



CBK45UHET (-71)

MERIT® Series

Upflow/Horizontal | Constant Torque Motor | TXV Furnished | R-454B | 60Hz

**RESIDENTIAL
PRODUCT SPECIFICATIONS (EHB)**

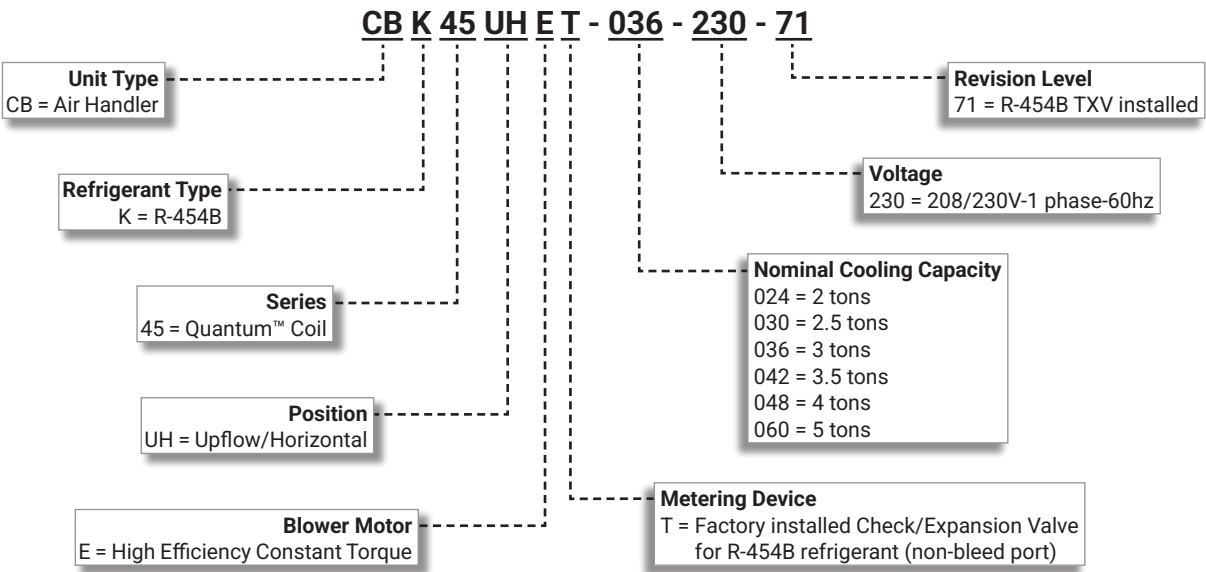
2 to 5 Tons

Optional Electric Heat - 4 to 20 kW

**MERIT®
SERIES**

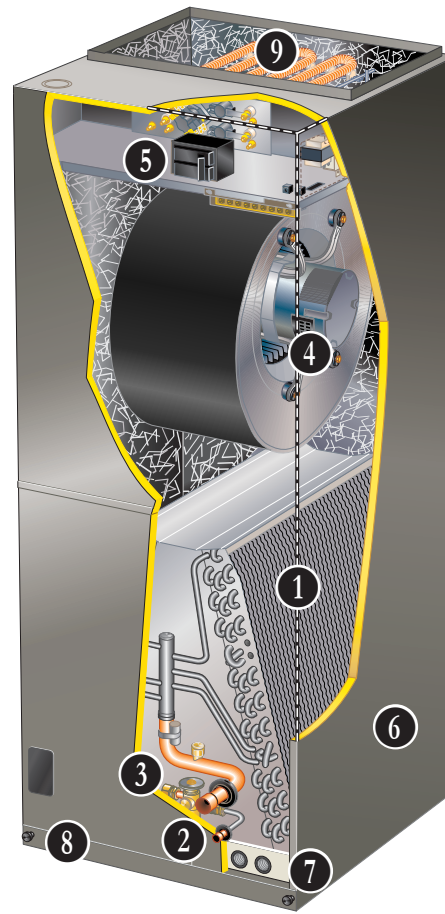


MODEL NUMBER IDENTIFICATION



FEATURE HIGHLIGHTS

1. Quantum™ Coil
2. Refrigerant Line Connections
3. Check and Expansion Valve
4. Power Saver™ Constant Torque Blower Motor
5. Transformer
6. Heavy Gauge Steel Cabinet
7. Anti-Microbial Dual Position Drain Pans
8. Air Filter
9. Electric Heat (option)



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APPROVALS AND WARRANTY

APPROVALS

- Tested with matching air conditioners and heat pump units in the Lennox Research Laboratory environmental test room in accordance with AHRI Standard 210/240-2023
- AHRI Certified system match-ups and expanded ratings, visit www.LennoxPros.com
- ETL Listed to US and Canadian safety standards and components within are bonded for grounding to meet safety standards for servicing required by NEC and CEC
- All models meet UL 60335-2-40 Refrigerant Detector Requirements
- Optional electric heaters are ETL listed and 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
- Approved for installation in manufactured housing and mobile homes
- ISO 9001 Registered Manufacturing Quality System

WARRANTY

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

NOTE - Refer to Lennox® Basic Limited Warranty at www.Lennox.com for additional details.

FEATURES

APPLICATIONS

- 2 to 5 ton nominal sizes
- Upflow or horizontal applications

NOTE - Downflow applications require optional conversion kit.

- Applicable to expansion valve systems in cooling applications and check and expansion valve systems in heat pump applications
- Wide-range check and expansion valve is factory installed
- Optional field installed electric heaters available in several sizes for additive heating capacity

REFRIGERANT SYSTEM

1 Quantum™ Coil

- Lennox designed and fabricated coil
- Enhanced aluminum alloy tube/enhanced fin coil for superior corrosion resistance
- Aluminum tubing, hairpins, distributor and header tubes.
- Ripple-edged aluminum fins
- Twin coil construction assembled in a "A" configuration for large surface area
- Provides excellent heat transfer and low air resistance for maximum efficiency
- Precise circuiting for uniform refrigerant distribution
- Lanced fins provide maximum exposure of fin surface to air stream
- Helical grooved tubing provides superior heat transfer
- Coil thoroughly factory tested under high pressure to ensure leakproof construction

2 Refrigerant Line Connections

- Copper refrigerant sweat connections on both liquid and suction lines for easy brazing
- Lines extend outside of the cabinet for ease of connection
- See dimension drawings for locations

Braze-Free/Press Fitting Flexibility

- Units can accommodate braze-free or press fittings for installation versatility

3 R-454B Check and Expansion Valve

- For use with R-454B systems
- Wide range valve with Chatleff style fitting
- Factory installed on all models, internal to cabinet

BLOWER

4 Power Saver™ Constant Torque Blower Motor

- Programmable high efficiency multi-speed blower motor
- By maintaining constant torque output, blower motor can deliver more uniform (but not constant) airflow over the static pressure range
- Programmable multi-speed operation is achieved by the use of an ECM (Electronically Commutated Motor) motor
- Leadless blower motor features simple plug-in connections
- Choice of blower speeds is available
- See blower Data tables
- Blower speed change is easily accomplished by a simple wiring change

Blower Assembly

- Each blower is statically and dynamically balanced as an assembly before installation in the unit
- Blower motor is resiliently mounted to blower assembly
- Blower slides out of cabinet for servicing

FEATURES

REFRIGERANT DETECTION SYSTEM (RDS)

- Complies with UL 60335-2-40 approved standard
- Required for all systems using R-454B refrigerant
- Consists of a factory installed Refrigerant Detection System (RDS) sensor and a Refrigerant Detection System (RDS) Blower Control Board

Refrigerant Detection System (RDS) Air Handler Sensor

- Sensor ensures safe operation for systems equipped with R-454B refrigerant
- Indoor sensor will detect any R-454B refrigerant

NOTE - Sensor must be repositioned for horizontal-right, horizontal-left, and downflow applications.

Blower Control Board

- Connected to the RDS sensor
- Used as interface between indoor unit and thermostat to control system
- Ensures safe operation for systems equipped with R-454B refrigerant
- If R-454B refrigerant is detected, the refrigerant detection system will stop compressor and/or heating operation and operate the blower to reduce concentrations in the conditioned space
- Once safe levels are reached the HVAC system will resume normal operation
- Multi-color LED for system status and as an aid in troubleshooting
 - Flashing LED codes for system status (Green/Blue) and diagnosing Sensor errors (Red)
- Alarm relay can trigger an external alarm if R-454B refrigerant is detected
- Zone relay opens all zone dampers (if part of a zoning system) if R-454B refrigerant is detected
- Power is disabled to thermostat to prevent demand if R-454B refrigerant is detected
- On system start-up blower will run for five minutes and any thermostat demands are disabled

NOTE - Refer to the Installation Instructions for additional information.

CONTROLS

5 Transformer

- 24 volt transformer furnished as standard
- Factory installed in the unit control box
- Terminal strip furnished

Optional Accessories

Thermostat

- Thermostat is not furnished with unit
- See page 6

CABINET

- 6** • Constructed of heavy gauge galvanized steel
- Pre-painted cabinet finish
- Completely insulated with foil faced fiberglass insulation
- Removable panels provide complete service access
- Filter access door for easy filter replacement
- Thumbscrews hold filter door in place
- Electrical inlets provided in sides and top of cabinet
- See dimension drawing for locations
- Plugs in cabinet for drain connections for upflow (left and right) and horizontal applications
- See dimension drawing

Low Leakage Cabinet

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

Upflow/Horizontal Capability (Optional Downflow)

- Shipped for upflow and horizontal right-hand discharge
- May be field converted to horizontal left-hand air discharge by repositioning horizontal drain pan
- Optional downflow kit required for field conversion

7 Anti-Microbial Dual Position Drain Pans

- Anti-Microbial additive resists growth of mold and mildew on drain pan which improves indoor air quality and reduces drain line blockage
- Drain pans designed for upflow or horizontal applications
- Deep, corrosion resistant high temperature engineered polymer drain pans have dual pipe drains
- See dimension drawing

FEATURES

CABINET (Continued)

Optional Accessories

Downflow Conversion Kit

- Required for field conversion to downflow position
- Kit consists of insulated downflow drain pan, insulated drain pan drip shields, coil drip shields, seal plates and support brackets for repositioning coil and drain pan

Horizontal Support Frame Kit

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

Side Return Unit Stand (Upflow Only)

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

Wall Hanging Bracket Kit (Upflow Only)

- Allows unit to be hung on wall at any height
- Consists of heavy-gauge steel support brackets (one for air handler, one for wall mount)
- Screws furnished for fastening one bracket to unit
- Bolts for fastening one bracket to wall are field provided

High Performance Economizer (Commercial Applications Only)

- Designed for applications requiring outdoor air to be utilized in a commercial HVAC system
- Allows the entry of fresh outdoor air for free cooling, reducing the requirement for mechanical cooling
- Heavy gauge galvanized steel cabinet lined with thick fiberglass insulation
- Mixed air sensor, outdoor air sensor and 24VAC transformer furnished
- Approved for California Title 24 building standards
- ASHRAE 90.1-2010 compliant
- See separate Product Specifications document for additional information and available control and sensor options

FILTER

- 8 • Disposable 1 inch filter is furnished
- Filter rack furnished in cabinet for easy filter installation
- See Specifications tables for filter sizes

OPTIONAL ELECTRIC HEAT

- 9 • ETL listed
- Field install internal to unit cabinet
- Available in several 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
- Thermal sequencer relay brings elements on and off line, in sequence and equal increments, with time delay between each
- Heating control relay(s) furnished as standard
- Factory assembled with controls installed and wired
- Electric heat control wiring plugs into mating connector on air handler unit

Circuit Breaker (CB) Models

- All "CB" model 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
- Flexible plastic circuit breaker cover protects circuit breaker in areas with high humidity or unconditioned areas to prevent nuisance tripping
- Circuit breakers qualify as disconnect means at unit in many areas, eliminate the need for field provided disconnect
- Consult local electrical code in your area

Optional Accessories

Single-Point Power Source Control Box

- Control Box may be used with optional electric heat when single power supply is connected to multi-circuit electric heat
- Field installs external to the unit cabinet on either side or top
- Constructed of heavy gauge steel, baked enamel finish, pre-punched mounting holes, electrical inlet knockouts, and terminal strip
- Removeable cover provides easy access
- Dimensions (H x W x D) - 7 x 7 x 4 in.

INDOOR AIR QUALITY PRODUCT OPTIONS

Healthy Climate® PureAir® Air Purification System

- Filtration - The Carbon Clean 16® (MERV 16) media filter captures more than 95% of particles 0.3 microns and larger and more than 90% of particles 0.01 microns and larger
- Highest airflow performance and lowest pressure drop when compared to a leading brand.
- Long life filters up to 1 year



Healthy Climate® Media Air Cleaner

- High performance in a narrow 7 in. cabinet
- Available with MERV 11, 13, or 16 rated filters
- Multi-position heavy gauge steel cabinet will support furnace/coil or air handler and associated duct work
- Tool-less entry
- Tool-less assembly for quick installation



Healthy Climate® Whole Home In Duct Air Purifiers

- Compact Duct Mounted Design
- Effective against odors and VOC's
- Certified Ozone free
- UVC lamp and carbon cells



Healthy Climate® Ultraviolet Germicidal Lights

- Compact duct mounted design
- Single or dual applications
- Certified ozone free
- Effective against odors to help keep the system clean
- Safety Interlocks (Additional UVC Compliance Kit for UL 60335-2-40 is available for A2L applications)
- Low power consumption
- Available for 24V or 110/230V
- Up to 1340 microwatts /cm² output (dual lamp model)



NOTE - Please refer to the individual Product Specifications for these products for full information.

CONTROL OPTIONS

E40 Smart Wi-Fi Thermostat

- 3 Htg.-2 Clg.
- 7-day, universal, programmable, touchscreen thermostat
- Controls dehumidification during cooling mode and humidification during heating mode
- Smooth Setback Recovery and compressor short-cycle protection
- One-Touch Away Mode, Smart Away™ (geo-fencing), equipment maintenance reminders and scheduling
- Smart home automation compatible with Amazon Alexa®, Google Assistant, Control4®, Building36®, Matter and IFTTT
- Lennox® Home App controls temperature, fan operation, set programs/schedules and set Away mode on a smartphone
- Lennox Smart Tech App allows the installer to commission the system and remotely turn the system on and off during setup or service call on a smartphone



L40 Smart Wi-Fi Thermostat

- 2 Htg.-1 Clg.
- 7-day, universal, programmable, touchscreen thermostat
- Provides temperature control for gas, electric and heat pumps for single-stage heating or cooling systems (including dual-fuel operation)
- One-Touch Away Mode, Smart Away™ (geo-fencing), equipment maintenance reminders and scheduling
- Smooth Setback Recovery and compressor short-cycle protection



- Smart home automation compatible with Amazon Alexa®, Google Assistant, Control4®, Building36®, Matter and IFTTT
- Lennox® Home App controls temperature, fan operation, set programs/schedules and set Away mode on a smartphone
- Lennox Smart Tech App allows the installer to commission the system and remotely turn the system on and off during setup or service call on a smartphone

M40 Smart Wi-Fi Thermostat

- 3 Htg.-2 Clg.
- 7-day, universal, programmable, touchscreen thermostat
- Smooth Setback Recovery and compressor short-cycle protection
- One-Touch Away Mode, Smart Away™ (geo-fencing), equipment maintenance reminders and scheduling
- Smart home automation compatible with Amazon Alexa®, Google Assistant, Control4®, Building36®, Matter and IFTTT
- Lennox® Home App controls temperature, fan operation, set programs/schedules and set Away mode on a smartphone
- Lennox Smart Tech App allows the installer to commission the system and remotely turn the system on and off during setup or service call on a smartphone



NOTE - Please refer to the individual Product Specifications for these products for full information.

INDOOR AIR QUALITY PRODUCT OPTIONS - ORDERING

NOTE - Refer to the individual Product Specifications documents for additional accessories and maintenance items.

Description	Dimensions	Matching Air Handler	Order Number
PureAir® S Air Purification System			
PCO3S-14-16	21-1/8 x 8-3/4 x 23-3/4	---	Y8905
PCO3S-16-16	17-1/2 x 8-3/4 x 26-1/2	---	Y8904
PCO3S-20-16	21-1/8 x 8-3/4 x 26-1/2	---	Y8903
Healthy Climate® Media Air Cleaner			
HCC10-22 (Cabinet)	18-1/2 x 21-1/8 x 7	CBK45UH(E/P)T-018-024-030	26Z81
HCF10-16 (Filter) MERV 16	17 x 21 x 5		26Z88
HCF10-11 (Filter) MERV 11	17 x 21 x 5		26Z85
HCC19-22 (Cabinet)	21-1/2 x 22-3/4 x 7	CBK45UH(E/P)T-036-042-048-060	26Z82
HCF19-16 (Filter) MERV 16	20 x 22 x 5		26Z91
HCF19-11 (Filter) MERV 11	20 x 22 x 5		26Z89
Healthy Climate® Whole Home In Duct Air Purifiers			
HCWHAP1	8 x 7 x 16.5	---	23V99
Healthy Climate® Ultraviolet Germicidal Lights			
UVC-24V (24V) 17-1/2 in.	Ballast 4-3/4 x 2-1/4 x 2	---	X9423
UVC-41W-S (110/230V) 17-1/2 in.	Ballast 11-3/4 x 2-3/4 x 1-5/8	---	X9424
UVC-41W-D (110/230V) 17-1/2 in.	Ballast 11-3/4 x 2-3/4 x 1-5/8	---	X9425
CONTROLS - ORDERING			
E40 Smart Wi-Fi Thermostat	3-3/8 x 5-3/8 x 1	---	30L26
Lennox® Smart Room Sensor	4 x 5-1/2 x 3	---	22V25
Lennox® Smart Air Quality Monitor	3-5/8 x 4-3/8 x 1-3/8	---	21P02
Lennox® Wireless Extender	4 x 5-1/2 x 2-1/2	---	22V26
¹ L40 Smart Wi-Fi Thermostat	2-13/16 x 2-13/16 x 1/4	---	27V51
M40 Smart Wi-Fi Thermostat	3-5/16 x 4-5/16 x 7/8	---	30L27
Thermostat Accessories			
² Discharge Air Temperature Sensor (For E40)			88K38
³ Remote Outdoor Air Temperature Sensor (For dual-fuel and Humiditrol®)			X2658

¹ All optional electric heat is controlled as a single stage of heating.

² Optional for service diagnostics (E40).

³ Remote Outdoor Air Temperature Sensor is used with conventional (non-Lennox® Communicating) outdoor units (sensor is furnished with Lennox® Communicating outdoor units). Allows the thermostat to display outdoor temperature. Required in dual-fuel and Humiditrol® applications.

SPECIFICATIONS

Size	024	030	036
Nominal Tonnage	2	2.5	3
Refrigerant Type	R-454B	R-454B	R-454B
Factory Installed Expansion Valve (TXV)	26Z70	26Z70	26Z70
Connections	Liquid line (OD) sweat - in.	3/8	3/8
	Suction line (OD) sweat - in.	3/4	7/8
	Condensate drain (FPT) - in.	(2) 3/4	(2) 3/4
Indoor Coil	Net face area - ft. ²	3.77	4.72
	Tube diameter - in.	3/8	3/8
	Rows	3	3
	Fins - in.	15	15
Blower	HP	1/2	1/2
	Wheel nominal diameter x width - in.	10 x 8	10 x 8
	Air volume range - cfm	203 - 1054	406 - 1341
¹ Filters	Size - in.	15 x 20 x 1	18 x 20 x 1
Shipping Data - lbs.	127	133	169

ELECTRICAL DATA

Line voltage data (Volts-Phase-Hz)	208/230-1-60	208/230-1-60	208/230-1-60
² Maximum overcurrent protection (MOCP) amps (unit)	15	15	15
³ Minimum circuit ampacity (MCA) (unit)	5.1	5.1	5.1
Blower Motor Full Load Amps	4.1	4.1	4.1

SPECIFICATIONS

Size	042	048	060
Nominal Tonnage	3.5	4	5
Refrigerant Type	R-454B	R-454B	R-454B
Factory Installed Expansion Valve (TXV)	26Z71	26Z71	26Z72
Connections	Liquid line (OD) sweat - in.	3/8	3/8
	Suction line (OD) sweat - in.	7/8	7/8
	Condensate drain (FPT) - in.	(2) 3/4	(2) 3/4
Indoor Coil	Net face area - ft. ²	5.66	6.13
	Tube diameter - in.	3/8	3/8
	Rows	3	3
	Fins - in.	15	15
Blower	HP	3/4	1
	Wheel nominal diameter x width - in.	12 x 10	12 x 10
	Air volume range - cfm	568 - 1656	1110 - 1895
¹ Filters	Size - in.	18 x 20 x 1	18 x 20 x 1
Shipping Data - lbs.	169	179	190

ELECTRICAL DATA

Line voltage data (Volts-Phase-Hz)	208/230-1-60	208/230-1-60	208/230-1-60
² Maximum overcurrent protection (MOCP) amps (unit)	15	15	15
³ Minimum circuit ampacity (MCA) (unit)	8	9.5	9.5
Blower Motor Full Load Amps	6	7.6	7.6

¹ Disposable filter.

² HACR type circuit breaker or fuse.

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.

OPTIONAL ACCESSORIES - ORDER SEPARATELY

Description	024, 030	036, 042, 048, 060
Downflow Conversion Kit	Y9658	Y9659
Electric Heat	See Electric Heat Data Tables on page 11	
Horizontal Support Frame Kit	56J18	56J18
Side Return Unit Stand (Upflow Only)	45K32	45K32
Single-Point Power Source Control Box (for Electric Heat)	21H39	21H39
Wall Hanging Bracket Kit (Upflow Only)	45K30	45K30
High Performance Economizer (Commercial Only)	10U53	10U53

BLOWER DATA

CBK45UHET-024 PERFORMANCE

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds									
	Tap 1		Tap 2		Tap 3		Tap 4		Tap 5	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
0.10	676	64	820	107	1015	180	1015	180	1054	194
0.20	612	71	780	114	981	188	981	188	1020	203
0.30	514	77	752	120	953	195	953	195	987	212
0.40	448	83	712	126	922	204	922	204	958	219
0.50	400	86	678	133	899	210	899	210	940	226
0.60	337	92	598	142	865	219	865	219	902	235
0.70	270	100	535	147	831	224	831	224	881	241
0.80	203	103	495	153	799	237	799	237	833	248

NOTE - All air data measured external to unit with dry coil and 1 inch non-pleated air filter in place.
Electric heaters have no appreciable air resistance.

CBK45UHET-030 PERFORMANCE

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds									
	Tap 1		Tap 2		Tap 3		Tap 4		Tap 5	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
0.10	775	87	999	160	1132	219	1132	219	1341	346
0.20	731	94	965	168	1099	229	1099	229	1309	357
0.30	690	100	936	175	1068	237	1068	237	1289	364
0.40	647	106	899	184	1041	245	1041	245	1259	376
0.50	565	115	870	191	1014	254	1014	254	1239	385
0.60	522	118	833	197	985	261	985	261	1197	389
0.70	474	125	797	208	957	269	957	269	1168	395
0.80	406	132	715	218	928	278	928	278	1139	403

NOTE - All air data measured external to unit with dry coil and 1 inch non-pleated air filter in place.
Electric heaters have no appreciable air resistance.

CBK45UHET-036 PERFORMANCE

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds									
	Tap 1		Tap 2		Tap 3		Tap 4		Tap 5	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
0.10	865	94	1303	250	1415	312	1415	312	1523	386
0.20	812	104	1268	261	1381	325	1381	325	1492	399
0.30	747	113	1234	271	1352	336	1352	336	1462	411
0.40	674	119	1199	283	1316	348	1316	348	1434	423
0.50	620	125	1153	295	1285	360	1285	360	1403	434
0.60	565	131	1117	306	1238	377	1238	377	1363	452
0.70	484	138	1047	323	1202	386	1202	386	1315	456
0.80	422	144	1004	326	1134	396	1134	396	1281	467

NOTE - All air data measured external to unit with dry coil and 1 inch non-pleated air filter in place.
Electric heaters have no appreciable air resistance.

BLOWER DATA

CBK45UHET-042 PERFORMANCE

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds									
	Tap 1		Tap 2		Tap 3		Tap 4		Tap 5	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
0.10	982	132	1446	390	1560	473	1560	473	1656	569
0.20	923	140	1413	402	1526	488	1526	488	1624	581
0.30	866	148	1362	411	1500	498	1500	498	1594	591
0.40	812	153	1357	420	1469	510	1469	510	1563	602
0.50	745	162	1325	429	1437	520	1437	520	1543	613
0.60	686	169	1292	438	1413	530	1413	530	1505	615
0.70	642	176	1257	448	1345	543	1345	543	1456	613
0.80	568	185	1221	458	1335	544	1335	544	1417	612

NOTE - All air data measured external to unit with dry coil and 1 inch non-pleated air filter in place.
Electric heaters have no appreciable air resistance.

CBK45UHET-048 PERFORMANCE

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds									
	Tap 1		Tap 2		Tap 3		Tap 4		Tap 5	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
0.10	1277	187	1524	279	1733	395	1773	426	1899	512
0.20	1234	197	1480	295	1697	410	1741	443	1867	530
0.30	1190	208	1442	307	1661	424	1704	460	1837	544
0.40	1145	217	1400	321	1629	437	1678	472	1806	559
0.50	1099	229	1348	332	1597	449	1645	486	1775	574
0.60	1011	243	1323	344	1552	466	1612	500	1745	588
0.70	934	252	1284	356	1519	478	1577	514	1710	604
0.80	896	258	1212	372	1482	491	1546	525	1680	616
0.90	845	272	1129	385	1451	502	1509	539	1644	632

NOTE - All air data measured external to unit with dry coil and 1 inch non-pleated air filter in place.
Electric heaters have no appreciable air resistance.

CBK45UHET-060 PERFORMANCE

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds									
	Tap 1		Tap 2		Tap 3		Tap 4		Tap 5	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
0.10	1147	144	1673	387	1826	496	1903	553	2010	630
0.20	1085	155	1630	402	1791	512	1876	566	1976	642
0.30	1035	164	1596	415	1762	525	1843	583	1947	656
0.40	1006	171	1563	428	1732	538	1815	596	1912	672
0.50	954	180	1526	443	1704	551	1782	613	1883	683
0.60	825	194	1495	455	1669	567	1750	627	1851	701
0.70	783	199	1464	467	1637	582	1722	641	1821	715
0.80	739	208	1436	477	1602	597	1691	655	1776	717
0.90	687	219	1406	488	1583	604	1643	656	1745	722

NOTE - All air data measured external to unit with dry coil and 1 inch non-pleated air filter in place.
Electric heaters have no appreciable air resistance.

INSTALLATION CLEARANCES WITH ELECTRIC HEAT

Cabinet	0 inch (0 mm)
To Plenum	0 inch (0 mm)
To Outlet Duct	0 inch (0 mm)
Floor	0 inch (0 mm)
Service / Maintenance	See Note #1

¹ 1 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).

REPLACEMENT CIRCUIT BREAKERS

Voltage	Description	Order Number
208/240V - 1 Phase	25 amp, 2 pole	41K13
	30 amp, 2 pole	17K70
	35 amp, 2 pole	72K07
	40 amp, 2 pole	49K14
	45 amp, 2 pole	17K71
	50 amp, 2 pole	41K12
	60 amp, 2 pole	17K72

ELECTRIC HEAT DATA

CBK45UHET-024 | SINGLE PHASE

Electric Heat Model Number	Input			Blower Motor Full Load Amps	² Minimum Circuit Ampacity	³ Maximum Overcurrent Protection
	Volt	kW	¹ Btuh			
4 kW ECB45-4 (27A08) Terminal Block ECB45-4CB (27A12) 30A Circuit Breaker	208	3.0	10,250	4.1	23	⁴25
	220	3.4	11,450	4.1	24	⁴25
	230	3.7	12,550	4.1	25	⁴25
	240	4.0	13,650	4.1	26	30
5 kW ECB45-5 (27A09) Terminal Block ECB45-5CB (27A13) 30A Circuit Breaker	208	3.6	12,300	4.1	27	30
	220	4.0	13,800	4.1	28	30
	230	4.4	15,000	4.1	29	30
	240	4.8	16,400	4.1	30	30
7.5 kW ECB45-7.5 (27A10) Terminal Block ECB45-7.5CB (27A14) 45A Circuit Breaker	208	5.6	19,200	4.1	39	⁴40
	220	6.3	21,500	4.1	41	45
	230	6.9	23,500	4.1	43	45
	240	7.5	25,600	4.1	44	45
10 kW ECB45-10 (27A11) Terminal Block ECB45-10CB (27A15) 60A Circuit Breaker	208	7.2	24,600	4.1	48	⁴50
	220	8.0	27,500	4.1	51	60
	230	8.8	30,000	4.1	53	60
	240	9.6	32,700	4.1	55	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 Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F.

³ HACR type breaker or fuse.

⁴ **Bold indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size shown. See table on page 11.**

ELECTRIC HEAT DATA

CBK45UHET-030 | SINGLE PHASE

Electric Heat Model Number	Input			Blower Motor Full Load Amps	² Minimum Circuit Ampacity		³ Maximum Overcurrent Protection		Single Point Power Source	
	Volt	kW	¹ Btuh		Ckt 1	Ckt 2	Ckt 1	Ckt 2	² Minimum Circuit Ampacity	³ Maximum Overcurrent Protection
4 kW ECB45-4 (27A08) Terminal Block ECB45-4CB (27A12) 30A Circuit Breaker	208	3.0	10,250	4.1	23	---	⁴ 25	---	---	---
	220	3.4	11,450	4.1	24	---	⁴ 25	---	---	---
	230	3.7	12,550	4.1	25	---	⁴ 25	---	---	---
	240	4.0	13,650	4.1	26	---	30	---	---	---
5 kW ECB45-5 (27A09) Terminal Block ECB45-5CB (27A13) 30A Circuit Breaker	208	3.6	12,300	4.1	27	---	30	---	---	---
	220	4.0	13,800	4.1	28	---	30	---	---	---
	230	4.4	15,000	4.1	29	---	30	---	---	---
	240	4.8	16,400	4.1	30	---	30	---	---	---
7.5 kW ECB45-7.5 (27A10) Terminal Block ECB45-7.5CB (27A14) 45A Circuit Breaker	208	5.6	19,200	4.1	39	---	⁴ 40	---	---	---
	220	6.3	21,500	4.1	41	---	45	---	---	---
	230	6.9	23,500	4.1	43	---	45	---	---	---
	240	7.5	25,600	4.1	44	---	45	---	---	---
10 kW ECB45-10 (27A11) Terminal Block ECB45-10CB (27A15) 60A Circuit Breaker	208	7.2	24,600	4.1	48	---	⁴ 50	---	---	---
	220	8.0	27,500	4.1	51	---	60	---	---	---
	230	8.8	30,000	4.1	53	---	60	---	---	---
	240	9.6	32,700	4.1	55	---	60	---	---	---
12.5 kW ECB45-12.5CB (27A16) (1) 50A and (1) 25A Circuit Breaker	208	9.4	32,000	4.1	43	19	⁴ 45	⁴ 20	62	70
	220	10.5	35,800	4.1	45	20	⁴ 45	⁴ 20	65	70
	230	11.5	39,200	4.1	47	21	50	25	68	70
	240	12.5	42,600	4.1	49	22	50	25	70	70
15 kW ECB45-15CB (27A17) (1) 60A and (1) 25A Circuit Breaker	208	10.8	36,900	4.1	48	22	⁴ 50	25	70	70
	220	12.1	41,300	4.1	51	23	60	25	74	80
	230	13.2	45,100	4.1	53	24	60	25	77	80
	240	14.4	49,100	4.1	55	25	60	25	80	80

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

³ HACR type breaker or fuse.

⁴ **Bold indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size shown. See table on page 11.**

ELECTRIC HEAT DATA

CBK45UHET-036 | SINGLE PHASE

Electric Heat Model Number	Input			Blower Motor Full Load Amps	² Minimum Circuit Ampacity		³ Maximum Overcurrent Protection		Single Point Power Source	
	Volt	kW	¹ Btuh		Ckt 1	Ckt 2	Ckt 1	Ckt 2	² Minimum Circuit Ampacity	³ Maximum Overcurrent Protection
4 kW ECB45-4 (27A08) Terminal Block ECB45-4CB (27A12) 30A Circuit Breaker	208	3.0	10,250	4.1	23	---	⁴ 25	---	---	---
	220	3.4	11,450	4.1	24	---	⁴ 25	---	---	---
	230	3.7	12,550	4.1	25	---	⁴ 25	---	---	---
	240	4.0	13,650	4.1	26	---	30	---	---	---
5 kW ECB45-5 (27A09) Terminal Block ECB45-5CB (27A13) 30A Circuit Breaker	208	3.6	12,300	4.1	27	---	30	---	---	---
	220	4.0	13,800	4.1	28	---	30	---	---	---
	230	4.4	15,000	4.1	29	---	30	---	---	---
	240	4.8	16,400	4.1	30	---	30	---	---	---
7.5 kW ECB45-7.5 (27A10) Terminal Block ECB45-7.5CB (27A14) 45A Circuit Breaker	208	5.6	19,200	4.1	39	---	⁴ 40	---	---	---
	220	6.3	21,500	4.1	41	---	45	---	---	---
	230	6.9	23,500	4.1	43	---	45	---	---	---
	240	7.5	25,600	4.1	44	---	45	---	---	---
10 kW ECB45-10 (27A11) Terminal Block ECB45-10CB (27A15) 60A Circuit Breaker	208	7.2	24,600	4.1	48	---	⁴ 50	---	---	---
	220	8.0	27,500	4.1	51	---	60	---	---	---
	230	8.8	30,000	4.1	53	---	60	---	---	---
	240	9.6	32,700	4.1	55	---	60	---	---	---
12.5 kW ECB45-12.5CB (27A16) (1) 50A and (1) 25A Circuit Breaker	208	9.4	32,000	4.1	43	19	⁴ 45	⁴ 20	62	70
	220	10.5	35,800	4.1	45	20	⁴ 45	⁴ 20	65	70
	230	11.5	39,200	4.1	47	21	50	25	68	70
	240	12.5	42,600	4.1	49	22	50	25	70	70
15 kW ECB45-15CB (27A17) (1) 60A and (1) 25A Circuit Breaker	208	10.8	36,900	4.1	48	22	⁴ 50	25	70	70
	220	12.1	41,300	4.1	51	23	60	25	74	80
	230	13.2	45,100	4.1	53	24	60	25	77	80
	240	14.4	49,100	4.1	55	25	60	25	80	80

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

³ HACR type breaker or fuse.

⁴ **Bold indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size shown. See table on page 11.**

ELECTRIC HEAT DATA

CBK45UHET-042 | SINGLE PHASE

Electric Heat Model Number	Input			Blower Motor Full Load Amps	² Minimum Circuit Ampacity		³ Maximum Overcurrent Protection		Single Point Power Source	
	Volt	kW	¹ Btuh		Ckt 1	Ckt 2	Ckt 1	Ckt 2	² Minimum Circuit Ampacity	³ Maximum Overcurrent Protection
4 kW ECB45-4 (27A08) Terminal Block ECB45-4CB (27A12) 30A Circuit Breaker	208	3.0	10,250	6.0	26	---	30	---	---	---
	220	3.4	11,450	6.0	27	---	30	---	---	---
	230	3.7	12,550	6.0	27	---	30	---	---	---
	240	4.0	13,650	6.0	28	---	30	---	---	---
5 kW ECB45-5 (27A09) Terminal Block ECB45-5CB (27A13) 30A Circuit Breaker	208	3.6	12,300	6.0	29	---	30	---	---	---
	220	4.0	13,800	6.0	30	---	30	---	---	---
	230	4.4	15,000	6.0	31	---	435	---	---	---
	240	4.8	16,400	6.0	33	---	435	---	---	---
7.5 kW ECB45-7.5 (27A10) Terminal Block ECB45-7.5CB (27A14) 45A Circuit Breaker	208	5.6	19,200	6.0	41	---	45	---	---	---
	220	6.3	21,500	6.0	43	---	45	---	---	---
	230	6.9	23,500	6.0	45	---	45	---	---	---
	240	7.5	25,600	6.0	47	---	450	---	---	---
10 kW ECB45-10 (27A11) Terminal Block ECB45-10CB (27A15) 60A Circuit Breaker	208	7.2	24,600	6.0	51	---	60	---	---	---
	220	8.0	27,500	6.0	53	---	60	---	---	---
	230	8.8	30,000	6.0	55	---	60	---	---	---
	240	9.6	32,700	6.0	58	---	60	---	---	---
12.5 kW ECB45-12.5CB (27A16) (1) 50A and (1) 25A Circuit Breaker	208	9.4	32,000	6.0	45	19	445	420	64	70
	220	10.5	35,800	6.0	47	20	50	420	67	70
	230	11.5	39,200	6.0	49	21	50	25	70	70
	240	12.5	42,600	6.0	51	22	460	25	73	80
15 kW ECB45-15CB (27A17) (1) 60A and (1) 25A Circuit Breaker	208	10.8	36,900	6.0	51	22	60	25	73	80
	220	12.1	41,300	6.0	53	23	60	25	76	80
	230	13.2	45,100	6.0	55	24	60	25	79	80
	240	14.4	49,100	6.0	58	25	60	25	83	90

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

¹ Electric heater capacity only - does not include additional blower motor heat capacity.² Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F.³ HACR type breaker or fuse.⁴ **Bold indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size shown. See table on page 11.**

ELECTRIC HEAT DATA CBK45UHET-048 | CBK45UHET-060 | SINGLE PHASE

Electric Heat Model Number	Input			Blower Motor Full Load Amps	² Minimum Circuit Ampacity		³ Maximum Overcurrent Protection		Single Point Power Source	
	Volt	kW	¹ Btuh		Ckt 1	Ckt 2	Ckt 1	Ckt 2	² Minimum Circuit Ampacity	³ Maximum Overcurrent Protection
4 kW ECB45-4 (27A08) Terminal Block ECB45-4CB (27A12) 30A Circuit Breaker	208	3.0	10,250	7.6	28	---	30	---	---	---
	220	3.4	11,450	7.6	29	---	30	---	---	---
	230	3.7	12,550	7.6	29	---	30	---	---	---
	240	4.0	13,650	7.6	30	---	30	---	---	---
5 kW ECB45-5 (27A09) Terminal Block ECB45-5CB (27A13) 30A Circuit Breaker	208	3.6	12,300	7.6	31	---	⁴ 35	---	---	---
	220	4.0	13,800	7.6	32	---	⁴ 35	---	---	---
	230	4.4	15,000	7.6	33	---	⁴ 35	---	---	---
	240	4.8	16,400	7.6	35	---	⁴ 35	---	---	---
7.5 kW ECB45-7.5 (27A10) Terminal Block ECB45-7.5CB (27A14) 45A Circuit Breaker	208	5.6	19,200	7.6	43	---	45	---	---	---
	220	6.3	21,500	7.6	45	---	45	---	---	---
	230	6.9	23,500	7.6	47	---	⁴ 50	---	---	---
	240	7.5	25,600	7.6	49	---	⁴ 50	---	---	---
10 kW ECB45-10 (27A11) Terminal Block ECB45-10CB (27A15) 60A Circuit Breaker	208	7.2	24,600	7.6	53	---	60	---	---	---
	220	8.0	27,500	7.6	55	---	60	---	---	---
	230	8.8	30,000	7.6	57	---	60	---	---	---
	240	9.6	32,700	7.6	60	---	60	---	---	---
12.5 kW ECB45-12.5CB (27A16) (1) 50A and (1) 25A Circuit Breaker	208	9.4	32,000	7.6	47	19	50	⁴ 20	66	70
	220	10.5	35,800	7.6	49	20	50	⁴ 20	69	70
	230	11.5	39,200	7.6	51	21	⁴ 60	25	72	80
	240	12.5	42,600	7.6	53	22	⁴ 60	25	75	80
15 kW ECB45-15CB (27A17) (1) 60A and (1) 25A Circuit Breaker	208	10.8	36,900	7.6	53	22	60	25	75	80
	220	12.1	41,300	7.6	55	23	60	25	78	80
	230	13.2	45,100	7.6	57	24	60	25	81	90
	240	14.4	49,100	7.6	60	25	60	25	85	90
20 kW ECB45-20CB (27A18) (1) 60A and (1) 50A Circuit Breaker	208	14.4	49,200	7.6	53	43	60	⁴ 45	96	100
	220	16.1	55,000	7.6	55	46	60	50	101	110
	230	17.6	60,100	7.6	57	48	60	50	105	110
	240	19.2	65,500	7.6	60	50	60	50	110	110

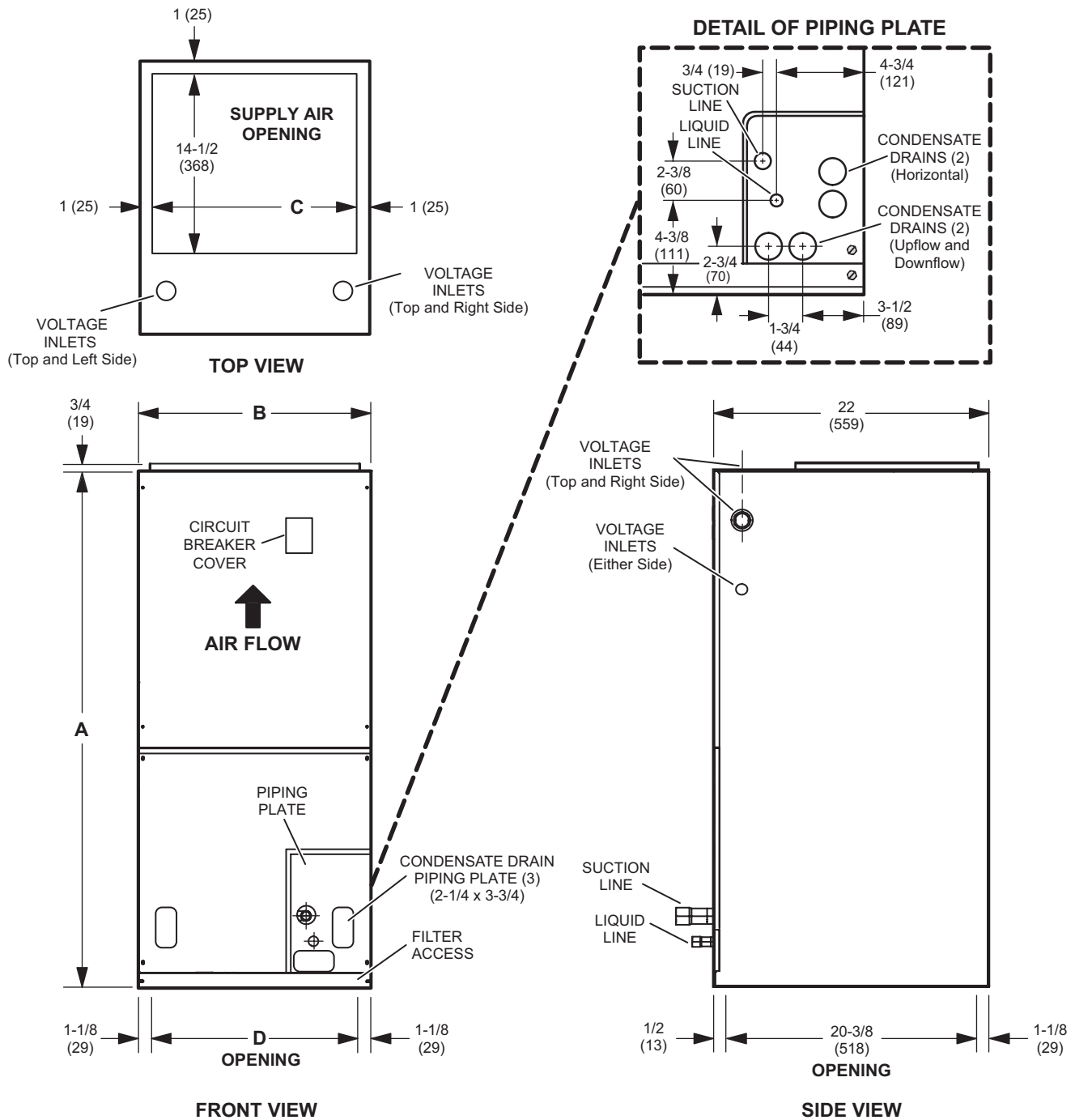
NOTE - Circuit 1 Minimum Circuit Ampacity includes the Blower Motor Full Load Amps.

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

² Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F.

³ HACR type breaker or fuse.

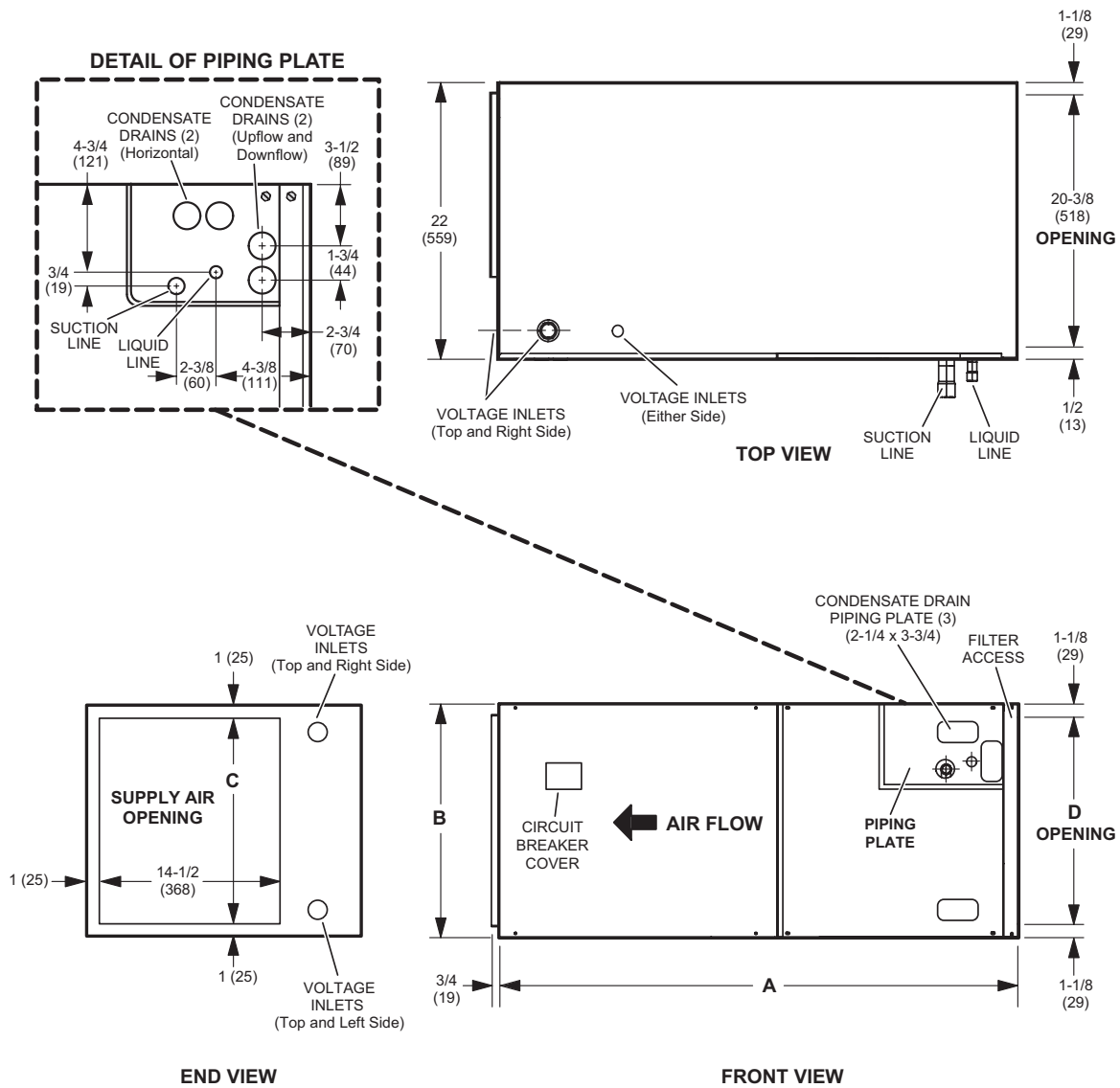
⁴ **Bold indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size shown. See table on page 11.**



Dimensions	024		030		036, 042		048		060	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
A	45-1/2	1156	47	1194	53-5/8	1362	55	1397	59-3/4	1518
B	18-1/2	470	18-1/2	470	21-1/2	546	21-1/2	546	21-1/2	546
C	16-1/2	419	16-1/2	419	19-1/2	495	19-1/2	495	19-1/2	495
D	16-1/4	413	16-1/4	413	19-1/4	489	19-1/4	489	19-1/4	489

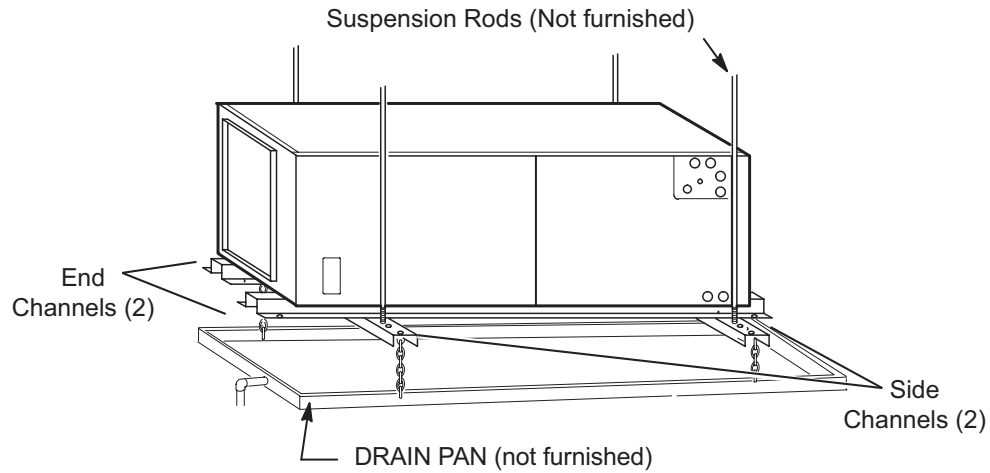
DIMENSIONS

UNIT - HORIZONTAL POSITION



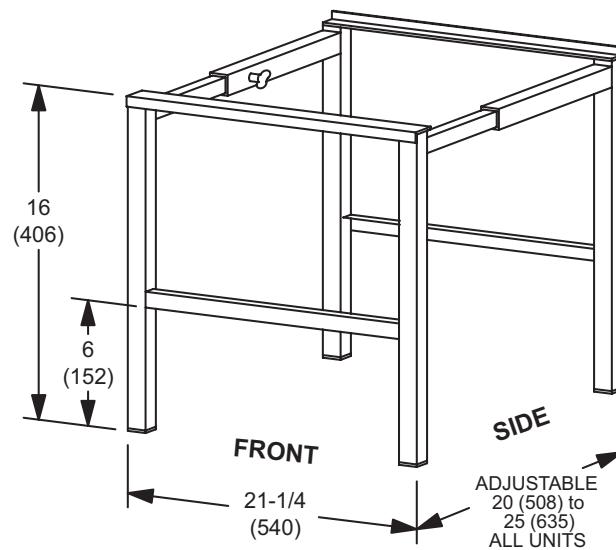
Dimensions	024		030		036, 042		048		060	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
A	45-1/2	1156	47	1194	53-5/8	1362	55	1397	59-3/4	1518
B	18-1/2	470	18-1/2	470	21-1/2	546	21-1/2	546	21-1/2	546
C	16-1/2	419	16-1/2	419	19-1/2	495	19-1/2	495	19-1/2	495
D	16-1/4	413	16-1/4	413	19-1/4	489	19-1/4	489	19-1/4	489

HORIZONTAL SUPPORT FRAME KIT



Includes (2) 1 x 1-1/2 x 32-5/8 in. side channels and (2) 1 x 3 x 53-7/8 in. end channels.

SIDE RETURN UNIT STAND (Upflow Only)



REVISIONS

Sections	Description of Change
Control Options	Updated to reflect latest product offering.



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