



CBK45UHPT (-71)

MERIT® Series

Upflow/Horizontal | PSC Motor | Quantum™ Coil | TXV Furnished | **R-454B** | 60Hz

RESIDENTIAL
PRODUCT SPECIFICATIONS (EHB)

1.5 to 3.5 Tons

Optional Electric Heat - 4 to 20 kW

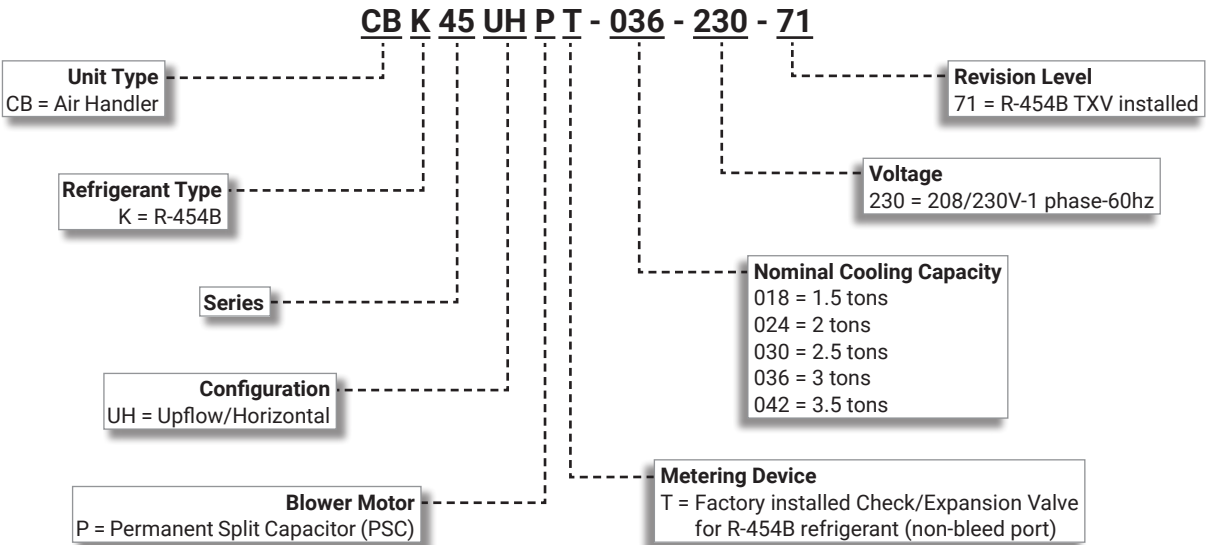
MERIT®
SERIES



2025 COMPLIANT
REFRIGERANT

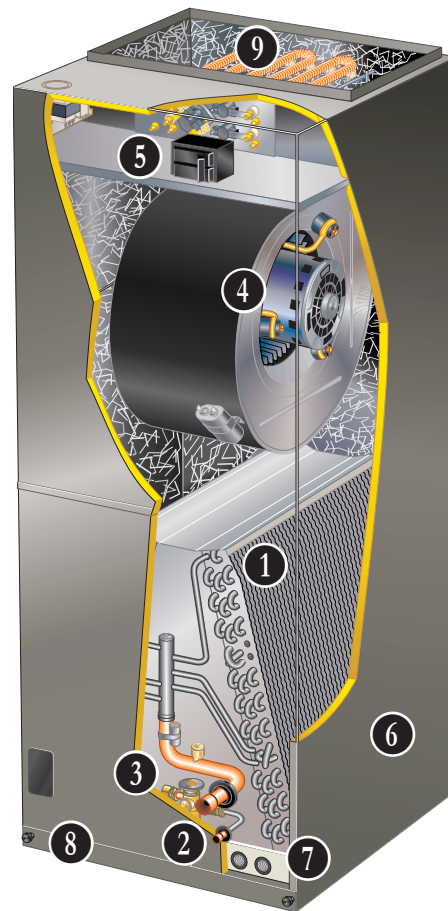


MODEL NUMBER IDENTIFICATION



FEATURE HIGHLIGHTS

1. Quantum™ Coil
2. Refrigerant Line Connections
3. Check and Expansion Valve
4. PSC Blower Motor
5. Transformer and Blower Relay
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

- 1.5 to 3.5 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 R-454B 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 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 Permanent Split Capacitor (PSC) Motor

- Multi-speed PSC motor
- Choice of blower speeds
- Speed changes easily accomplished by a simple wiring change
- Blower is easily removed from unit for servicing

Time Delay Blower Relay

- Relay allows one second blower "on" delay before continuous fan or cooling operation and 45 second blower "off" delay after continuous fan or cooling operation

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 and Blower Cooling Relay**
- 24 volt transformer and blower cooling relay 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

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

FEATURES

CABINET (continued)

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
- Initiates and terminates blower operation
- 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

E30 Smart Wi-Fi Thermostat

- 4 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 Apple HomeKit™, Amazon Alexa® and Google Assistant
- 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



- Smart home automation compatible with Amazon Alexa®, Google Assistant, Control4® and Building36®
- 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

M30 Smart Wi-Fi Thermostat

- 4 Htg.-2 Clg.
- 7-day, universal, programmable, touchscreen thermostat
- Humidification / dehumidification / dewpoint measurement and control, Humiditrol® control
- 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 Apple HomeKit™, Amazon Alexa® and Google Assistant
- 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



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® Air Purification System			
PCO3-14-16	21-1/8 x 8-3/4 x 23-3/4	CBK45UH(E/P/T)- 018-024-030- 036-042-048-060	Y6601
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			
E30 Smart Wi-Fi Thermostat	5 x 7-1/2 x 1	---	20A65
¹ L40 Smart Wi-Fi Thermostat	2-13/16 x 2-13/16 x 1/4	---	27V51
M30 Smart Wi-Fi Thermostat	3-5/16 x 4-5/16 x 7/8	---	15Z69
Thermostat Accessories			
² Discharge Air Temperature Sensor (For E30)			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 (E30).

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		018	024	030	036	042
Nominal Tonnage		1.5	2	2.5	3	3.5
Refrigerant Type		R-454B	R-454B	R-454B	R-454B	R-454B
Factory Installed Expansion (TXV)		26Z70	26Z70	26Z70	26Z70	26Z71
Connections	Liquid line (OD) sweat - in.	3/8	3/8	3/8	3/8	3/8
	Suction line (OD) sweat - in.	3/4	3/4	3/4	7/8	7/8
	Condensate drain (FPT) - in.	(2) 3/4	(2) 3/4	(2) 3/4	(2) 3/4	(2) 3/4
Indoor Coil	Net face area - ft. ²	3.30	3.77	4.72	5.66	5.66
	Tube diameter - in.	3/8	3/8	3/8	3/8	3/8
	Rows	3	3	3	3	3
	Fins - in.	15	15	15	15	15
Blower	HP	1/5	1/3	1/2	1/3	1/2
	Wheel nominal diameter x width - in.	9 x 6	9 x 6	10 x 8	10 x 8	10 x 8
	Air volume range - cfm	420 - 920	590 - 1105	770 - 1310	805 - 1560	1155 - 1815
¹ Filters	Size - in.	15 x 20 x 1	15 x 20 x 1	15 x 20 x 1	18 x 20 x 1	18 x 20 x 1
Shipping Data - lbs.		129	136	143	169	169

ELECTRICAL DATA

Line voltage data (Volts-Phase-Hz)	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
² Maximum overcurrent protection (MOCP) amps (unit)	15	15	15	15	15
³ Minimum circuit ampacity (MCA) (unit)	5.0	5.0	5.0	5.0	5.0
Blower Motor Full Load Amps	1.1	1.6	2.2	2.0	2.5

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	018, 024, 030	036, 042, 048, 060
Downflow Conversion Kit	Y9658	Y9659
Electric Heat	See Electric Heat Data Tables on page 10	
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

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).

BLOWER DATA

CBK45UHPT-018 PERFORMANCE

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds					
	High		Medium		Low	
	cfm	Watts	cfm	Watts	cfm	Watts
0.10	920	264	690	190	540	144
0.20	880	251	670	183	525	140
0.30	855	238	640	176	505	136
0.40	790	224	605	167	470	130
0.50	710	210	550	155	420	122

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.

CBK45UHPT-024 PERFORMANCE

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds					
	High		Medium		Low	
	cfm	Watts	cfm	Watts	cfm	Watts
0.10	1105	342	1010	280	675	210
0.20	1045	322	980	262	675	202
0.30	1000	307	940	247	655	192
0.40	915	284	805	235	630	180
0.50	855	268	740	216	590	170

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.

CBK45UHPT-030 PERFORMANCE

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds					
	High		Medium		Low	
	cfm	Watts	cfm	Watts	cfm	Watts
0.10	1310	496	1080	391	870	310
0.20	1260	466	1055	378	870	301
0.30	1215	449	1025	361	855	288
0.40	1155	431	985	343	810	278
0.50	1085	408	935	325	770	265

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.

CBK45UHPT-036 PERFORMANCE

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds					
	High		Medium		Low	
	cfm	Watts	cfm	Watts	cfm	Watts
0.10	1560	532	1275	402	1020	295
0.20	1520	518	1240	388	970	287
0.30	1445	502	1190	375	955	280
0.40	1395	480	1150	363	910	270
0.50	1325	460	1085	346	805	254

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.

CBK45UHPT-042 PERFORMANCE

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds					
	High		Medium		Low	
	cfm	Watts	cfm	Watts	cfm	Watts
0.10	1815	674	1525	498	1300	394
0.20	1755	652	1495	486	1275	387
0.30	1695	634	1450	473	1250	376
0.40	1605	607	1390	455	1210	367
0.50	1530	582	1345	441	1155	356

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.

ELECTRIC HEAT DATA

CBK45UHPT-018 | 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	1.1	19	⁴ 20
	220	3.4	11,450	1.1	20	⁴ 20
	230	3.7	12,550	1.1	21	⁴ 25
	240	4.0	13,650	1.1	22	⁴ 25
5 kW ECB45-5 (27A09) Terminal Block ECB45-5CB (27A13) 30A Circuit Breaker	208	3.6	12,300	1.1	23	⁴ 25
	220	4.0	13,800	1.1	24	⁴ 25
	230	4.4	15,000	1.1	25	⁴ 25
	240	4.8	16,400	1.1	26	30
7.5 kW ECB45-7.5 (27A10) Terminal Block ECB45-7.5CB (27A14) 45A Circuit Breaker	208	5.6	19,200	1.1	35	35
	220	6.3	21,500	1.1	37	⁴ 40
	230	6.9	23,500	1.1	39	⁴ 40
	240	7.5	25,600	1.1	40	⁴ 40
10 kW ECB45-10 (27A11) Terminal Block ECB45-10CB (27A15) 60A Circuit Breaker	208	7.2	24,600	1.1	45	⁴ 45
	220	8.0	27,500	1.1	47	⁴ 50
	230	8.8	30,000	1.1	49	⁴ 50
	240	9.6	32,700	1.1	51	60

ELECTRIC HEAT DATA

CBK45UHPT-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	1.6	20	⁴ 20
	220	3.4	11,450	1.6	21	⁴ 25
	230	3.7	12,550	1.6	22	⁴ 25
	240	4.0	13,650	1.6	23	⁴ 25
5 kW ECB45-5 (27A09) Terminal Block ECB45-5CB (27A13) 30A Circuit Breaker	208	3.6	12,300	1.6	24	⁴ 25
	220	4.0	13,800	1.6	25	⁴ 25
	230	4.4	15,000	1.6	26	30
	240	4.8	16,400	1.6	27	30
7.5 kW ECB45-7.5 (27A10) Terminal Block ECB45-7.5CB (27A14) 45A Circuit Breaker	208	5.6	19,200	1.6	36	⁴ 40
	220	6.3	21,500	1.6	38	⁴ 40
	230	6.9	23,500	1.6	39	⁴ 40
	240	7.5	25,600	1.6	41	45
10 kW ECB45-10 (27A11) Terminal Block ECB45-10CB (27A15) 60A Circuit Breaker	208	7.2	24,600	1.6	45	⁴ 45
	220	8.0	27,500	1.6	48	⁴ 50
	230	8.8	30,000	1.6	50	⁴ 50
	240	9.6	32,700	1.6	52	60

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

¹ Electric heater capacity only - does not include additional blower motor heat capacity.² 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 13.

ELECTRIC HEAT DATA

CBK45UHPT-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	2.2	21	---	⁴ 25	---	---	---
	220	3.4	11,450	2.2	22	---	⁴ 25	---	---	---
	230	3.7	12,550	2.2	23	---	⁴ 25	---	---	---
	240	4.0	13,650	2.2	24	---	⁴ 25	---	---	---
5 kW ECB45-5 (27A09) Terminal Block ECB45-5CB (27A13) 30A Circuit Breaker	208	3.6	12,300	2.2	24	---	⁴ 25	---	---	---
	220	4.0	13,800	2.2	26	---	30	---	---	---
	230	4.4	15,000	2.2	27	---	30	---	---	---
	240	4.8	16,400	2.2	28	---	30	---	---	---
7.5 kW ECB45-7.5 (27A10) Terminal Block ECB45-7.5CB (27A14) 45A Circuit Breaker	208	5.6	19,200	2.2	37	---	⁴ 40	---	---	---
	220	6.3	21,500	2.2	39	---	⁴ 40	---	---	---
	230	6.9	23,500	2.2	40	---	⁴ 40	---	---	---
	240	7.5	25,600	2.2	42	---	45	---	---	---
10 kW ECB45-10 (27A11) Terminal Block ECB45-10CB (27A15) 60A Circuit Breaker	208	7.2	24,600	2.2	46	---	⁴ 50	---	---	---
	220	8.0	27,500	2.2	49	---	⁴ 50	---	---	---
	230	8.8	30,000	2.2	51	---	60	---	---	---
	240	9.6	32,700	2.2	53	---	60	---	---	---
12.5 kW ECB45-12.5CB (27A16) (1) 50A and (1) 25A Circuit Breaker	208	9.4	32,000	2.2	40	19	⁴ 40	⁴ 20	59	60
	220	10.5	35,800	2.2	43	20	⁴ 45	⁴ 20	62	70
	230	11.5	39,200	2.2	44	21	⁴ 45	25	65	70
	240	12.5	42,600	2.2	46	22	50	25	68	70
15 kW ECB45-15CB (27A17) (1) 60A and (1) 25A Circuit Breaker	208	10.8	36,900	2.2	46	22	⁴ 50	25	68	70
	220	12.1	41,300	2.2	49	23	⁴ 50	25	72	80
	230	13.2	45,100	2.2	51	24	60	25	75	80
	240	14.4	49,100	2.2	53	25	60	25	78	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 13.**

ELECTRIC HEAT DATA

CBK45UHPT-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	2.0	21	---	⁴ 25	---	---	---
	220	3.4	11,450	2.0	22	---	⁴ 25	---	---	---
	230	3.7	12,550	2.0	22	---	⁴ 25	---	---	---
	240	4.0	13,650	2.0	23	---	⁴ 25	---	---	---
5 kW ECB45-5 (27A09) Terminal Block ECB45-5CB (27A13) 30A Circuit Breaker	208	3.6	12,300	2.0	24	---	⁴ 25	---	---	---
	220	4.0	13,800	2.0	25	---	⁴ 25	---	---	---
	230	4.4	15,000	2.0	26	---	30	---	---	---
	240	4.8	16,400	2.0	28	---	30	---	---	---
7.5 kW ECB45-7.5 (27A10) Terminal Block ECB45-7.5CB (27A14) 45A Circuit Breaker	208	5.6	19,200	2.0	36	---	⁴ 40	---	---	---
	220	6.3	21,500	2.0	38	---	⁴ 40	---	---	---
	230	6.9	23,500	2.0	40	---	⁴ 40	---	---	---
	240	7.5	25,600	2.0	42	---	45	---	---	---
10 kW ECB45-10 (27A11) Terminal Block ECB45-10CB (27A15) 60A Circuit Breaker	208	7.2	24,600	2.0	46	---	⁴ 50	---	---	---
	220	8.0	27,500	2.0	48	---	⁴ 50	---	---	---
	230	8.8	30,000	2.0	50	---	⁴ 50	---	---	---
	240	9.6	32,700	2.0	53	---	60	---	---	---
12.5 kW ECB45-12.5CB (27A16) (1) 50A and (1) 25A Circuit Breaker	208	9.4	32,000	2.0	40	19	⁴ 40	⁴ 20	59	60
	220	10.5	35,800	2.0	42	20	⁴ 45	⁴ 20	62	70
	230	11.5	39,200	2.0	44	21	⁴ 45	25	65	70
	240	12.5	42,600	2.0	46	22	50	25	68	70
15 kW ECB45-15CB (27A17) (1) 60A and (1) 25A Circuit Breaker	208	10.8	36,900	2.0	46	22	⁴ 50	25	68	70
	220	12.1	41,300	2.0	48	23	⁴ 50	25	71	80
	230	13.2	45,100	2.0	50	24	⁴ 50	25	74	80
	240	14.4	49,100	2.0	53	25	60	25	78	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 13.**

ELECTRIC HEAT DATA

CBK45UHPT-042 | SINGLE PHASE

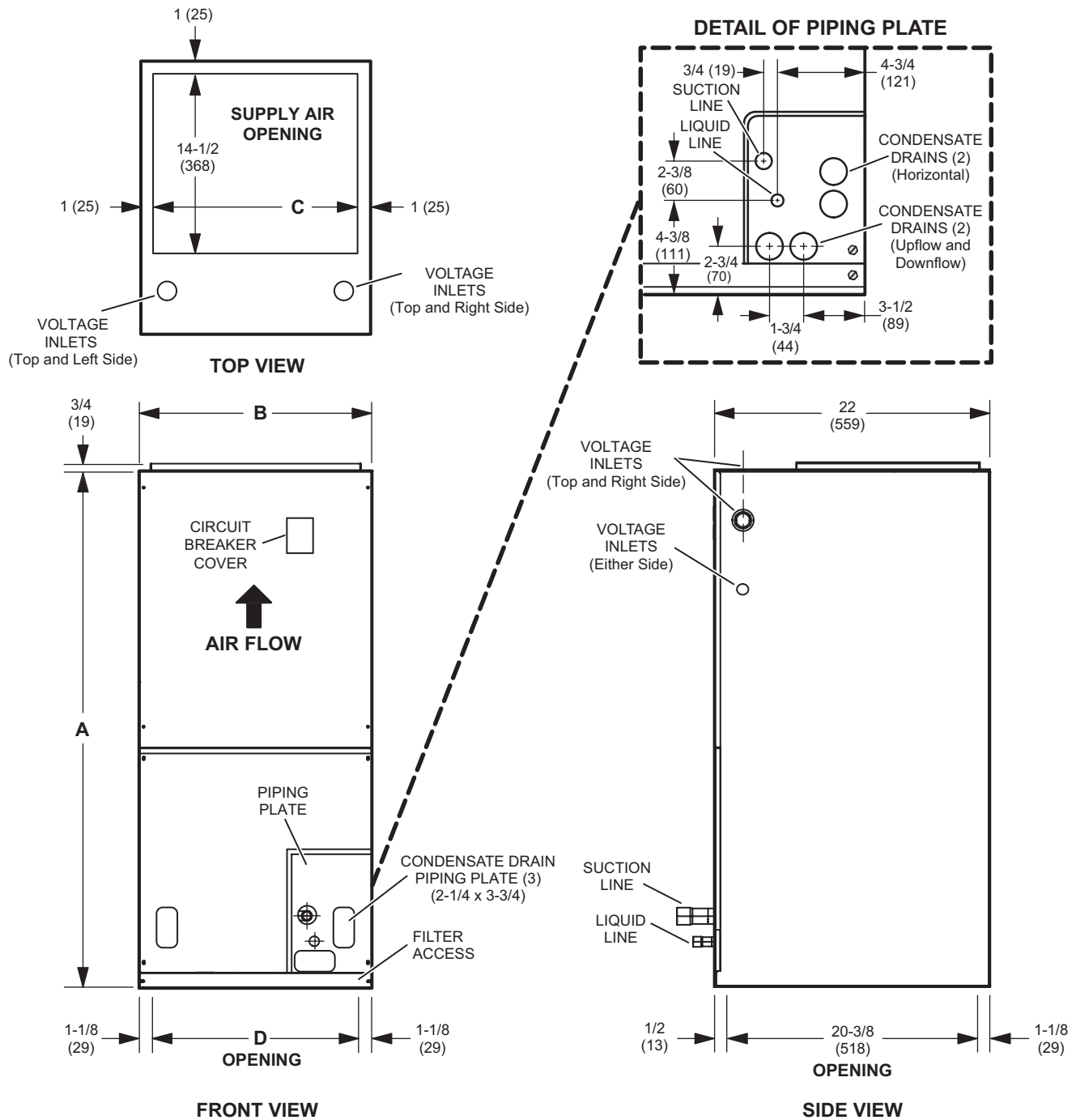
Electric Heat Model Number	Input			Blower Motor Full Load Amps	² Minimum Circuit Ampacity		³ Maximum Overcurrent Protection		Single Point Power Source	
	Volt	kW	¹ Btuh		Ckt 1	Ckt 2	Ckt 1	Ckt 2	² Minimum Circuit Ampacity	³ Maximum Overcurrent Protection
4 kW ECB45-4 (27A08) Terminal Block ECB45-4CB (27A12) 30A Circuit Breaker	208	3.0	10,250	2.5	21	---	⁴ 25	---	---	---
	220	3.4	11,450	2.5	22	---	⁴ 25	---	---	---
	230	3.7	12,550	2.5	23	---	⁴ 25	---	---	---
	240	4.0	13,650	2.5	24	---	⁴ 25	---	---	---
5 kW ECB45-5 (27A09) Terminal Block ECB45-5CB (27A13) 30A Circuit Breaker	208	3.6	12,300	2.5	25	---	⁴ 25	---	---	---
	220	4.0	13,800	2.5	26	---	30	---	---	---
	230	4.4	15,000	2.5	27	---	30	---	---	---
	240	4.8	16,400	2.5	28	---	30	---	---	---
7.5 kW ECB45-7.5 (27A10) Terminal Block ECB45-7.5CB (27A14) 45A Circuit Breaker	208	5.6	19,200	2.5	37	---	⁴ 40	---	---	---
	220	6.3	21,500	2.5	39	---	⁴ 40	---	---	---
	230	6.9	23,500	2.5	41	---	45	---	---	---
	240	7.5	25,600	2.5	42	---	45	---	---	---
10 kW ECB45-10 (27A11) Terminal Block ECB45-10CB (27A15) 60A Circuit Breaker	208	7.2	24,600	2.5	46	---	⁴ 50	---	---	---
	220	8.0	27,500	2.5	49	---	⁴ 50	---	---	---
	230	8.8	30,000	2.5	51	---	60	---	---	---
	240	9.6	32,700	2.5	53	---	60	---	---	---
12.5 kW ECB45-12.5CB (27A16) (1) 50A and (1) 25A Circuit Breaker	208	9.4	32,000	2.5	41	19	⁴ 45	⁴ 20	60	60
	220	10.5	35,800	2.5	43	20	⁴ 45	⁴ 20	63	70
	230	11.5	39,200	2.5	45	21	⁴ 45	25	66	70
	240	12.5	42,600	2.5	47	22	50	25	68	70
15 kW ECB45-15CB (27A17) (1) 60A and (1) 25A Circuit Breaker	208	10.8	36,900	2.5	46	22	⁴ 50	25	68	70
	220	12.1	41,300	2.5	49	23	⁴ 50	25	72	80
	230	13.2	45,100	2.5	51	24	60	25	75	80
	240	14.4	49,100	2.5	53	25	60	25	78	80

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

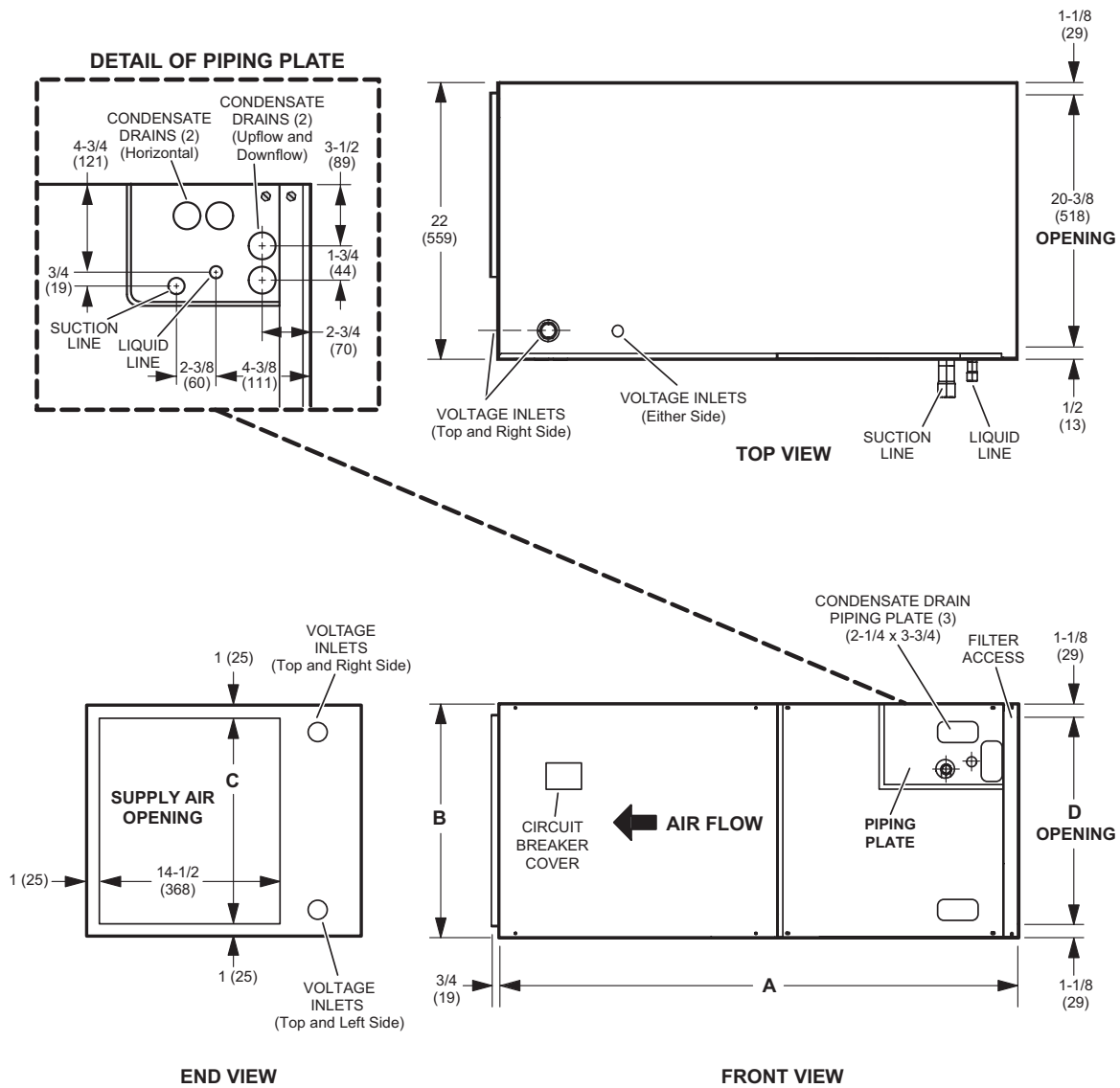
¹ Electric heater capacity only - does not include additional blower motor heat capacity.² Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F.³ HACR type breaker or fuse.⁴ **Bold indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size shown. See table on page 13.**

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

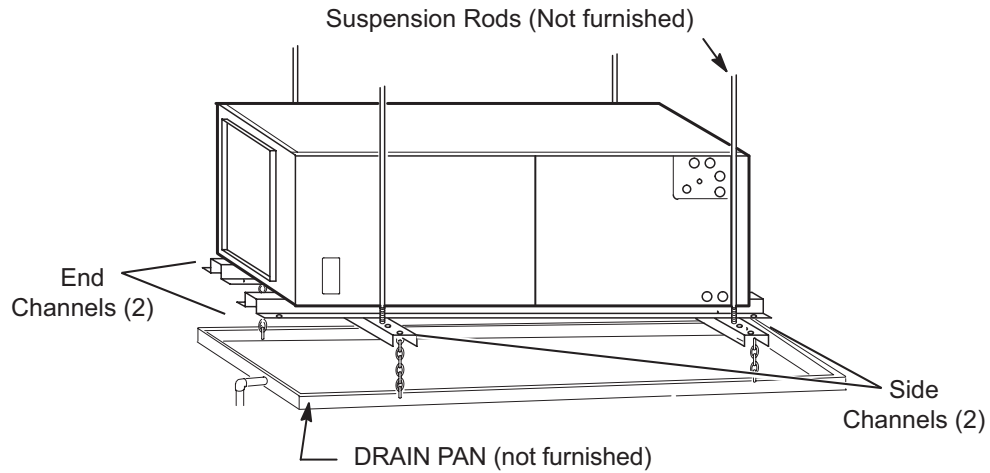


Dimensions	018		024		030		036, 042	
	in.	mm	in.	mm	in.	mm	in.	mm
A	43-1/2	1105	45-1/2	1156	47	1194	53-5/8	1362
B	18-1/2	470	18-1/2	470	18-1/2	470	21-1/2	546
C	16-1/2	419	16-1/2	419	16-1/2	419	19-1/2	495
D	16-1/4	413	16-1/4	413	16-1/4	413	19-1/4	489



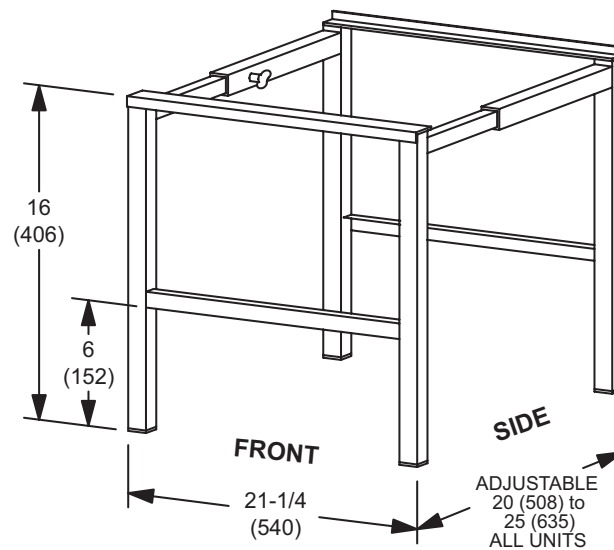
Dimensions	018		024		030		036, 042	
	in.	mm	in.	mm	in.	mm	in.	mm
A	43-1/2	1105	45-1/2	1156	47	1194	53-5/8	1362
B	18-1/2	470	18-1/2	470	18-1/2	470	21-1/2	546
C	16-1/2	419	16-1/2	419	16-1/2	419	19-1/2	495
D	16-1/4	413	16-1/4	413	16-1/4	413	19-1/4	489

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
New Section	Added new IAQ and Control Options sections.



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