400	900	335	740	280

NOTE - All air data is measured external to unit with air filter in place with bottom return air. Electric heaters have no appreciable air resistance.

CB30M-51 BLOWER PERFORMANCE (460V - 1 ph)

External Static Pressure in. w.g.	Air Volume & Motor Watts at Specific Blower Taps			
	High		Low	
	cfm	Watts	cfm	Watts
.00	1870	610	1775	530
.05	1875	610	1775	530
.10	1870	590	1765	515
.15	1850	585	1750	510
.20	1825	575	1720	500
.25	1790	560	1685	490
.30	1745	545	1645	480
.40	1625	505	1530	450
.50	1465	470	1380	420
.60	1270	425	1195	385
.70	1030	385	975	350
.80	755	340	720	320

CB30M-65 BLOWER PERFORMANCE (208/230V)

External Static Pressure - in. w.g.	Air Volume & Motor Watts at Specific Blower Taps					
	High		Medium		Low	
	cfm	Watts	cfm	Watts	cfm	Watts
.00	2115	780	2025	670	1775	585
.05	2100	770	2010	665	1775	590
.10	2085	765	1995	655	1770	580
.15	2060	750	1975	645	1760	570
.20	2030	740	1950	635	1745	560
.25	2000	730	1915	625	1725	550
.30	1960	715	1880	610	1695	535
.40	1870	685	1795	580	1630	505
.50	1755	655	1690	545	1540	475
.60	1620	625	1560	515	1425	440
.70	1465	590	1415	480	1295	410
.80	1290	560	1250	445	1140	375
.85	1195	545	1160	425	1050	360

NOTE - All air data is measured external to unit with air filter in place with bottom return air. Electric heaters have no appreciable air resistance.

CB30M-65 BLOWER PERFORMANCE (460V - 1 ph)

External Static Pressure in. w.g.	Air Volume & Motor Watts at Specific Blower Taps			
	High		Low	
	cfm	Watts	cfm	Watts
.00	2140	795	1965	710
.05	2110	780	1950	700
.10	2080	765	1930	685
.15	2045	755	1910	675
.20	2005	740	1880	660
.25	1965	725	1850	645
.30	1920	710	1815	630
.40	1820	680	1735	600
.50	1710	650	1635	570
.60	1585	615	1520	540
.70	1450	585	1390	505
.80	1305	550	1245	475
.85	1225	535	1165	460

CB30M-21/26 AND CB30M-31 - ELECTRIC HEAT DATA

SINGLE PHASE ELECTRIC HEAT					CB30M-21/26			CB30M-31					
Model Number	No. of Stages	Input			² Blower Motor Full Load Amps	³ Minimum Circuit Ampacity	⁵ Maximum Overcurrent Protection	² Blower Motor Full Load Amps	³ Minimum Circuit Ampacity		⁵ Maximum Overcurrent Protection		
		Volts	kW	¹ Btuh					1	2	1	2	
2.5 kW 4 lbs.	ECB29-2.5 (28K30)	1	208	1.9	6,400	1.5	13	15	Not Available				
			220	2.1	7,200	1.5	15	15					
			230	2.3	7,800	1.5	15	15					
			240	2.5	8,500	1.5	15	15					
5 kW 4 lbs.	ECB29-5 (28K31) Terminal Block ECB29-5CB (28K32) 30A Circuit breaker	1	208	3.8	12,800	1.5	24	4 25	1.73	25	---	4 25	---
			220	4.2	14,300	1.5	28	30	1.73	28	---	30	---
			230	4.6	15,700	1.5	28	30	1.73	28	---	30	---
			240	5.0	17,100	1.5	28	30	1.73	28	---	30	---
6 kW 4 lbs.	ECB29-6 (47L22) Terminal Block ECB29-6CB (47L23) 35A Circuit breaker	1	208	4.5	15,400	1.5	29	4 30	1.73	30	---	4 30	---
			220	5.0	17,100	1.5	33	35	1.73	33	---	35	---
			230	5.5	18,800	1.5	33	35	1.73	33	---	35	---
			240	6.0	20,500	1.5	33	35	1.73	33	---	35	---
8 kW 5 lbs.	ECB29-8 (28K33) Terminal Block ECB29-8CB (28K34) 45A Circuit breaker	1	208	6.0	20,500	1.5	38	4 40	1.73	38	---	4 40	---
			220	6.7	22,900	1.5	44	45	1.73	44	---	45	---
			230	7.3	25,100	1.5	44	45	1.73	44	---	45	---
			240	8.0	27,300	1.5	44	45	1.73	44	---	45	---
9 kW 5 lbs.	ECB29-9CB (10L11) 50A Circuit breaker ECB29EH-9CB (91K67) 50A Circuit breaker	2	208	6.8	23,100	1.5	42	4 45	1.73	43	---	4 45	---
			220	7.6	25,800	1.5	49	50	1.73	49	---	50	---
			230	8.3	28,200	1.5	49	50	1.73	49	---	50	---
			240	9.0	30,700	1.5	49	50	1.73	49	---	50	---
10 kW 6 lbs.	ECB29-10 (28K35) Terminal Block ECB29-10CB (28K36) 60A Circuit breaker	2	208	7.5	25,600	1.5	47	4 50	1.73	47	---	4 50	---
			220	8.4	28,700	1.5	54	60	1.73	54	---	60	---
			230	9.2	31,400	1.5	54	60	1.73	54	---	60	---
			240	10.0	34,100	1.5	54	60	1.73	54	---	60	---
12.5 kW 10 lbs.	ECB29-12.5CB (28K37) (1) 25A & (1) 50A Circuit breaker ECB29EH-12.5CB (91K68) (1) 25A & (1) 50A Circuit breaker	2	208	7.5	25,600	Not Available		1.73	21	31	25	4 45	
			220	8.4	28,700			1.73	24	35	25	50	
			230	9.2	31,400			1.73	24	35	25	50	
			240	10.0	34,100			1.73	24	35	25	50	
15 kW 12 lbs.	ECB29-15CB (28K38) (1) 30A & (1) 60A Circuit breaker ECB29EH-15CB (91K69) (1) 30A & (1) 60A Circuit breaker	2	208	11.3	38,400	Not Available		1.73	24	37	4 25	4 50	
			220	12.6	43,000			1.73	28	42	30	60	
			230	13.8	47,000			1.73	28	42	30	60	
			240	15.0	51,200			1.73	28	42	30	60	

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

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

² Amps shown are for blower motor only.

³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F (75°C).

⁴ **Bold text indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size noted. See Table on Page 5.**

⁵ HACR type circuit breaker or fuse.

CB30M-41 AND CB30M-46 ELECTRIC HEAT DATA

SINGLE PHASE ELECTRIC HEAT						CB30M-41				CB30M-46					
Model Number	No. of Stages	Input			² Blower Motor Full Load Amps	³ Minimum Circuit Ampacity		⁵ Maximum Overcurrent Protection		² Blower Motor Full Load Amps	³ Minimum Circuit Ampacity		⁵ Maximum Overcurrent Protection		
		Volts	kW	1 Btuh		Circuit		Circuit			Circuit		Circuit		
						1	2	1	2		1	2	1	2	
5 kW 4 lbs.	ECB29-5 (28K31) Terminal Block	1	208	3.8	12,800	1.72	25	---	4 25	---	2.4	26	---	30	---
			220	4.2	14,300	1.72	28	---	30	---	2.4	29	---	30	---
			230	4.6	15,700	1.72	28	---	30	---	2.4	29	---	30	---
			240	5.0	17,100	1.72	28	---	30	---	2.4	29	---	30	---
6 kW 4 lbs.	ECB29-6 (47L22) Terminal Block ECB29-6CB (47L23) 35A Circuit breaker	1	208	4.5	15,400	1.72	30	---	4 30	---	2.4	30	---	4 30	---
			220	5.0	17,100	1.72	33	---	35	---	2.4	34	---	35	---
			230	5.5	18,800	1.72	33	---	35	---	2.4	34	---	35	---
			240	6.0	20,500	1.72	33	---	35	---	2.4	34	---	35	---
8 kW 5 lbs.	ECB29-8 (28K33) Terminal Block ECB29-8CB (28K34) 45A Circuit breaker	1	208	6.0	20,500	1.72	38	---	4 40	---	2.4	40	---	4 40	---
			220	6.7	22,900	1.72	44	---	45	---	2.4	45	---	45	---
			230	7.3	25,100	1.72	44	---	45	---	2.4	45	---	45	---
			240	8.0	27,300	1.72	44	---	45	---	2.4	45	---	45	---
9 kW 5 lbs.	ECB29-9CB (10L11) 50A Circuit breaker ECB29EH-9CB (91K67) 50A Circuit breaker	2	208	6.8	25,600	1.72	43	---	4 45	---	2.4	44	---	4 45	---
			220	7.6	28,700	1.72	49	---	50	---	2.4	50	---	50	---
			230	8.3	31,400	1.72	49	---	50	---	2.4	50	---	50	---
			240	9.0	34,100	1.72	49	---	50	---	2.4	50	---	50	---
10 kW 6 lbs.	ECB29-10 (28K35) Terminal Block ECB29-10CB (28K36) 60A Circuit breaker	2	208	7.5	25,600	1.72	47	---	4 50	---	2.4	48	---	4 50	---
			220	8.4	28,700	1.72	54	---	60	---	2.4	55	---	60	---
			230	9.2	31,400	1.72	54	---	60	---	2.4	55	---	60	---
			240	10.0	34,100	1.72	54	---	60	---	2.4	55	---	60	---
12.5 kW 10 lbs.	ECB29-12.5CB (28K37) (1) 25A & (1) 50A Circuit breaker ECB29EH-12.5CB (91K68) (1) 25A & (1) 50A Circuit breaker	2	208	9.4	32,000	1.72	21	31	25	4 45	2.4	22	31	25	4 45
			220	10.5	35,800	1.72	24	35	25	50	2.4	25	35	25	50
			230	11.5	39,200	1.72	24	35	25	50	2.4	25	35	25	50
			240	12.5	42,600	1.72	24	35	25	50	2.4	25	35	25	50
15 kW 12 lbs.	ECB29-15CB (28K38) (1) 30A & (1) 60A Circuit Breaker ECB29EH-15CB (91K69) (1) 30A & (1) 60A Circuit Breaker	2	208	11.3	38,400	1.72	24	37	4 25	4 50	2.4	26	37	30	4 50
			220	12.6	43,000	1.72	28	42	30	60	2.4	29	42	30	60
			230	13.8	47,000	1.72	28	42	30	60	2.4	29	42	30	60
			240	15.0	51,200	1.72	28	42	30	60	2.4	29	42	30	60
20 kW 19 lbs.	ECB29-20CB (11L31) (1) 50A & (1) 60A Circuit Breaker ECB29EH-20CB (91K70) (1) 50A & (1) 60A Circuit Breaker	2	208	15.0	51,200	1.72	44	41	4 45	60	2.4	45	41	4 45	60
			220	16.8	57,300	1.72	49	46	50	60	2.4	50	46	50	60
			230	18.4	62,700	1.72	49	46	50	60	2.4	50	46	50	60
			240	20.0	68,200	1.72	49	46	50	60	2.4	50	46	50	60
THREE PHASE ELECTRIC HEAT						CB30M-41				CB30M-46					
8 kW 5 lbs.	ECB29-8 (28K42) Terminal Block	1	208	6.0	20,500	1.72	23	---	25	---	2.4	24	---	25	---
			220	6.7	22,900	1.72	26	---	30	---	2.4	27	---	30	---
			230	7.3	25,100	1.72	26	---	30	---	2.4	27	---	30	---
			240	8.0	27,300	1.72	26	---	30	---	2.4	27	---	30	---
10 kW 6 lbs.	ECB29-10 (28K43) Terminal Block	1	208	7.5	25,600	1.72	28	---	30	---	2.4	29	---	30	---
			220	8.4	28,700	1.72	32	---	35	---	2.4	33	---	35	---
			230	9.2	31,400	1.72	32	---	35	---	2.4	33	---	35	---
			240	10.0	34,100	1.72	32	---	35	---	2.4	33	---	35	---
15 kW 12 lbs.	ECB29-10 (28K47) (3) 20A Fuses	1	440	8.4	28,700	1.1	16	---	20	---	Not Available				
			460	9.2	31,400	1.1	16	---	20	---	Not Available				
			480	10.0	34,100	1.1	16	---	20	---	Not Available				
			208	11.3	38,400	1.72	41	---	4 45	---	2.4	42	---	4 45	---
20 kW 19 lbs.	ECB29-15CB (28K44) (1) 50A Circuit breaker	1	220	12.6	43,000	1.72	47	---	50	---	2.4	48	---	50	---
			230	13.5	47,000	1.72	47	---	50	---	2.4	48	---	50	---
			240	15.0	51,200	1.72	47	---	50	---	2.4	48	---	50	---
			440	12.6	43,000	1.1	24	---	30	---	Not Available				
20 kW 19 lbs.	ECB29-15 (28K48) (3) 25A Fuses	1	460	13.8	47,000	1.1	24	---	30	---	Not Available				
			480	15.0	51,200	1.1	24	---	30	---	Not Available				
			208	15.0	51,200	1.72	28	21	4 30	4 30	2.4	29	21	4 30	4 30
			220	16.8	57,300	1.72	32	24	35	35	2.4	33	24	35	35
230	18.4	62,700	1.72	32	24	35	35	2.4	33	24	35	35			
240	20.0	68,200	1.72	32	24	35	35	2.4	33	24	35	35			

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 (75°C).

⁴ **Bold text indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size noted. See Table on Page 5.**

⁵ HACR type circuit breaker or fuse.

CB30M-51 AND CB30M-65 ELECTRIC HEAT DATA

SINGLE PHASE ELECTRIC HEAT

SINGLE PHASE ELECTRIC HEAT					CB30M-51						CB30M-65												
Model Number	No. of Stages	Input			² Blower Motor Full Load Amps	³ Minimum Circuit Ampacity			⁵ Maximum Overcurrent Protection			² Blower Motor Full Load Amps	³ Minimum Circuit Ampacity			⁵ Maximum Overcurrent Protection							
		Volts	kW	¹ Btuh		Circuit			Circuit				Circuit										
						1	2	3	1	2	3		1	2	3	1	2	3					
5 kW 4 lbs.	ECB29-5 (28K31) Terminal Block ECB29-5CB (28K32) 30A Circuit breaker	1	208	3.8	12,800	2.4	26	---	---	---	30	---	---	---	3.9	27	---	---	---	30	---	---	---
			220	4.2	14,300	2.4	29	---	---	---	30	---	---	---	3.9	31	---	---	---	35	---	---	---
			230	4.6	15,700	2.4	29	---	---	---	30	---	---	---	3.9	31	---	---	---	35	---	---	---
			240	5.0	17,100	2.4	29	---	---	---	30	---	---	---	3.9	31	---	---	---	35	---	---	---
6 kW 4 lbs.	ECB29-6 (47L22) Terminal Block ECB29-6CB (47L23) 35A Circuit breaker	1	208	4.5	15,400	2.4	30	---	---	---	4 30	---	---	---	3.9	31	---	---	---	35	---	---	---
			220	5.0	17,100	2.4	34	---	---	---	35	---	---	---	3.9	36	---	---	---	40	---	---	---
			230	5.5	18,800	2.4	34	---	---	---	35	---	---	---	3.9	36	---	---	---	40	---	---	---
			240	6.0	20,500	2.4	34	---	---	---	35	---	---	---	3.9	36	---	---	---	40	---	---	---
8 kW 5 lbs.	ECB29-8 (28K33) Terminal Block ECB29-8CB (28K34) 45A Circuit breaker	1	208	6.0	20,500	2.4	40	---	---	---	4 40	---	---	---	3.9	40	---	---	---	4 40	---	---	---
			220	6.7	22,900	2.4	45	---	---	---	45	---	---	---	3.9	47	---	---	---	50	---	---	---
			230	7.3	25,100	2.4	45	---	---	---	45	---	---	---	3.9	47	---	---	---	50	---	---	---
			240	8.0	27,300	2.4	45	---	---	---	45	---	---	---	3.9	47	---	---	---	50	---	---	---
9 kW 5 lbs.	ECB29-9CB (10L11) 50A Circuit breaker ECB29EH-9CB (91K67) 50A Circuit breaker	2	208	6.8	25,600	2.4	44	---	---	---	4 45	---	---	---	3.9	45	---	---	---	4 45	---	---	---
			220	7.6	28,700	2.4	50	---	---	---	50	---	---	---	3.9	52	---	---	---	60	---	---	---
			230	8.3	31,400	2.4	50	---	---	---	50	---	---	---	3.9	52	---	---	---	60	---	---	---
			240	9.0	34,100	2.4	50	---	---	---	50	---	---	---	3.9	52	---	---	---	60	---	---	---
10 kW 6 lbs.	ECB29-10 (28K35) Terminal Block ECB29-10CB (28K36) 60A Circuit breaker	2	208	7.5	25,600	2.4	48	---	---	---	4 50	---	---	---	3.9	51	---	---	---	60	---	---	---
			220	8.4	28,700	2.4	55	---	---	---	60	---	---	---	3.9	57	---	---	---	60	---	---	---
			230	9.2	31,400	2.4	55	---	---	---	60	---	---	---	3.9	57	---	---	---	60	---	---	---
			240	10.0	34,100	2.4	55	---	---	---	60	---	---	---	3.9	57	---	---	---	60	---	---	---
12.5 kW 10 lbs.	ECB29-12.5CB (28K37) (1) 25A & (1) 50A Circuit breaker ECB29EH-12.5CB (91K68) (1) 25A & (1) 50A Circuit breaker	2	208	9.4	32,000	2.4	22	31	---	25	4 45	---	---	3.9	23	31	---	25	4 45	---	---	---	---
			220	10.5	35,800	2.4	25	35	---	25	50	---	---	3.9	27	35	---	30	50	---	---	---	
			230	11.5	39,200	2.4	25	35	---	25	50	---	---	3.9	27	35	---	30	50	---	---	---	
			240	12.5	42,600	2.4	25	35	---	25	50	---	---	3.9	27	35	---	30	50	---	---	---	
15 kW 12 lbs.	ECB29-15CB (28K38) (1) 30A & (1) 60A Circuit breaker ECB29EH-15CB (91K69) (1) 30A & (1) 60A Circuit breaker	2	208	11.3	38,400	2.4	26	37	---	30	4 50	---	---	3.9	27	37	---	30	4 50	---	---	---	---
			220	12.6	43,000	2.4	29	42	---	30	60	---	---	3.9	31	42	---	35	60	---	---	---	
			230	13.5	47,000	2.4	29	42	---	30	60	---	---	3.9	31	42	---	35	60	---	---	---	
			240	15.0	51,200	2.4	29	42	---	30	60	---	---	3.9	31	42	---	35	60	---	---	---	
20 kW 19 lbs.	ECB29-20CB (11L31) (1) 50A & (1) 60A Circuit breaker ECB29EH-20CB (91K70) (1) 50A & (1) 60A Circuit breaker	2	208	15.0	51,200	2.4	45	41	---	4 45	60	---	---	3.9	46	41	---	50	60	---	---	---	
			220	16.8	57,300	2.4	50	46	---	50	60	---	---	3.9	52	46	---	60	60	---	---	---	
			230	18.4	62,700	2.4	50	46	---	50	60	---	---	3.9	52	46	---	60	60	---	---	---	
			240	20.0	68,200	2.4	50	46	---	50	60	---	---	3.9	52	46	---	60	60	---	---	---	
25 kW 19 lbs.	ECB29-25CB (28K40) (3) 50A Circuit breakers	3	208	18.8	64,100	2.4	40	31	31	4 40 4 45 4 45	---	---	---	3.9	42	31	31	4 45 4 45 4 45	---	---	---	---	
			220	21.0	71,700	2.4	47	35	35	50	50	50	---	3.9	48	35	35	50	50	50	---	---	
			230	23.0	78,300	2.4	47	35	35	50	50	50	---	3.9	48	35	35	50	50	50	---	---	
			240	25.0	85,300	2.4	47	35	35	50	50	50	---	3.9	48	35	35	50	50	50	---	---	
30 kW 19 lbs.	ECB29-30CB (28K41) (3) 60A Circuit breakers	3	208	22.5	76,900	Not Available						3.9	51	37	37	60	4 50 4 50	---	---	---			
			220	25.2	86,000							3.9	56	42	42	60	60	60					
			230	27.5	94,000							3.9	56	42	42	60	60	60					
			240	30.0	102,400							3.9	56	42	42	60	60	60					

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

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

² Amps shown are for blower motor only.

³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F (75°C).

⁴ **Bold text indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size noted. See Table on Page 5.**

⁵ HACR type circuit breaker or fuse.

CB30M-51 AND CB30M-65 ELECTRIC HEAT DATA

THREE PHASE ELECTRIC HEAT						CB30M-51					CB30M-65				
Model Number	No. of Stages	Input			² Blower Motor Full Load Amps	³ Minimum Circuit Ampacity Circuit		⁷ Maximum Overcurrent Protection Circuit		² Blower Motor Full Load Amps	³ Minimum Circuit Ampacity Circuit		⁷ Maximum Overcurrent Protection Circuit		
		Volts	kW	1 Btuh		1	2	1	2		1	2	1	2	
8 kW 5 lbs. ECB29-8 (28K42) Terminal block	1	208	6.0	20,500	2.4	24	---	25	---	3.9	25	---	25	---	
		220	6.7	22,900	2.4	27	---	30	---	3.9	29	---	30	---	
		230	7.3	25,100	2.4	27	---	30	---	3.9	29	---	30	---	
		240	8.0	27,300	2.4	27	---	30	---	3.9	29	---	30	---	
10 kW 6 lbs. ECB29-10 (28K43) Terminal Block	1	208	7.5	25,600	2.4	29	---	30	---	3.9	30	---	30	---	
		220	8.4	28,700	2.4	33	---	35	---	3.9	35	---	35	---	
		230	9.2	31,400	2.4	33	---	35	---	3.9	35	---	35	---	
		240	10.0	34,100	2.4	33	---	35	---	3.9	35	---	35	---	
	ECB29-10 (28K47) (3) 20A Fuses	1	440	8.4	28,700	1.3	17	---	20	---	1.9	17	---	20	---
			460	9.2	31,400	1.3	17	---	20	---	1.9	17	---	20	---
			480	10.0	34,100	1.3	17	---	20	---	1.9	17	---	20	---
15 kW 12 lbs. ECB29-15CB (28K44) 50A Circuit breaker	1	208	11.3	38,400	2.4	42	---	4 45	---	3.9	43	---	4 45	---	
		220	12.6	43,000	2.4	48	---	50	---	3.9	50	---	50	---	
		230	13.5	47,000	2.4	48	---	50	---	3.9	50	---	50	---	
		240	15.0	51,200	2.4	48	---	50	---	3.9	50	---	50	---	
	ECB29-15 (28K48) (3) 25A Fuses	1	440	12.6	43,000	1.3	24	---	30	---	1.9	25	---	25	---
			460	13.8	47,000	1.3	24	---	30	---	1.9	25	---	25	---
			480	15.0	51,200	1.3	24	---	30	---	1.9	25	---	25	---
20 kW 19 lbs. ECB29-20CB (28K45) (2) 35A Circuit breaker	2	208	15.0	51,200	2.4	29	21	4 30	4 30	3.9	30	21	4 30	4 30	
		220	16.8	57,300	2.4	33	24	35	35	3.9	35	24	35	35	
		230	18.4	62,700	2.4	33	24	35	35	3.9	35	24	35	35	
		240	20.0	68,200	2.4	33	24	35	35	3.9	35	24	35	35	
	ECB29-20 (28K49) (3) 35A Fuses	1	440	16.8	57,300	1.3	32	---	35	---	1.9	32	---	35	---
			460	18.4	62,700	1.3	32	---	35	---	1.9	32	---	35	---
			480	20.0	68,200	1.3	32	---	35	---	1.9	32	---	35	---
	⁵ ECB29-20 (28K51) (3) 25A Fuses	1	550	16.8	57,300	⁶ 1.3	26	---	30	---	⁶ 1.9	26	---	30	---
			575	18.4	62,700	⁶ 1.3	26	---	30	---	⁶ 1.9	26	---	30	---
			600	20.0	68,200	⁶ 1.3	26	---	30	---	⁶ 1.9	26	---	30	---
25 kW 19 lbs. ECB29-25CB (28K46) (2) 45A Circuit breaker	2	208	18.8	64,100	2.4	35	27	4 40	4 40	3.9	37	27	4 40	4 40	
		220	21.0	71,700	2.4	41	30	45	45	3.9	43	30	45	45	
		230	23.0	78,300	2.4	41	30	45	45	3.9	43	30	45	45	
		240	25.0	85,300	2.4	41	30	45	45	3.9	43	30	45	45	
	ECB29-25 (28K50) (3) 40A Fuses	2	440	21.0	71,700	1.3	39	---	45	---	1.9	40	---	45	---
			460	23.0	78,300	1.3	39	---	45	---	1.9	40	---	45	---
			480	25.0	85,300	1.3	39	---	45	---	1.9	40	---	45	---
	⁵ ECB29-25 (28K52) (3) 35A Fuses	2	550	21.0	71,700	⁶ 1.3	32	---	35	---	⁶ 1.9	32	---	35	---
			575	23.0	78,300	⁶ 1.3	32	---	35	---	⁶ 1.9	32	---	35	---
			600	25.0	85,300	⁶ 1.3	32	---	35	---	⁶ 1.9	32	---	35	---

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 (75°C).

⁴ Bold text indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size noted. See Table on Page 5.

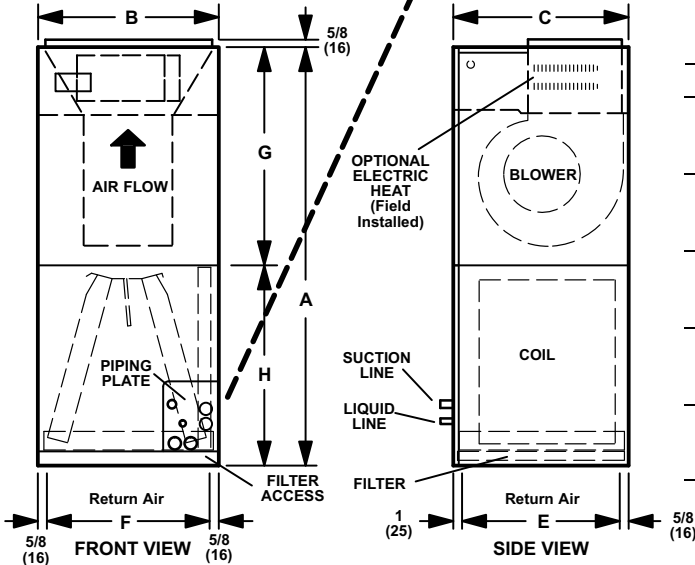
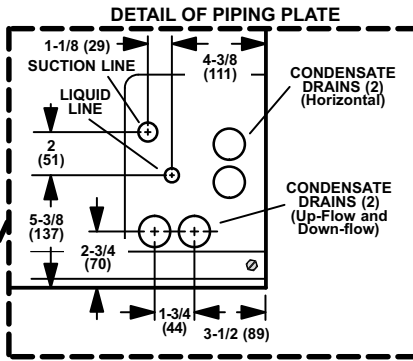
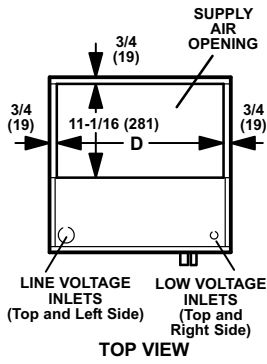
⁵ All 575v electric heaters are used with 460V blower coil units. A 575V to 460V Step-down transformer for the blower coil unit is furnished with all 575V electric heaters.

⁶ Blower motor is rated at 460V.

⁷ HACR type circuit breaker or fuse.

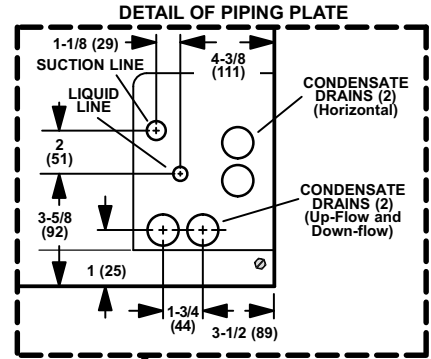
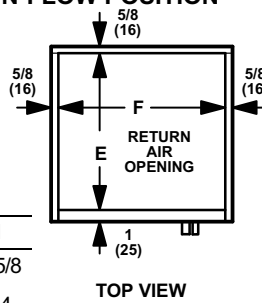
DIMENSIONS - INCHES (MM)

CB30M UP-FLOW POSITION

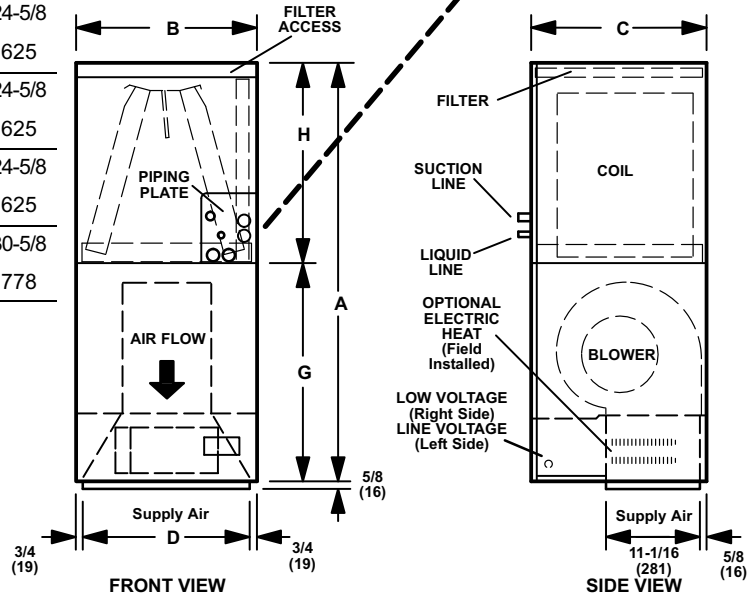


Model No.	A	B	C	D	E	F	G	H
CB30M-21/26	in. 45-1/4	16-1/4	20-5/8	14-3/4	19	15	24-5/8	20-5/8
	mm 1149	413	524	375	483	381	625	524
CB30M-31	in. 49-1/4	21-1/4	20-5/8	19-3/4	19	20	24-5/8	24-5/8
	mm 1251	540	524	502	483	508	625	625
CB30M-41	in. 51	21-1/4	22-5/8	19-3/4	21	20	26-3/8	24-5/8
	mm 1295	540	575	502	533	508	670	625
CB30M-46	in. 52-1/2	21-1/4	22-5/8	19-3/4	21	20	27-7/8	24-5/8
	mm 1334	540	575	502	533	508	708	625
CB30M-51 CB30M-65	in. 58-1/2	21-1/4	24-5/8	19-3/4	23	20	27-7/8	30-5/8
	mm 1486	540	625	502	584	508	708	778

CB30M DOWN-FLOW POSITION

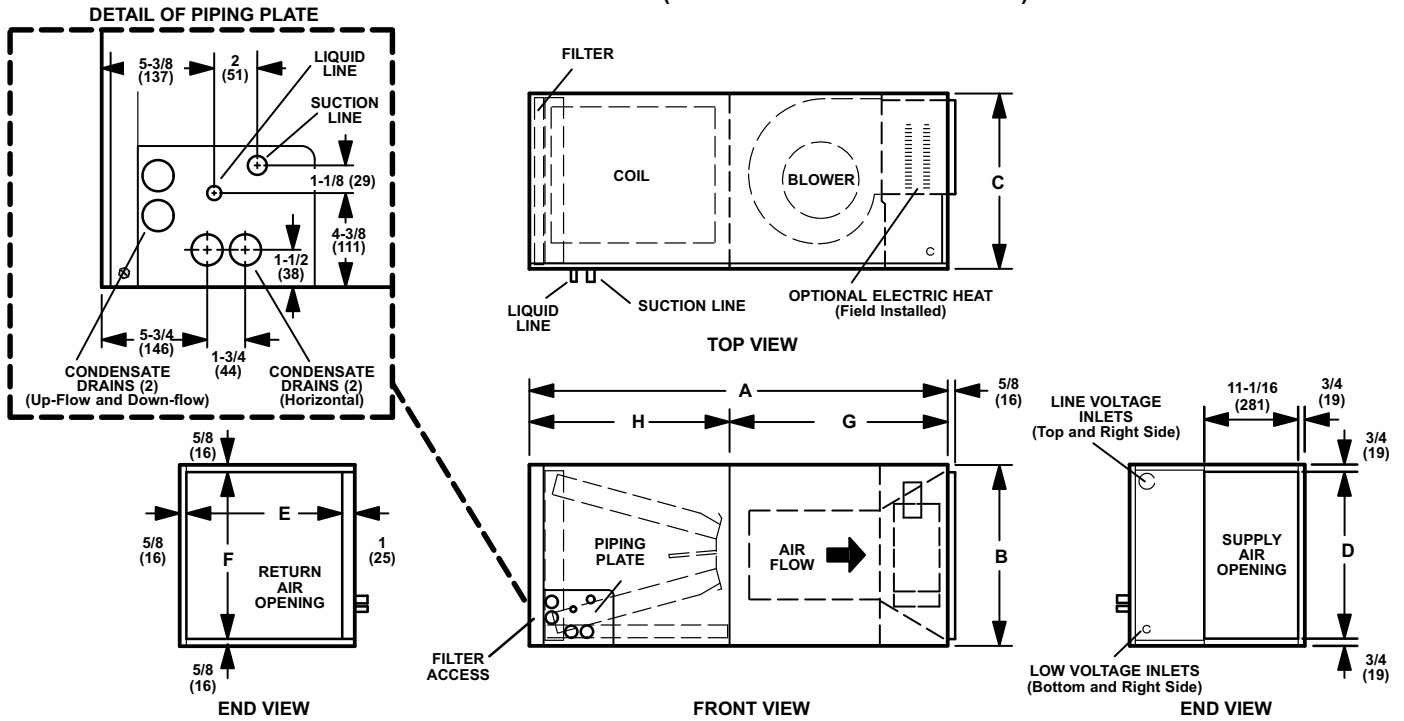


Model No.	A	B	C	D	E	F	G	H
CB30M-21/26	in. 45-1/4	16-1/4	20-5/8	14-3/4	19	15	24-5/8	20-5/8
	mm 1149	413	524	375	483	381	625	524
CB30M-31	in. 49-1/4	21-1/4	20-5/8	19-3/4	19	20	24-5/8	24-5/8
	mm 1251	540	524	502	483	508	625	625
CB30M-41	in. 51	21-1/4	22-5/8	19-3/4	21	20	26-3/8	24-5/8
	mm 1295	540	575	502	533	508	670	625
CB30M-46	in. 52-1/2	21-1/4	22-5/8	19-3/4	21	20	27-7/8	24-5/8
	mm 1334	540	575	502	533	508	708	625
CB30M-51 CB30M-65	in. 58-1/2	21-1/4	24-5/8	19-3/4	23	20	27-7/8	30-5/8
	mm 1486	540	625	502	584	508	708	778

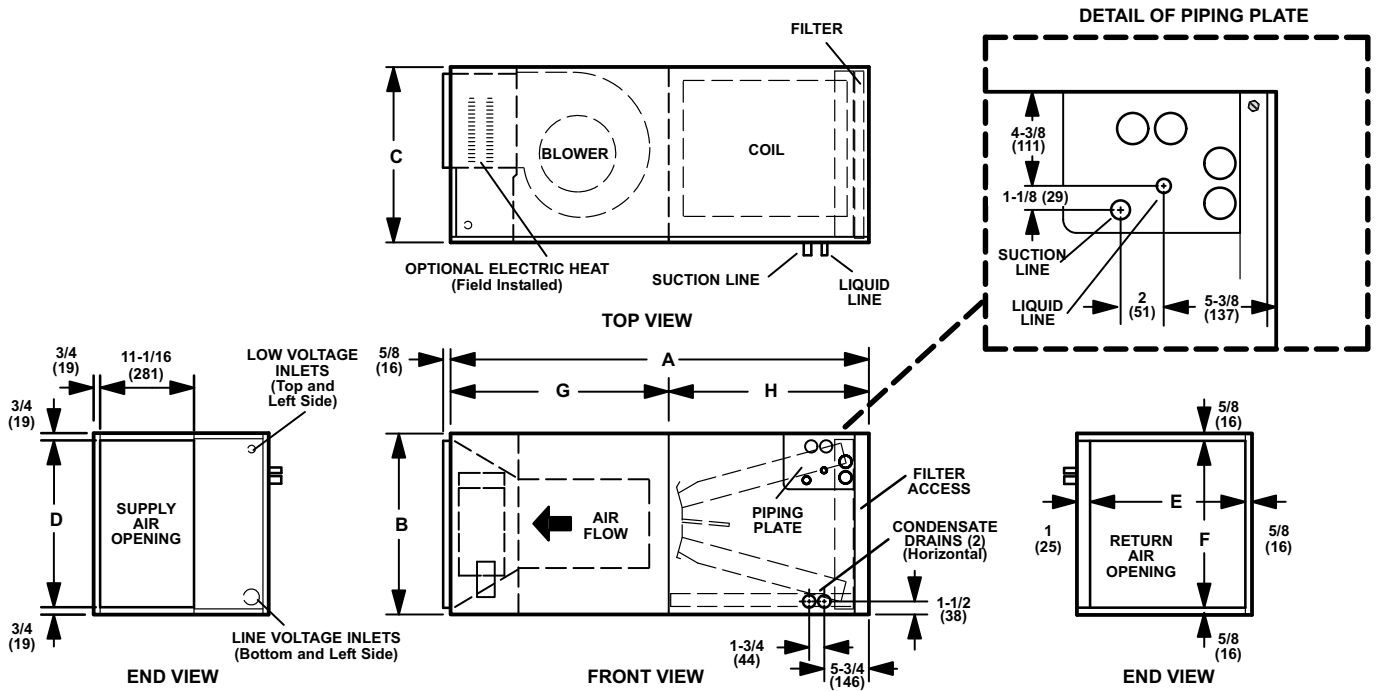


DIMENSIONS - INCHES (MM)

HORIZONTAL POSITION (RIGHT-HAND AIR DISCHARGE)



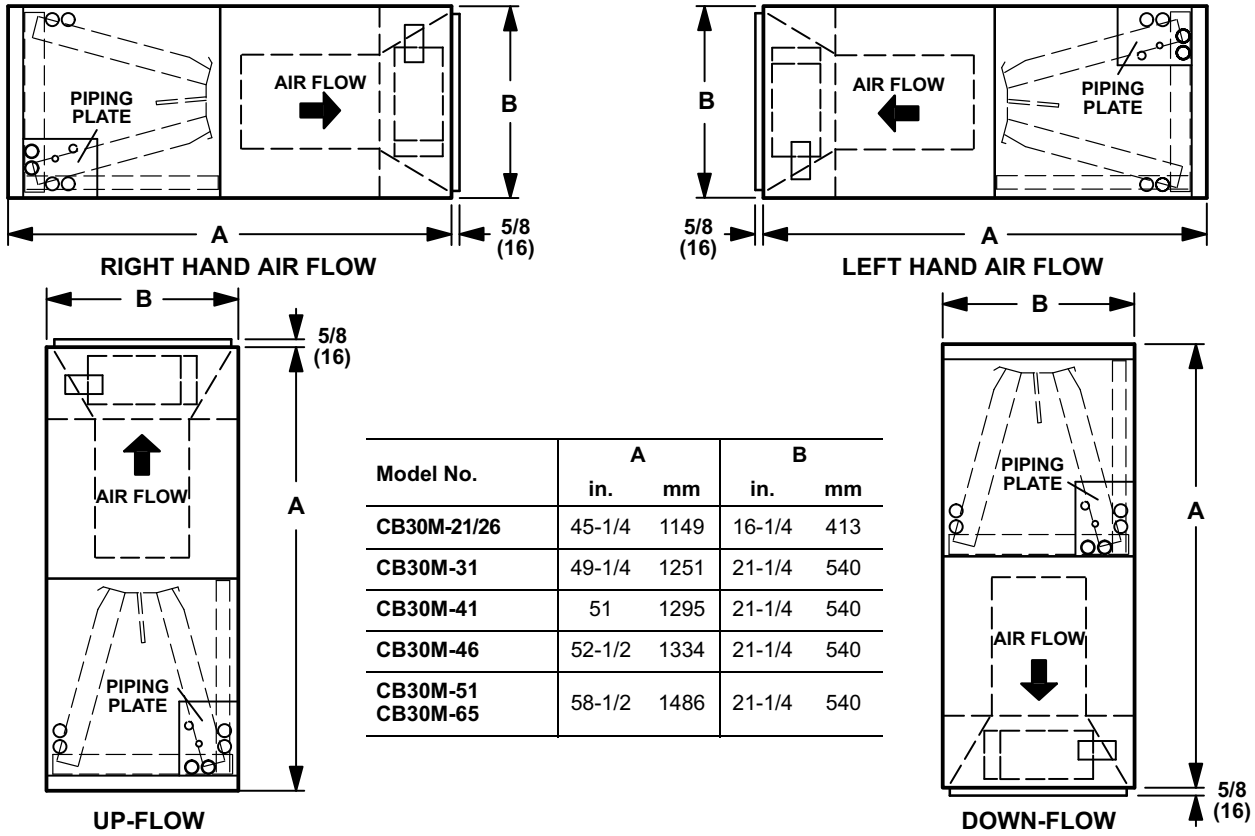
HORIZONTAL POSITION (LEFT-HAND AIR DISCHARGE)



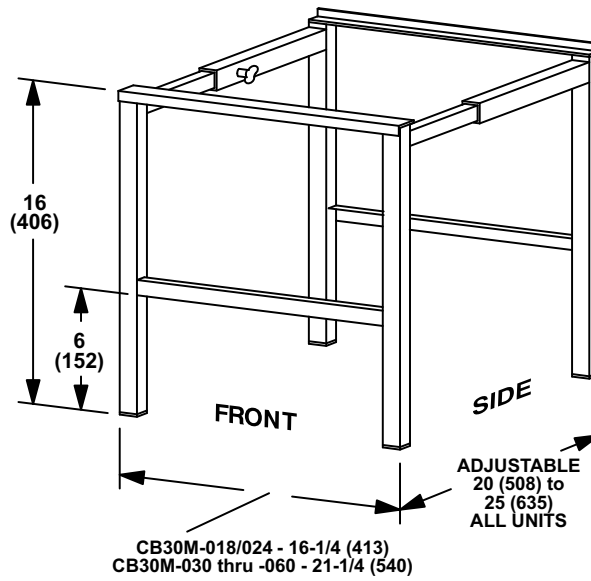
Model No.	A		B		C		D		E		F		G		H	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
CB30M-21/26	45-1/4	1149	16-1/4	413	20-5/8	524	14-3/4	375	19	483	15	381	24-5/8	625	20-5/8	524
CB30M-31	49-1/4	1251	21-1/4	540	20-5/8	524	19-3/4	502	19	483	20	508	24-5/8	625	24-5/8	625
CB30M-41	51	1295	21-1/4	540	22-5/8	575	19-3/4	502	21	533	20	508	26-3/8	670	24-5/8	625
CB30M-46	52-1/2	1334	21-1/4	540	22-5/8	575	19-3/4	502	21	533	20	508	27-7/8	708	24-5/8	625
CB30M-51	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
CB30M-65																

DIMENSIONS - INCHES (MM)

AIR FLOW



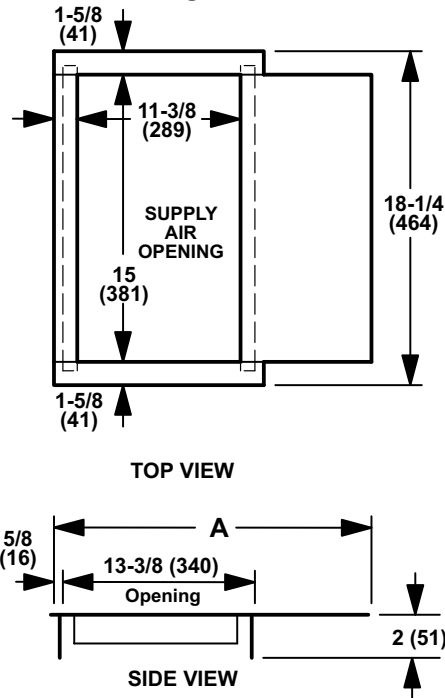
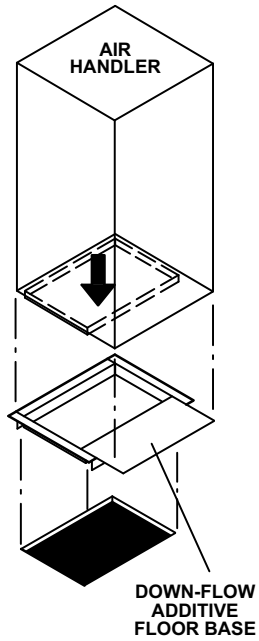
**SIDE RETURN UNIT STAND
(Up-Flow Only)**



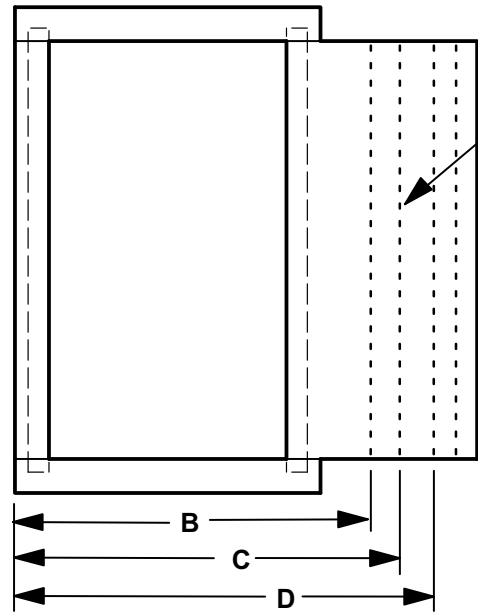
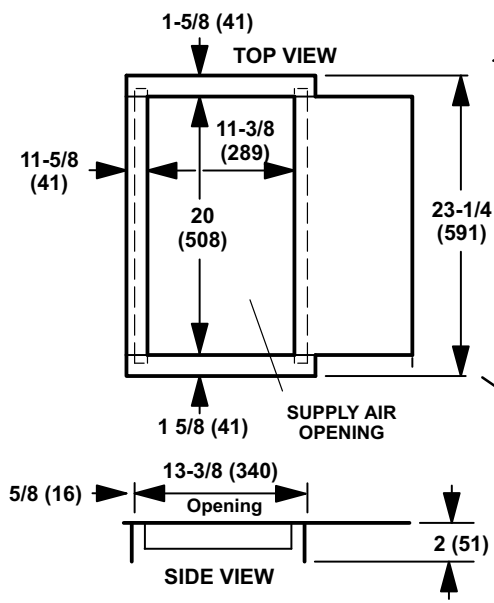
DIMENSIONS - INCHES (MM)

DOWN-FLOW ADDITIVE FLOOR BASES

Catalog No. - 34J72



Catalog No. - 44K15



Break Off Extended Width At Pre-perforated Line To Fit Specific Air Handler Being Installed.

Note: Allow For An Additional Two Inch (51 mm) Overhang For Air Handler Positioning Adjustment.

Model No.	21/26		31		41, 46		51, 65	
	in.	mm	in.	mm	in.	mm	in.	mm
A	22-1/8	562	---	---	---	---	---	---
B	---	---	22-5/8	625	---	---	---	---
C	---	---	---	---	24-5/8	625	---	---
D	---	---	---	---	---	---	26-5/8	727

REVISIONS

Section	Description of Change
Optional Accessories	Updated Optional Down-Flow Additive Base
Dimensions	Updated Optional Down-Flow Additive Base
Installation Clearances	Table updated.



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Contact us at 1-800-4-LENNOX

NOTE - Due to Lennox' ongoing commitment to quality, Specifications, Ratings and Dimensions subject to change without notice and without incurring liability. Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury. Installation and service must be performed by a qualified installer and servicing agency.

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