## AIR HANDLERS

# CBA38MV

# DAVE LENNOX SIGNATURE® COLLECTION R-410A Ready - Multi-Position - Variable Speed

# PRODUCT SPECIFICATIONS

LENNOX

Bulletin No. 210803 March 2018



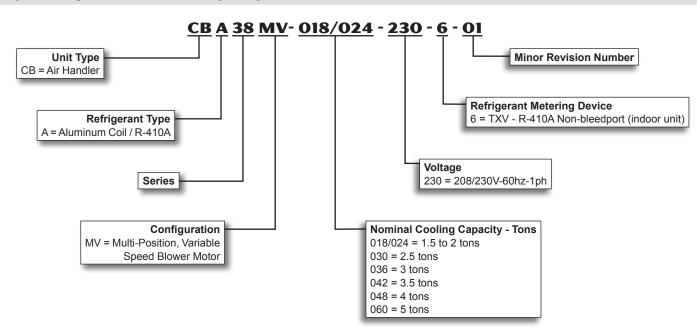




So simple. So smart. So comfortable.

# Nominal Capacity - 1.5 to 5 Tons Optional Electric Heat - 4 to 25 kW

#### **MODEL NUMBER IDENTIFICATION**



#### **CONTENTS**

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#### **WARRANTY**

**All covered components -** Limited ten 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 AHRI Standard 210/240.

Optional electric heaters are rated in accordance with US Department of Energy (DOE) test procedures and Federal Trade Commission (FTC) labeling regulations.

Blower performance data according to unit tests conducted in Lennox air test chamber.

Air handlers and components within are bonded for grounding to meet safety standards for servicing required by ETL, NEC and CEC.

Units are ETL certified for the U.S. and Canada.

Air handler units are approved for installation in manufactured housing and mobile homes.

ISO 9001 Registered Manufacturing Quality System.

#### **APPLICATIONS**

1.5 to 5 ton nominal sizes.

Multi-position (upflow, downflow or horizontal) applications.

Applicable to expansion valve systems in R-410A cooling applications and check and expansion valve systems in R-410A heat pump applications.

Applicable to Lennox' iHarmony® Zoning System.

Wide-range check and expansion valve is factory installed.

See AHRI System Matches - Air Conditioners document for cooling capacities.

See AHRI System Matches - Heat Pumps document for cooling and heating capacities.

Optional field installed electric heaters available in several sizes for additive heating capacity.

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#### **Zoning Applications**

Units can be used with certain zoning systems. Zone control panel MUST be able to interface and communicate with the variable speed motor in the unit. Lennox iHarmony® Zoning System has this capability.

### REFRIGERANT SYSTEM

# 1 Lennox Quantum™ Coil

Enhanced aluminum alloy tube/enhanced fin coil for superior corrosion resistance.

Lennox designed and fabricated coils.

Aluminum tubing, hairpins, distributor and header tubes.

Ripple-edged aluminum fins.

Twin coil construction assembled in a "A" configuration for large surface area.

Provides excellent heat transfer and low air resistance for maximum efficiency.

Precise circuiting for uniform refrigerant distribution.

Lanced fins provide maximum exposure of fin surface to air stream.

Rifled tubing provides superior heat transfer.

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

# REFRIGERANT SYSTEM (continued)

# 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.

# 3 Check and Expansion Valve Furnished

For use with R-410A systems.

Wide range valve with Chatleff style fitting.



Factory installed on all models, internal to cabinet.

#### **CABINET**

4 Constructed of heavy-gauge galvanized steel.

Completely insulated with thick fiberglass insulation.

Pre-painted steel cabinets have mildly textured enamel finish with primer coat on unpainted side of all panels.

Units are shipped in one piece but may be disassembled into two separate sections for ease of installation in tight applications. See dimension drawings.

Thick rubber gasket between sections of the two piece cabinets provides an air tight seal.

No external screw heads on sides of cabinet for tight installations without damage to walls or woodwork.

Removable panels provide complete service access.

Electrical inlets provided in sides and top of cabinet. See dimension drawings for locations.

#### **Low Leakage Cabinet**

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

#### **Multi-Position Capability**

Shipped for upflow and horizontal right-hand discharge.

Quickly converted to downflow or left-hand, horizontal air discharge.

Easily converts to downflow position with furnished coil support rails and filter support rack.

#### **Dual Position Drain Pans**

Drain pans designed for upflow, downflow or horizontal applications.

Deep, corrosion resistant plastic drain pans have dual pipe drains.

See dimension drawings.

#### **Optional Accessories**

#### **Downflow Combustible Flooring Base**

Base is required for models with electric heat installed in downflow position on combustible floors.

#### **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 -018/024 thru -060 models.

#### Wall Hanging Bracket Kit (Upflow Only)

Allows unit to be hung on wall at any height.

Consists of heavy-gauge steel support brackets (one for air handler, one for wall mount).

Screws furnished for fastening one bracket to unit.

Bolts for fastening one bracket to wall are field provided.

# 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 bulletin for additional information and available control and sensor options.

#### **CONTROLS**

# 5 iComfort® Communicating Control

Advanced control board communicates information about various operating parameters in the air handler to the optional iComfort® Communicating Thermostat to constantly maintain the highest level of comfort, performance and efficiency available.



Auto Configuration - On start-up the control board automatically

sends a description of the unit to the optional iComfort® Communicating Thermostat to automatically configure the number of stages and features available.

Connections for connecting a conventional heating/cooling thermostat are also provided on the board.

Board also features:

- Lennox Humiditrol® Whole Home Dehumidification System (EDA) compatible.
- · EEPROM storage of all local configurations.
- Non-volatile memory storage of 100 alarm codes with display of last 10 codes for troubleshooting.
- Connections for optional outdoor temperature sensor (communicates temperature on RSBUS to thermostat).
- Controls evaporator humidity by controlling blower and compressor staging on two-stage outdoor units.
- Two stages HEAT and COOL (with four different air volume selections for each) are made by simple jumper pins on board.
- ADJUST jumper pin allows approximately 10% higher, normal or 10% lower motor speed selection within HEAT and COOL speeds selected for fine tuning air volume.
- DELAY jumper pin allows selection of blower motor de-humidification profiles during cooling mode.

**Option 1 -** Motor runs at 100% of capacity until demand met. Once demand is met, motor ramps down to stop.

**Option 2 -** Cooling: When cool demand is initiated, motor ramps up to 100% and runs at 100% until demand is satisfied. Once demand is met, motor runs at 100% for 45 seconds, then ramps down to stop. Heat Pump: When heat pump demand is initiated, 30 second motor on delay starts. After the motor on delays expires, motor ramps up to 100% and runs at 100% until demand is satisfied. Once demand is met, motor runs at 100% for 45 seconds, then ramps down to stop.

**Option 3 -** Motor runs at 82% of capacity for approximately 7.5 minutes, then 100% capacity (if needed) until demand is satisfied. Once demand is met, motor ramps down to stop.

**Option 4 -** Motor runs at 50% capacity for 30 seconds, then 82% capacity for approximately 7.5 minutes. If demand is not satisfied, motor runs at 100% capacity until demand is met. Once demand is met, motor runs at 50% capacity for 30 seconds, then ramps down to stop.

**Display LED** - Seven segment LED displays alphanumeric information related to diagnostics as well as system operation and status. Diagnostic codes are held in non-volatile memory, immune from power interruptions. Holds up to ten diagnostic codes in order of occurrence for recall on demand. Port on blower door allows for easy viewing.

Dehumidification (Active or Humiditrol® Option) - A jumper on the control board must be clipped to enable active dehumidification and/or operation with a Humiditrol Whole-Home Dehumidification System. A humidity controlling thermostat or device is also required. During a call for cooling, air volume is automatically reduced, forcing humidity removal by the air conditioner or heat pump system. After the humidity has reached the desired set-point the cooling air volume returns to its designed rate. A dehumidification signal from the thermostat reduces the cooling cfm to 70% of the requested cooling cfm.

**Electric Heat Operation -** Control for up to three electric heat stages.

**EvenHeater® Electric Heat Control -** Up to four electric heat stages are available when utilizing the EvenHeater® control feature furnished on the iComfort® Communicating control. EVENHEAT jumper position on control board determines target discharge air temperature of 85°F, 100°F, 115°F or 130°F. Default setting is 85°F. An optional Discharge Air Sensor is required.

**Heat Pump Operation -** A jumper on the control board must be clipped to enable operation with a single or two-stage heat pump. The indoor blower is started without delay when a call for heat is received.

**Two-Stage Cooling Operation** - A jumper on the control board must be clipped to enable operation with a two-stage air conditioner. The cooling blower speeds for first and second stage cooling will be dictated by the applicable DIP switch settings.

**Lennox System Operations Monitor Connection -** Monitors outdoor unit operation. (communicating mode).

**Continuous Blower Speed** - Adjustable continuous blower speed is a percentage of the high cooling speed selection. There are four selectable options (via DIP switch settings) of 28%, 38% (default setting), 70% and 100%.

**Transformer -** 70VA transformer furnished as standard. Factory installed in the unit control box.

**Accessory Terminal -** One 24 volt humidifier output is furnished for non-powered humidifiers. Control board is factory installed in the unit control box.

#### **CONTROLS** (continued)

#### **Optional Accessories**

# iComfort® S30 Ultra-Smart Thermostat (part of the iComfort® Residential Communicating Control System)

The iComfort® S30 Thermostat recognizes and connects to all iComfort® Communicating products

to automatically configure and control the heating/cooling system (based on user-specified settings) for the highest level of comfort, performance and efficiency. Also recognizes model and



serial number information for iComfort® Communicating products to simplify system setup.

Wi-Fi remote temperature monitoring and adjustment through a home wireless network for desktop PCs, laptops and apps for smartphones or tablets. Also displays service alerts and reminders.

Dealer Dashboard features online real-time monitoring of installed iComfort® Communicating systems.

A simple easy-to-use touchscreen allows complete system configuration. Scheduled maintenance alerts, system warnings and troubleshooting are also displayed on thermostat screen.

Easy to read 7 in. high definition color display (measured diagonally).

Conventional outdoor units (not iComfort® Communicating) can easily be added and controlled by the iComfort® S30 Thermostat.

Works with Amazon® Alexa-enabled products.

Installer setup screens allow quick and simple system configuration without a manual, Installer can also run tests on complete system or individual components for easy maintenance and troubleshooting.

Serial communications bus (RSBus), with less wiring than a conventional heating/cooling system, allows system communication. Uses 4-wire, 18-gauge standard thermostat wiring.

High Definition Color Display, Mag-Mount, Smart Hub Controller, wallplate (for retrofit installations) furnished for easy installation.

See the iComfort® S30 Thermostat Product Specifications bulletin in the Controls section for more information.

# iComfort Wi-Fi® Thermostat (part of the iComfort® Residential Communicating Control System)

The iComfort Wi-Fi® Thermostat recognizes and connects to all iComfort® Communicating products

to automatically configure and control the heating/cooling system (based on user-specified settings) for the highest level of comfort, performance and efficiency. Also



recognizes model and serial number information for iComfort® Communicating products to simplify system setup.

Wi-Fi remote temperature monitoring and adjustment through a home wireless network for desktop PCs, laptops and apps for smartphones or tablets. Also displays service alerts and reminders.

Dealer Dashboard features online real-time monitoring of installed iComfort® Communicating systems.

A simple easy-to-use touchscreen allows complete system configuration. Scheduled maintenance alerts, system warnings and troubleshooting are also displayed on thermostat screen.

Easy to read 7-inch color screen (measured diagonally). Conventional outdoor units (not iComfort® Communicating) can easily be added and controlled by the iComfort Wi-Fi® Thermostat.

Installer setup screens allow quick and simple system configuration without a manual, Installer can also run tests on complete system or individual components for easy maintenance and troubleshooting.

Serial communications bus (RSBus), with less wiring than a conventional heating/cooling system, allows system communication. Uses 4-wire, 18-gauge standard thermostat wiring.

See the iComfort Wi-Fi® Thermostat Product Specifications bulletin in the Controls section for more information.

#### **CONTROLS** (continued)

#### ComfortSense® 7500 Touchscreen Thermostat

Electronic 7-day, universal, multi-stage, programmable, touchscreen thermostat.

4 Heat/2 Cool.

Auto-changeover.

Duel-fuel control with optional outdoor sensor.

Controls dehumidification during cooling mode and humidification during heating mode.



Offers enhanced capabilities including humidification / dehumidification / dewpoint measurement and control, Humiditrol® control, and equipment maintenance reminders.

Easy-to-use, menu driven thermostat with a back-lit, LCD touchscreen.

See the ComfortSense® 7500 Product Specifications bulletin in the Controls section for more information.

#### **Remote Outdoor Temperature Sensor**

Used with the iComfort® Communicating Thermostats and ComfortSense® 7500 thermostat.

When installed outdoors, sensor allows thermostat to display outdoor temperature. Sensor is auto-detected when connected to thermostat.

NOTE - Sensor is required for Humiditrol® applications.

NOTE - The outdoor sensor is furnished as standard with iComfort® Communicating outdoor units, optional for conventional units.

#### **Thermostat**

Thermostat (iComfort® Communicating Thermostat or programmable/non-programmable) is not furnished with unit.

See Thermostat bulletins in Controls Section and Lennox Price Book for selection.

#### **Hot Water Heat Kit**

Air handler kit to control a third-party hot water boiler with a hot water heating coil installed downstream from the air handler.

Kit contains all necessary relays and plug-in wiring harness to control boiler.

NOTE - This kit is only approved for use in systems using either the ComfortSense® 7500 or iComfort® Communicating thermostats.

#### **BLOWER**

### **6** Variable-Speed Blower Motor

High efficiency multi-speed blower motor maintains specified air volumes up to a maximum of 0.8 in. w.g. total external static.

Multi-speed operation is achieved by the use of an ECM (Electronically Commutated Motor) motor.

Motor) motor.

Allows cooling ramping profiles (field selectable) for enhanced dehumidification.



Motor accelerates and decelerates gradually, reducing start-up and shut-down sound.

Leadless blower motor features simple plug-in connections.

Motor is controlled by the *iComfort*® communicating control that allows blower to operate at two of eight air volumes or speeds available.

Speeds may be field selected on *iComfort*® communicating control depending on size of air handler and air volume desired.

See blower performance tables.

# Blower Assembly

Lennox designed and built, direct drive blower.

Each blower is statically and dynamically balanced as an assembly before installation in the unit.

Blower motor is resiliently mounted to blower assembly. Blower slides out of cabinet for servicing.

#### **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 air handler.

#### **Circuit Breaker Models**

The following heaters are equipped with circuit breakers for overload and short circuit protection:

ECB38-4CB, -5CB, -6CB, -8CB, -9CB, -12.5CB, -15CB, -20CB and -25CB (208/240V-1ph)

ECB38-15CB, -20CB and -25CB (208/240V-3ph)

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.

#### **Optional Accessories**

#### **Circuit Breaker Cover Kit**

Flexible plastic cover protects circuit breaker.

Recommended in areas with high humidity or unconditioned areas to prevent nuisance tripping.

#### **Single-Point Power Source Control Box**

Control Box may be used with optional electric heat when single power supply is connected to multi-circuit electric heat.

Field installs external to the unit cabinet on either side or top.

Constructed of heavy gauge steel, baked enamel finish, prepunched mounting holes, electrical inlet knockouts, and terminal strip.

Removable cover provides easy access.

Dimensions (H x W x D) - 7 x 7 x 4 in.

#### **FILTER**

Tool-less access to filter area for quick and easy servicing.

Disposable 1-inch frame type filter furnished and factory installed in rails in cabinet.

See Specifications tables for sizes.

General Data	Model Number	CBA38MV-018/024	CBA38MV-030	CBA38MV-036
201101011 2010	Nominal tonnage	1.5 to 2	2.5	3
	Factory Installed Expansion Valve	12J18	12J18	12J19
	Refrigerant	R-410A	R-410A	R-410A
Connections	Suction / vapor (o.d.) line - sweat	3/4	3/4	3/4
in.	Liquid line (o.d.) - sweat	3/8	3/8	3/8
	Condensate drain - in. (fpt)	(2) 3/4	(2) 3/4	(2) 3/4
Indoor	Net face area - ft.2	4.4	5.0	5.0
Coil	Tube outside diameter - in.	3/8	3/8	3/8
	Number of rows	3	3	3
	Fins per inch	14	14	14
Blower Data	Wheel nominal diameter x width - in.	10 x 8	11 x 8	11 x 8
	Motor output - hp	1/2	1/2	1/2
Filters	<sup>1</sup> Number and size - in.	(1) 20 x 20 x 1	(1) 20 x 20 x 1	(1) 20 x 20 x 1
Shipping Data - 1 F	Package - Ibs.	141	154	159
<b>ELECTRICAL</b>	DATA			
	Voltage - phase - 60hz	208/230V-1ph	208/230V-1ph	208/230V-1ph
:	<sup>2</sup> Maximum overcurrent protection (unit only)	15	15	15
	<sup>3</sup> Minimum circuit ampacity (unit only)	5	5	5
CONTROLS		·		
Comfort® S30 The	rmostat	12U67	12U67	12U67
Comfort Wi-Fi® Th	ermostat	10F81	10F81	10F81
ComfortSense® 750	00 Thermostat	13H14	13H14	13H14
Remote Outdoor	Sensor (for dual fuel and Humiditrol®)	X2658	X2658	X2658
Discharge Tempe	rature Sensor	88K38	88K38	88K38
OPTIONAL A	CCESSORIES - ORDER SEPAR	ATELY		
Circuit Breaker Co	over Kit	82W01	82W01	82W01
Downflow Combus	stible Flooring Base	44K15	44K15	44K15
Electric Heat		See	Electric Heat Data tal	bles
Horizontal Suppor	t Frame Kit	56J18	56J18	56J18
Hot Water Heat Kit		90W84	90W84	90W84
Side Return Unit S	tand (Upflow)	45K31	45K32	45K32
Single-Point Powe	r Source Control Box	21H39	21H39	21H39
Wall Hanging Brac	ket Kit (Upflow)	45K30	45K30	45K30
High Performance	Economizer (Commercial Only)	10U53	10U53	10U53

<sup>&</sup>lt;sup>1</sup> Disposable frame type filter.

<sup>&</sup>lt;sup>5</sup> Optional for EvenHeater® electric heat operation and service diagnostics.

INSTALLATION CLEARANCES WITH ELECTRIC HEAT								
Cabinet	0 inch (0 mm)							
To Plenum	0 inch (0 mm)							
To Outlet Duct within 3 feet (914 mm)	0 inch (0 mm)							
Floor	See Note #1							
Service / Maintenance	See Note #2							

<sup>&</sup>lt;sup>1</sup> Units installed on combustible floors in the downflow position with electric heat require optional downflow combustible flooring base.

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

<sup>&</sup>lt;sup>2</sup> HACR type circuit breaker or fuse.

<sup>&</sup>lt;sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F.

<sup>&</sup>lt;sup>4</sup> Remote Outdoor Temperature Sensor is used with conventional (non-iComfort® Communicating) outdoor units (sensor is furnished with iComfort® Communicating outdoor units). Allows the thermostat to display outdoor temperature. Required in dual-fuel and Humiditrol® applications.

<sup>&</sup>lt;sup>2</sup> Front service access - 24 inches (610 mm) minimum.

General Data	Model Number	CBA38MV-042	CBA38MV-048	CBA38MV-060		
	Nominal tonnage	3.5	4	5		
	Factory Installed Expansion Valve	12J20	12J20	12J20		
	Refrigerant	R-410A	R-410A	R-410A		
Connections	Suction / vapor (o.d.) line - sweat	7/8	7/8	7/8		
in.	Liquid line (o.d.) - sweat	3/8	3/8	3/8		
	Condensate drain - in. (fpt)	(2) 3/4	(2) 3/4	(2) 3/4		
Indoor	Net face area - ft.2	7.22	7.22	8.33		
Coil	Tube outside diameter - in.	3/8	3/8	3/8		
	Number of rows	3	3	3		
	Fins per inch	14	14	14		
Blower Data V	Wheel nominal diameter x width - in.	12 x 9	12 x 9	12 x 9		
	Motor output - hp	1	1	1		
Filters	<sup>1</sup> Number and size - in.	(1) 20 x 24 x 1	(1) 20 x 24 x 1	(1) 20 x 24 x 1		
Shipping Data - 1 Pack	age - Ibs.	189	189	189 199		
ELECTRICAL DA	ATA .					
	Voltage - phase - 60hz	208/230V-1ph	208/230V-1ph	208/230V-1ph		
<sup>2</sup> Ma	ximum overcurrent protection (unit only)	15	15	15		
	<sup>3</sup> Minimum circuit ampacity (unit only)	10	10	10		
CONTROLS			'			
iComfort® S30 Thermos	stat	12U67	12U67	12U67		
iComfort Wi-Fi® Thermo	ostat	10F81	10F81	10F81		
ComfortSense® 7500 T	hermostat	13H14	13H14	13H14		
4 Remote Outdoor Sens	sor (for dual fuel and Humiditrol®)	X2658	X2658	X2658		
<sup>5</sup> Discharge Temperatu	re Sensor	88K38	88K38	88K38		
OPTIONAL ACC	ESSORIES - ORDER SEPARA	ATELY	'			
Circuit Breaker Cover	Kit	82W01	82W01	82W01		
Downflow Additive Bas	Se Se	44K15	44K15	44K15		
Electric Heat		See	e Electric Heat Data tal	oles		
Horizontal Support Fra	ıme Kit	56J18	56J18	56J18		
Hot Water Heat Kit		90W84	90W84	90W84		
Side Return Unit Stand	I (Upflow)	45K32	45K32	45K32		
Single-Point Power So		21H39	21H39	21H39		
Wall Hanging Bracket I		45K30	45K30	45K30		
	nomizer (Commercial Only)	10U53	10U53	10U53		

<sup>&</sup>lt;sup>1</sup> Disposable frame type filter.

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<sup>&</sup>lt;sup>5</sup> Optional for EvenHeater® electric heat operation and service diagnostics.

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	64W47								
	35 amp, 3 pole	41K14								
	40 amp, 3 pole	41K16								
	45 amp, 3 pole	18M86								
	50 amp, 3 pole	41K15								
	60 amp, 3 pole	41K17								

<sup>&</sup>lt;sup>2</sup> HACR type circuit breaker or fuse.

<sup>&</sup>lt;sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F.

<sup>&</sup>lt;sup>4</sup> Remote Outdoor Temperature Sensor is used with conventional (non-iComfort® Communicating) outdoor units (sensor is furnished with iComfort® Communicating outdoor units). Allows the thermostat to display outdoor temperature. Required in dual-fuel and Humiditrol® applications.

## CBA38MV-018/024 BLOWER PERFORMANCE

0 through 0.80 in. w.g. External Static Pressure Range

"AD IIIOTII	Jumper Speed Positions										
"ADJUST"		"HEAT"	' Speed		"COOL" Speed						
Jumper Setting	1	2	3	4	1	2	3	4			
- Cotting	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm			
+	460	685	885	1050	460	685	885	1050			
NORM	400	575	795	940	400	575	795	940			
-	365	515	715	830	365	515	715	830			

NOTES - The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.

First stage cooling air volume is 70% of COOL speed setting. Continuous fan speed is approximately 28%, 38%, 70% and 100% (Jumper selectable) of the same second-stage COOL speed selected, minimum 250 cfm.

Lennox iHarmony® Zoning System applications - minimum blower speed is 250 cfm.

#### CBA38MV-018/024 BLOWER MOTOR WATTS

Tap 3

Tap 4

Tap 1

Tap 2

Tap 3

Tap 4

NA

NA

NA

NA

NA

NA

AT "+" (Plus) SET	TING ("A	djust" Jum										
Jumper			Motor Watts @ Various External Static Pressures - in. wg.									
Speed Position	ons	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8		
"HEAT" Speed	Tap 1	NA	32	44	58	71	90	104	131	145		
	Tap 2	NA	56	85	103	121	139	165	190	207		
	Tap 3	NA	105	131	161	183	202	241	263	292		
	Tap 4	NA	164	194	220	253	277	310	330	360		
"COOL" Speed	Tap 1	NA	32	44	58	71	90	104	131	145		
	Tap 2	NA	56	85	103	121	139	165	190	207		
	Tap 3	NA	105	131	161	183	202	241	263	292		
	Tap 4	NA	164	194	220	253	277	310	330	360		
AT "NORM" SETT	ING ("Ad	just" Jump	er at NORI	M Setting)								
Jumper		Motor Watts @ Various External Static Pressures - in. wg.										
Speed Position	ons	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8		
"HEAT" Speed	Tap 1	NA	27	42	52	69	79	99	114	133		
	Tap 2	NA	44	59	77	95	117	137	152	183		
	Tap 3	NA	79	108	126	159	181	199	231	252		
	Tap 4	NA	117	145	167	197	228	254	273	313		
"COOL" Speed	Tap 1	NA	27	42	52	69	79	99	114	133		
	Tap 2	NA	44	59	77	95	117	137	152	183		
	Tap 3	NA	79	108	126	159	181	199	231	252		
	Tap 4	NA	117	145	167	197	228	254	273	313		
AT "–" (Minus) SE	TTING ("	Adjust" Ju	mper at "-	" Setting)								
Jumper			M	lotor Watts	@ Various	External S	tatic Press	ures - in. w	g.	-		
Speed Positi	ons	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8		
"HEAT" Speed	Tap 1	NA	24	40	48	60	76	94	106	117		
	Tap 2	NA	37	48	68	93	106	129	145	157		
			+		+	+	-	+	+	$\leftarrow$		

"COOL" Speed

#### **CBA38MV-030 BLOWER PERFORMANCE**

0 through 0.80 in. w.g. External Static Pressure Range

"ADJUST"	Jumper Speed Positions									
		"HEAT"	'Speed		"COOL" Speed					
Jumper Setting	1	2	3	4	1	2	3	4		
ootting	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm		
+	630	875	1095	1315	630	875	1095	1315		
NORM	545	785	995	1195	545	785	995	1195		
	510	700	890	1075	510	700	890	1075		

NOTES - The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.

 $First stage \ cooling \ air \ volume \ is \ 70\% \ of \ COOL \ speed \ setting. \ Continuous \ fan \ speed \ is \ approximately \ 28\%, \ 38\%, \ 70\% \ and \ 100\% \ (Jumper \ selectable) \ of \ the$ same second-stage COOL speed selected, minimum 250 cfm.

Lennox iHarmony® Zoning System applications - minimum blower speed is 250 cfm.

NA

Tap 4

133

157

185

207

231

258

285

#### **CBA38MV-030 BLOWER MOTOR WATTS**

AT "+" (Plus) SET	TING ("A	djust" Jum	per at "+"	Setting)						
Jumper			M	otor Watts	@ Various	External S	tatic Press	ures - in. w	g.	
Speed Positi	ons	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT" Speed	Tap 1	NA	35	55	76	95	116	138	164	179
	Tap 2	NA	80	100	122	148	171	194	214	239
	Tap 3	NA	140	167	189	216	237	273	291	322
	Tap 4	NA	231	262	295	328	355	377	412	441
"COOL" Speed	Tap 1	NA	35	55	76	95	116	138	164	179
	Tap 2	NA	80	100	122	148	171	194	214	239
	Tap 3	NA	140	167	189	216	237	273	291	322
	Tap 4	NA	231	262	295	328	355	377	412	441
AT "NORM" SETT	ING ("Ad	just" Jump	er at NORI	/I Setting)						
Jumper			M	otor Watts	@ Various	External S	tatic Press	ures - in. w	g.	
Speed Positi	ons	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT" Speed	Tap 1	NA	36	48	61	80	92	114	124	139
	Tap 2	NA	61	84	104	122	143	169	186	210
	Tap 3	NA	109	134	153	178	203	231	254	281
	Tap 4	NA	174	205	238	264	284	310	338	372
"COOL" Speed	Tap 1	NA	36	48	61	80	92	114	124	139
	Tap 2	NA	61	84	104	122	143	169	186	210
	Tap 3	NA	109	134	153	178	203	231	254	281
	Tap 4	NA	174	205	238	264	284	310	338	372
AT "-" (Minus) SE	TTING ("	Adjust" Ju	mper at "-	" Setting)						
Jumper			. M	otor Watts	@ Various	External S	tatic Press	ures - in. w	g.	
Speed Positi	ons	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT" Speed	Tap 1	NA	29	43	58	77	88	102	119	134
	Tap 2	NA	44	64	89	106	125	157	174	202
	Tap 3	NA	85	104	129	152	176	199	219	239
	Tap 4	NA	133	157	185	207	231	258	285	317
"COOL" Speed	Tap 1	NA	29	43	58	77	88	102	119	134
	Tap 2	NA	44	64	89	106	125	157	174	202
	Tap 3	NA	85	104	129	152	176	199	219	239

317

#### **CBA38MV-036 BLOWER PERFORMANCE**

0 through 0.80 in. w.g. External Static Pressure Range

"ADJUST"	Jumper Speed Positions									
Jumper		"HEAT"	Speed		"COOL" Speed					
Setting	1	2	3	4	1	2	3	4		
	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm		
+	920	1255	1410	1580	920	1255	1410	1580		
NORM	815	1165	1315	1435	815	1165	1315	1435		
	720	1010	1155	1285	720	1010	1155	1285		

 $NOTES-The\ effect\ of\ static\ pressure,\ filter\ and\ electric\ heater\ resistance\ is\ included\ in\ the\ air\ volumes\ listed.$ 

First stage cooling air volume is 70% of COOL speed setting. Continuous fan speed is approximately 28%, 38%, 70% and 100% (Jumper selectable) of the same second-stage COOL speed selected, minimum 250 cfm.

Lennox iHarmony® Zoning System applications - minimum blower speed is 250 cfm.

#### **CBA38MV-036 BLOWER MOTOR WATTS**

AT "+" (Plus) SET	AT "+" (Plus) SETTING ("Adjust" Jumper at "+" Setting)										
Jumper		Motor Watts @ Various External Static Pressures - in. wg.									
Speed Positions		0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	8.0	
"HEAT" Speed	Tap 1	n/a	88	108	132	161	190	208	234	248	
	Tap 2	n/a	174	212	237	269	304	328	370	385	
	Tap 3	n/a	232	282	314	341	374	410	434	473	
	Tap 4	n/a	332	365	409	438	480	520	546	576	
"COOL" Speed	Tap 1	n/a	88	108	132	161	190	208	234	248	
	Tap 2	n/a	174	212	237	269	304	328	370	385	
	Tap 3	n/a	232	282	314	341	374	410	434	473	
	Tap 4	n/a	332	365	409	438	480	520	546	576	

#### AT "NORM" SETTING ("Adjust" Jumper at NORM Setting)

Jumper		Motor Watts @ Various External Static Pressures - in. wg.									
Speed Positi	ons	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	
"HEAT" Speed	Tap 1	n/a	70	89	113	137	155	188	199	233	
	Tap 2	n/a	145	168	201	221	258	279	316	348	
	Tap 3	n/a	200	223	265	293	316	359	374	403	
	Tap 4	n/a	259	291	309	351	390	429	447	488	
"COOL" Speed	Tap 1	n/a	70	89	113	137	155	188	199	233	
	Tap 2	n/a	145	168	201	221	258	279	316	348	
	Tap 3	n/a	200	223	265	293	316	359	374	403	
	Tap 4	n/a	259	291	309	351	390	429	447	488	

#### AT "-" (Minus) SETTING ("Adjust" Jumper at "-" Setting)

Jumper			M	otor Watts	@ Various	<b>External S</b>	tatic Press	ures - in. w	g.	
Speed Positi	ons	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT" Speed	Tap 1	n/a	50	78	97	119	144	163	185	199
	Tap 2	n/a	105	130	156	177	212	239	264	280
	Tap 3	n/a	144	167	197	224	255	281	316	340
	Tap 4	n/a	191	229	253	283	310	339	366	398
"COOL" Speed	Tap 1	n/a	50	78	97	119	144	163	185	199
	Tap 2	n/a	105	130	156	177	212	239	264	280
	Tap 3	n/a	144	167	197	224	255	281	316	340
	Tap 4	n/a	191	229	253	283	310	339	366	398

#### **CBA38MV-042 BLOWER PERFORMANCE**

0 through 0.80 in. w.g. External Static Pressure Range

"ADJUST"				Jumper Spe	ed Positions			
Jumper		"HEAT"	Speed			"COOL"	' Speed	
Setting	1	2	3	4	1	2	3	4
	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
+	1100	1320	1540	1760	1100	1320	1540	1760
NORM	1000	1200	1400	1600	1000	1200	1400	1600
	900	1080	1260	1440	900	1080	1260	1440

NOTES - The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.

First stage cooling air volume is 70% of COOL speed setting. Continuous fan speed is approximately 28%, 38%, 70% and 100% (Jumper selectable) of the same second-stage COOL speed selected, minimum 450 cfm.

Lennox iHarmony® Zoning System applications - minimum blower speed is 450 cfm.

#### **CBA38MV-042 BLOWER MOTOR WATTS**

Tap 2

Tap 3

Tap 4

NA

NA

NA

CDAJONIV-042 DL										
AT "+" (Plus) SET	TING ("A	djust" Jum	-	<u></u>						
Jumper			M	otor Watts	@ Various	External S	tatic Press	ures - in. w	g.	
Speed Positi	ons	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT" Speed	Tap 1	NA	121	154	177	199	233	252	283	315
	Tap 2	NA	189	221	247	282	310	344	370	403
	Tap 3	NA	283	312	341	382	422	454	481	515
	Tap 4	NA	407	446	488	528	567	583	646	671
"COOL" Speed	Tap 1	NA	121	154	177	199	233	252	283	315
	Tap 2	NA	189	221	247	282	310	344	370	403
	Tap 3	NA	283	312	341	382	422	454	481	515
	Tap 4	NA	407	446	488	528	567	583	646	671
AT "NORM" SETT	ING ("Ad	just" Jump	er at NORI	/I Setting)						
Jumper			M	otor Watts	@ Various	External S	tatic Press	ures - in. w	g.	
Speed Positi	ons	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT" Speed	Tap 1	NA	104	134	153	184	207	236	257	286
	Tap 2	NA	142	171	203	234	253	298	327	351
	Tap 3	NA	212	240	269	308	337	371	408	429
	Tap 4	NA	309	341	367	406	441	476	516	559
"COOL" Speed	Tap 1	NA	104	134	153	184	207	236	257	286
	Tap 2	NA	142	171	203	234	253	298	327	351
	Tap 3	NA	212	240	269	308	337	371	408	429
	Tap 4	NA	309	341	367	406	441	476	516	559
AT "-" (Minus) SE	TTING ("	Adjust" Ju	mper at "-'	" Setting)						
Jumper			M	otor Watts	@ Various	External S	tatic Press	ures - in. w	g.	
Speed Positi	ons	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT" Speed	Tap 1	NA	78	104	126	155	175	199	209	247
	Tap 2	NA	115	139	168	196	218	247	274	309
	Tap 3	NA	165	192	220	247	290	316	360	376
	Tap 4	NA	237	269	301	327	356	407	430	481
"COOL" Speed	Tap 1	NA	78	104	126	155	175	199	209	247
			1							

#### **CBA38MV-048 BLOWER PERFORMANCE**

0 through 0.80 in. w.g. External Static Pressure Range

				Jumper Spe	ed Positions			
"ADJUST"		"HEAT"	Speed			"COOL"	' Speed	
Jumper Setting	1	2	3	4	1	2	3	4
	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
+	1670	1870	2100	2200	1670	1870	2100	2200
NORM	1460	1670	1870	2100	1460	1670	1870	2100
_	1230	1410	1600	1800	1230	1410	1600	1800

NOTES - The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.

First stage cooling air volume is 70% of COOL speed setting. Continuous fan speed is approximately 28%, 38%, 70% and 100% (Jumper selectable) of the same second-stage COOL speed selected, minimum 450 cfm.

Lennox iHarmony® Zoning System applications - minimum blower speed is 450 cfm.

#### CBA38MV-048 BLOWER MOTOR WATTS

CBA38MV-048 BL AT "+" (Plus) SET				Sotting)										
Jumper	TING ( A	ujust Juli	-	lotor Watts	@ Various	External S	tatic Press	ures - in. w	g.					
Speed Positi	ons	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8				
"HEAT" Speed	Tap 1	NA	335	374	399	436	495	518	572	611				
	Tap 2	NA	459	502	537	586	644	689	724	759				
	Tap 3	NA	668	738	778	845	881	957	996	1019				
	Tap 4	NA	808	865	922	975	1003	1025	1017	987				
"COOL" Speed	Tap 1	NA	335	374	399	436	495	518	572	611				
	Tap 2	NA	459	502	537	586	644	689	724	759				
	Tap 3	NA	668	738	778	845	881	957	996	1019				
	Tap 4	NA	808	865	922	975	1003	1025	1017	987				
AT "NORM" SETT	ING ("Ad	just" Jump	er at NORI	M Setting)										
Jumper														
Speed Position	Speed Positions         0         0.1         0.2         0.3         0.4         0.5         0.6         0.7													
"HEAT" Speed	Tap 1	NA	225	264	289	336	358	396	432	464				
	Tap 2	NA	320	374	398	434	484	523	558	610				
	Tap 3	NA	451	498	529	583	619	682	721	768				
	Tap 4	NA	643	699	731	795	848	919	966	998				
"COOL" Speed	Tap 1	NA	225	264	289	336	358	396	432	464				
	Tap 2	NA	320	374	398	434	484	523	558	610				
	Tap 3	NA	451	498	529	583	619	682	721	768				
	Tap 4	NA	643	699	731	795	848	919	966	998				
AT "–" (Minus) SE	TTING ("	Adjust" Ju	mper at "-	" Setting)										
Jumper			N	lotor Watts	@ Various	External S	tatic Press	ures - in. w	g.					
Speed Positi	ons	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8				
"HEAT" Speed	Tap 1	NA	146	178	207	227	265	299	317	359				
	Tap 2	NA	207	243	272	305	345	371	419	438				
	Tap 3	NA	290	347	383	412	447	486	525	548				
	Tap 4	NA	410	440	491	528	572	613	651	694				
"COOL" Speed	Tap 1	NA	146	178	207	227	265	299	317	359				
	Tap 2	NA	207	243	272	305	345	371	419	438				
	Tap 3	NA	290	347	383	412	447	486	525	548				
	Tap 4	NA	410	440	491	528	572	613	651	694				

#### **CBA38MV-060 BLOWER PERFORMANCE**

0 through 0.80 in. w.g. External Static Pressure Range

"ADJUST"				Jumper Spe	ed Positions			
Jumper		"HEAT"	Speed			"COOL"	' Speed	
Setting	1	2	3	4	1	2	3	4
	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
+	1695	1890	2140	2210	1695	1890	2140	2210
NORM	1525	1680	1850	2075	1525	1680	1850	2075
-	1300	1450	1630	1800	1300	1450	1630	1800

NOTES - The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.

First stage cooling air volume is 70% of COOL speed setting. Continuous fan speed is approximately 28%, 38%, 70% and 100% (Jumper selectable) of the same second-stage COOL speed selected, minimum 450 cfm.

Lennox iHarmony® Zoning System applications - minimum blower speed is 450 cfm.

#### **CBA38MV-060 BLOWER MOTOR WATTS**

Tap 2

Tap 3

Tap 4

NA

NA

NA

CDA30WV-000 BL	OVVEIX IVI	OTOK WA	13							
AT "+" (Plus) SET	TING ("A	djust" Jum	per at "+"	Setting)						
Jumper			M	otor Watts	@ Various	External S	tatic Press	ures - in. w	g.	
Speed Positi	ons	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT" Speed	Tap 1	NA	334	368	412	449	491	532	557	603
	Tap 2	NA	462	511	549	601	640	681	720	762
	Tap 3	NA	670	710	765	820	868	921	963	1005
	Tap 4	NA	757	810	853	909	961	1001	1034	1026
"COOL" Speed	Tap 1	NA	334	368	412	449	491	532	557	603
	Tap 2	NA	462	511	549	601	640	681	720	762
	Tap 3	NA	670	710	765	820	868	921	963	1005
	Tap 4	NA	757	810	853	909	961	1001	1034	1026
AT "NORM" SETT	ING ("Ad	just" Jump	er at NORI	/I Setting)						
Jumper			M	otor Watts	@ Various	External S	tatic Press	ures - in. w	g.	
Speed Positi	ons	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT" Speed	Tap 1	NA	245	285	319	350	398	425	462	497
	Tap 2	NA	330	368	414	443	469	505	558	600
	Tap 3	NA	442	497	515	554	603	643	685	735
	Tap 4	NA	600	653	701	752	798	842	889	935
"COOL" Speed	Tap 1	NA	245	285	319	350	398	425	462	497
	Tap 2	NA	330	368	414	443	469	505	558	600
	Tap 3	NA	442	497	515	554	603	643	685	735
	Tap 4	NA	600	653	701	752	798	842	889	935
AT "-" (Minus) SE	TTING ("	Adjust" Ju	mper at "-'	' Setting)						
Jumper			M	otor Watts	@ Various	External S	tatic Press	ures - in. w	g.	
Speed Positi	ons	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT" Speed	Tap 1	NA	181	204	235	261	304	323	357	383
	Tap 2	NA	218	259	283	315	357	390	422	457
	Tap 3	NA	300	333	365	395	443	476	527	559
	Tap 4	NA	400	430	470	515	543	592	639	678
"COOL" Speed	Tap 1	NA	181	204	235	261	304	323	357	383

ELECTRIC HE	EAT DATA - CBA38MV	-018/0	24							
	Model Number	No. of Stages	Volts Input	kW Input	¹Btuh Input	<sup>2</sup> Blower Motor Full Load Amps	<sup>3</sup> Minimum Circuit Ampacity	<sup>5</sup> Maximum Overcurrent Protection		
SINGLE PHASE										
4 kW	ECB38-4 (16V86)	1	208	3.0	10,250	3.9	23	425		
4 lbs.	Terminal Block ECB38-4CB (16V87)		220	3.4	11,450	4.0	24	425		
	30A Circuit breaker		230	3.7	12,550	4.0	25	425		
			240	4.0	13,650	4.0	26	30		
5 kW	ECB38-5 (16V88)	1	208	3.8	12,800	4.0	28	430		
4 lbs.	Terminal Block ECB38-5CB (16V89)		220	4.2	14,300	4.0	29	430		
	35A Circuit breaker		230	4.6	15,700	4.0	30	430		
			240	5.0	17,100	4.0	31	35		
6 kW	ECB38-6 (16V90)	1	208	4.5	15,400	4.0	32	4 3 5		
4 lbs.	Terminal Block ECB38-6CB (16V91)		220	5.0	17,100	4.0	33	4 3 5		
	40A Circuit breaker		230	5.5	18,800	4.0	35	4 3 5		
			240	6.0	20,500	4.0	36	40		
8 kW	ECB38-8 (16V92)	2	208	6.0	20,500	4.0	41	445		
5 lbs.	Terminal Block ECB38-8CB (16V93)		220	6.7	22,900	4.0	43	445		
	50A Circuit breaker				230	7.3	25,100	4.0	45	445
			240	8.0	27,300	4.0	47	50		
9 kW	ECB38-9CB (16V94)	2	208	6.8	23,100	4.0	46	4 50		
5 lbs.	60A Circuit breaker		220	7.6	25,800	4.0	48	4 50		
			230	8.3	28,200	4.0	50	4 50		
			240	9.0	30,700	4.0	52	60		

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

<sup>&</sup>lt;sup>1</sup> Electric heater capacity only - does not include additional blower motor heat capacity.

<sup>&</sup>lt;sup>2</sup> Amps shown are for blower motor only.

<sup>&</sup>lt;sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F.

<sup>&</sup>lt;sup>4</sup> Bold text indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size noted. See Replacement Circuit Breakers on Page 9.

<sup>&</sup>lt;sup>5</sup> HACR type circuit breaker or fuse.

	Model Number	No. of		kW	¹Btuh	<sup>2</sup> Blower Motor Full	Cir	imum cuit acity	Overc	imum urrent ection		e Point Source
		Stages	Input	Input	Input	Load Amps	CkT 1	Ckt 2	CkT 1	Ckt 2	<sup>3</sup> Minimum Circuit Ampacity	Maximum Overcurrent Protection
SINGLE	PHASE								,	,		
4 kW	ECB38-4 (16V86)	1	208	3.0	10,250	3.9	23		4 25		23	25
4 lbs.	Terminal Block ECB38-4CB (16V87)		220	3.4	11,450	3.9	24		<sup>4</sup> 25		24	25
	30A Circuit breaker		230	3.7	12,550	3.9	25		4 25		25	25
			240	4.0	13,650	3.9	26		30		26	30
5 kW	ECB38-5 (16V88)	1	208	3.8	12,800	3.9	28		4 30		28	30
4 lbs.	Terminal Block ECB38-5CB (16V89)		220	4.2	14,300	3.9	29		4 30		29	30
	35A Circuit breaker		230	4.6	15,700	3.9	30		4 30		30	30
			240	5.0	17,100	3.9	31		35		31	35
6 kW	ECB38-6 (16V90)	1	208	4.5	15,400	3.9	32		4 35		32	35
4 lbs.	Terminal Block ECB38-6CB (16V91)		220	5.0	17,100	3.9	33		4 35		33	35
	40A Circuit breaker		230	5.5	18,800	3.9	35		435		35	35
			240	6.0	20,500	3.9	36		40		36	40
8 kW	ECB38-8 (16V92)	2	208	6.0	20,500	3.9	41		445		41	45
5 lbs.	Terminal Block ECB38-8CB (16V93)		220	6.7	22,900	3.9	43		445		43	45
	50A Circuit breaker		230	7.3	25,100	3.9	45		445		45	45
			240	8.0	27,300	3.9	47		50		47	50
9 kW	ECB38-9CB (16V94)	2	208	6.8	23,100	3.9	46		4 50		46	50
5 lbs.	60A Circuit breaker		220	7.6	25,800	3.9	48		4 50		48	50
			230	8.3	28,200	3.9	50		<sup>4</sup> 50		50	50
			240	9.0	30,700	3.9	52		60		52	60
	ECB38-12.5CB (16V95)	2	208	9.4	32,000	3.9	24	38	<sup>4</sup> 25	⁴40	61	70
10 lbs.	(1) 30A and (1) 45A Circuit breaker		220	10.5	35,800	3.9	25	40	<sup>4</sup> 25	<sup>4</sup> 40	65	70
	(1) TOA OIICUIL DIEAREI		230	11.5	39,200	3.9	26	42	30	45	67	70
			240	12.5	42,600	3.9	27	44	30	45	71	80
15 kW	ECB38-15CB (16V96)	2	208	11.3	38,400	3.9	28	45	430	445	72	80
12 lbs.	(1) 35A and (1) 60A Circuit breaker		220	12.6	43,000	3.9	29	48	430	4 50	76	80
	(1) OUA CITCUIT DIEAKEI		230	13.8	47,000	3.9	30	50	430	4 50	80	80
			240	15.0	51,200	3.9	31	52	35	60	83	90

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

<sup>&</sup>lt;sup>1</sup> Electric heater capacity only - does not include additional blower motor heat capacity.

<sup>&</sup>lt;sup>2</sup> Amps shown are for blower motor only.

<sup>&</sup>lt;sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F.

<sup>&</sup>lt;sup>4</sup> Bold text indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size noted. See Replacement Circuit Breakers on Page 9.

<sup>&</sup>lt;sup>5</sup> HACR type circuit breaker or fuse.

ELEC	CTRIC HEAT DATA	4 - CB	A381	MV-O	36	ı						
	Model Number	No. of		kW	¹Btuh	<sup>2</sup> Blower Motor	Cir	imum cuit acity	Overc	imum urrent ection	Powe	le Point r Source
SINGLE	E PHASE	Stages	Input	Input	Input	Full Load Amps	Ckt 1	Ckt 2	Ckt 1	Ckt 2	<sup>3</sup> Minimum Circuit Ampacity	Overcurrent
5 kW	ECB38-5 (16V88)	1	208	3.8	12,800	5.2	29		4 30		29	30
4 lbs.	Terminal Block	'	220	4.2	14,300	5.2	30		4 30		30	35
	ECB38-5CB (16V89)		230	4.6	15,700	5.2	32		35		32	35
	35A Circuit breaker		240	5.0	17,100	5.2	33		35		33	35
6 kW	ECB38-6 (16V90)	1	208	4.5	15,400	5.2	34		4 35		34	35
4 lbs.	Terminal Block	'	220	5.0	17,100	5.2	35		435		35	35
	ECB38-6CB (16V91)		230	5.5	18,800	5.2	36		40		36	40
	40A Circuit breaker		240	6.0	20,500	5.2	38		40		38	40
8 kW	ECB38-8 (16V92)	2	208	6.0	20,500	5.2	43		445		43	45
5 lbs.	Terminal Block	_	220	6.7	22,900	5.2	45		445		45	45
0	ECB38-8CB (16V93)		230	7.3	25,100	5.2	46		50		46	50
	50A Circuit breaker		240	8.0	27,300	5.2	48		50		48	50
9 kW	ECB38-9CB (16V94)	2	208	6.8	23,100	5.2	47		4 50		47	50
5 lbs.	60A Circuit breaker		220	7.6	25,800	5.2	50		4 50		50	50
			230	8.3	28,200	5.2	52		60		52	60
			240	9.0	30,700	5.2	53		60		53	60
12 5 kW	ECB38-12.5CB (16V95)	2	208	9.4	32,000	5.2	25	38	425	440	63	70
10 lbs.	(1) 30A and	_	220	10.5	35,800	5.2	26	40	30	440	66	70
	(1) 45A Circuit breaker		230	11.5	39,200	5.2	27	42	30	45	69	70
			240	12.5	42,600	5.2	28	44	30	45	72	80
15 kW	ECB38-15CB (16V96)	2	208	11.3	38,400	5.2	29	45	430	445	74	80
12 lbs.	(1) 35A and		220	12.6	43,000	5.2	30	48	430	450	78	80
	(1) 60A Circuit breaker		230	13.8	47,000	5.2	32	50	35	450	82	90
	,		240	15.0	51,200	5.2	33	52	35	60	85	90
20 kW	ECB38-20CB (16V97)	2	208	15.0	51,200	5.2	47	50	4 50	4 50	97	100
19 lbs.	(2) 60A Circuit breaker		220	16.8	57,300	5.2	49	53	4 50	60	102	110
	(=) 00/10/10/10/10/10/10/10/10/10/10/10/10/1		230	18.4	62,700	5.2	51	55	60	60	106	110
			240	20.0	68,200	5.2	53	57	60	60	111	125
THREE	DHASE		240	20.0	00,200	5.2	55	01	00	00	1111	125
8 kW	ECB38-8 (16V99)	1	208	6.0	20,500	5.2	28		30		28	30
5 lbs.	Terminal Block	'	220	6.7	22,900	5.2	29		30		29	30
			230	7.3	25,100	5.2	30		30		30	30
			240	8.0	27,300	5.2	30		30		30	35
10 kW	ECB38-10 (16W67)	1	208	7.5	25,600	5.2	33		35		33	35
6 lbs.	Terminal Block	'	220	8.4	28,700	5.2	35		35		35	35
0			230	9.2	31,400	5.2	36		40		36	40
			240	10.0	34,100	5.2	37		40		37	40
15 kW	ECB38-15CB (16W68)	1	208	11.3	38,400	5.2	46		50		46	50
12 lbs.	50A Circuit breaker	'	220	12.6	43,000	5.2	48		50		48	50
150.	Co. Con can broaker		230	13.5	47,000	5.2	50		50		50	60
			240	15.0	51,200	5.2	52		<sup>4</sup> <b>60</b>		50	60
20 P/W	ECD39 20CD (46)A(60)	2						26		420		
<b>20 kW</b> 19 lbs.	ECB38-20CB <b>(16W69)</b> (2) 35A Circuit breaker	2	208 220	15.0 16.8	51,200	5.2	33	26	35	<sup>4</sup> 30	59 62	60
10 103.	(2) John Ontone Dieakel				57,300	5.2	35	28	35 4 <b>40</b>	430	-	70
			230	18.4	62,700	5.2	36	29			65	70
	Circuit 1 Minimum Circuit Ampaci	<u> </u>	240	20.0	68,200	5.2	37	30	<sup>4</sup> 40	35	67	70

 $<sup>{\</sup>tt NOTE-Circuit~1~Minimum~Circuit~Ampacity~includes~the~Blower~Motor~Full~Load~Amps}.$ 

<sup>&</sup>lt;sup>1</sup> Electric heater capacity only - does not include additional blower motor heat capacity.

<sup>&</sup>lt;sup>2</sup> Amps shown are for blower motor only.

<sup>&</sup>lt;sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F.

<sup>&</sup>lt;sup>4</sup> Bold text indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size noted. See Replacement Circuit Breakers on Page 9.

 $<sup>^{\</sup>rm 5}$  HACR type circuit breaker or fuse.

		No. of	Volts	kW	¹ Btuh	<sup>2</sup> Blower Motor		/linimu Circui mpaci	t	Ov	laximı ercurr otecti	ent		le Point r Source
	Model Number	Stages				Full Load Amps		Ckt 2					Circuit	<sup>5</sup> Maximum Overcurrent Protection
SINGL	E PHASE													
4 kW	ECB38-4 (16V86)		208	3.0	10,250	6.9	27			4 30			27	30
4 lbs.	Terminal Block		220	3.4	11,450	7.4	28			4 30			28	30
	ECB38-4CB (16V87)		230	3.7	12,550	7.4	28			4 30			28	30
	35A Circuit breaker		240	4.0	13,650	7.4	29			4 30			29	30
5 kW	ECB38-5 (16V88)	1	208	3.8	12,800	7.4	31			35			31	35
4 lbs.	Terminal Block		220	4.2	14,300	7.4	32			35			32	35
	ECB38-5CB (16V89)		230	4.6	15,700	7.4	34			35			34	35
	35A Circuit breaker		240	5.0	17,100	7.4	35			35			35	35
6 kW	ECB38-6 (16V90)	1	208	4.5	15,400	7.4	36			40			36	40
4 lbs.	Terminal Block		220	5.0	17,100	7.4	37			40			37	40
	ECB38-6CB (16V91)		230	5.5	18,800	7.4	39			40			39	40
	40A Circuit breaker		240	6.0	20,500	7.4	40			40			40	40
8 kW	ECB38-8 (16V92)	2	208	6.0	20,500	7.4	45			445			45	45
5 lbs.	Terminal Block		220	6.7	22,900	7.4	47			50			47	50
	ECB38-8CB (16V93)		230	7.3	25,100	7.4	48			50			48	50
	50A Circuit breaker		240	8.0	27,300	7.4	50			50			50	60
9 kW	ECB38-9CB (16V94)	2	208	6.8	23,100	7.4	49			450			49	50
5 lbs.	60A Circuit breaker		220	7.6	25,800	7.4	52			60			52	60
00.			230	8.3	28,200	7.4	54			60			54	60
			240	9.0	30,700	7.4	56			60			56	60
12 E L/M	V ECB38-12.5CB (16V95)	2	208	9.4	32,000	7.4	27	38		30	440		65	70
10 lbs.	(1) 30A and		220	10.5	35,800	7.4	29	40		30	440		68	70
10 103.	(1) 45A Circuit breaker		230	11.5	39,200	7.4	29	42		30	45		71	+
	(1) 10/10/10/10/10		240	12.5	42,600	7.4	31	44		435	45		74	80
15 kW	ECD20 45CD (46)(06)	2			· ·		31			35	45 4 <b>45</b>		ļ	80
12 lbs.	ECB38-15CB <b>(16V96)</b> (1) 35A and	2	208	11.3	38,400	7.4		45			_		76	80
12 103.	(1) 60A Circuit breaker		220	12.6	43,000	7.4	32	48		35	450		80	90
	(1) oort ollealt breaker		230		47,000	7.4	34	50		35	4 50		84	90
00.1104	E0000 0000 (40) (00)		240		51,200	7.4	35	52		35	60		87	90
20 kW	ECB38-20CB (16V97)	2	208		51,200	7.4	49	50		4 50	4 50		99	100
19 lbs.	(2) 60A Circuit breaker		220		57,300		52	53		60	60		104	110
			230		62,700	7.4	54	55		60	60		108	110
TUDEE	PUACE		240	20.0	68,200	7.4	56	57		60	60		113	125
	PHASE		000	0.0	00.500	7.4	00	1	1	0.5	I	1	00	0.5
8 kW	ECB38-8 (16V99)	1	208	6.0	20,500	7.4	30			35			30	35
5 lbs.	Terminal block		220	6.7	22,900	7.4	31			35			31	35
			230	7.3	25,100	7.4	32			35			32	35
			240	8.0	27,300	7.4	33			35			33	35
10 kW	ECB38-10 (16W67)	1	208	7.5	25,600	7.4	35			40			35	40
6 lbs.	Terminal block		220	8.4	28,700	7.4	37			40			37	40
			230	9.2	31,400	7.4	38			40			38	40
			240		34,100	7.4	39			40			39	40
15 kW	ECB38-15CB (16W68)	1	208		38,400	7.4	48			50			48	35
12 lbs.	50A Circuit breaker		220		43,000	7.4	51			<sup>4</sup> 60			51	35
			230		47,000	7.4	52			460			52	35
			240		51,200	7.4	54			4 60			54	35
20 kW	ECB38-20CB (16W69)		208	15.0	51,200	7.4	35	26		440	4 30		61	70
19 lbs.	(2) 35A Circuit breaker		220	16.8	57,300	7.4	37	28		440	430		64	70
			230	18.4	62,700	7.4	38	29		440	4 30		67	70
			240	20.0	68,200	7.4	39	30		440	35		69	70

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

<sup>&</sup>lt;sup>1</sup> Electric heater capacity only - does not include additional blower motor heat capacity.

<sup>&</sup>lt;sup>2</sup> Amps shown are for blower motor only.

<sup>&</sup>lt;sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F.

<sup>&</sup>lt;sup>4</sup> Bold text indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size noted. See Replacement Circuit Breakers on Page 9.

 $<sup>^{\</sup>rm 5}$  HACR type circuit breaker or fuse.

CLE	CTRIC HEAT DATA	4 - CE	A38	IAI A.	<b>U48</b>	1	3 8				10::		I	
						<sup>2</sup> Blower		∕linimι Circui		1	/laxim ercuri		Sing	le Point
		No. of	Volts	kW	¹ Btuh	Motor		mpaci			rotecti		Powe	r Source
	Model Number	Stages				Full		IIIPaci	l y		Olecti		<sup>3</sup> Minimum	<sup>5</sup> Maximum
		ougoo	pat	mpat	pat	Load	Ckt 1	Ckt 2	Ckt 3	Ckt 1	Ckt 2	Ckt 3	Circuit	Overcurrent
						Amps							Ampacity	Protection
	E PHASE													
4 kW	ECB38-4 (16V86)	1	208	3.0	10,250	6.9	27			430			27	30
4 lbs.	Terminal Block		220	3.4	11,450	6.9	28			430			28	30
	ECB38-4CB (16V87)		230	3.7	12,550	6.9	28			4 30			28	30
	35A Circuit breaker		240	4.0	13,650	6.9	29			430			29	30
5 kW	ECB38-5 (16V88)	1	208	3.8	12,800	6.9	31			35			31	35
4 lbs.	Terminal Block		220	4.2	14,300	6.9	32			35			32	35
	ECB38-5CB (16V89)		230	4.6	15,700	6.9	34			35			34	35
	35A Circuit breaker		240	5.0	17,100	6.9	35			35			35	35
6 kW	ECB38-6 (16V90)	1	208	4.5	15,400	6.9	36			40			36	40
4 lbs.	Terminal Block		220	5.0	17,100	6.9	37			40			37	40
	ECB38-6CB (16V91)		230	5.5	18,800	6.9	39			40			39	40
	40A Circuit breaker		240		20,500	6.9	40			40			40	40
8 kW	ECB38-8 (16V92)	2	208	6.0	20,500	6.9	45			4 45			45	45
5 lbs.	Terminal Block		220	6.7	22,900	6.9	47			50			47	50
	ECB38-8CB (16V93)		230	7.3	25,100	6.9	48			50			48	50
	50A Circuit breaker		240	8.0	27,300	6.9	50			50			50	60
9 kW	ECB38-9CB (16V94)	2	208	6.8	23,100	6.9	49			450			49	50
5 lbs.	60A Circuit breaker		220	7.6	25,800	6.9	52			60			52	60
			230	8.3	28,200	6.9	54			60			54	60
			240	9.0	30,700	6.9	56			60			56	60
12.5 kV	V ECB38-12.5CB (16V95)	2	208	9.4	32,000	6.9	27	38		30	440		65	70
10 lbs.	(1) 30A and		220	10.5	35,800	6.9	29	40		30	440		68	70
	(1) 45A Circuit breaker		230	11.5	39,200	6.9	29	42		30	45		71	80
			240		42,600	6.9	31	44		435	45		74	80
15 kW	ECB38-15CB (16V96)	2	208	11.3	38,400	6.9	31	45		35	445		76	80
12 lbs.	(1) 35A and		220		43,000	6.9	32	48		35	<sup>4</sup> 50		80	90
	(1) 60A Circuit breaker		230		47,000	6.9	34	50		35	<sup>4</sup> 50		84	90
			240		51,200	6.9	35	52		35	60		87	90
20 kW	ECB38-20CB (16V97)	2	208		51,200	6.9	49	50		<sup>4</sup> 50	4 50		99	100
19 lbs.	(2) 60A Circuit breaker		220		57,300	6.9	52	53		60	60		104	110
			230		62,700	6.9	54	55		60	60		108	110
			240		68,200	6.9	56	57		60	60		113	125
25 kW	ECB38-25CB (16V98)	3	208		64,100	6.9	46	38	38	4 50	440	440	122	125
19 lbs.	(1) 60A and		220		71,700	6.9	48	40	40	4 50	440	440	128	150
	(2) 45A Circuit breaker		230		78,300	6.9	50	42	42	4 50	45	45	134	150
			240	25.0	85,300	6.9	52	44	44	60	45	45	140	150
	E PHASE		000	0.0	00 500	0.0		1	1	0.5	1	1		0.5
8 kW	ECB38-8 (16V99)	1	208		20,500	6.9	30			35			30	35
5 lbs.	Terminal block		220		22,900	6.9	31			35			31	35
			230		25,100	6.9	32			35			32	35
40 1-14/	E0000 40 (40M07)	1	240		27,300	6.9	33			35			33	35
10 kW	ECB38-10 (16W67)	1	208		25,600	6.9	35			40			35	40
6 lbs.	Terminal block		220		28,700 31,400	6.9	37 38			40			37 38	40
			240		34,100	6.9 6.9	39			40			39	40
15 kW	ECB38-15CB (16W68)	1	208		38,400	6.9	48			50			48	35
		'	220		43,000	6.9	51			460			51	35
12 lbs.	50A Circuit breaker		230		47,000	6.9	52			460			52	35
			240		51,200	6.9	54			460			54	35
20 kW	ECB38-20CB (16W69)	2	208		51,200	6.9	35	26		440	430		61	70
19 lbs.	(2) 35A Circuit breaker		220		57,300	6.9	37	28		440	430		64	70
19 108.	(2) 33A Circuit breaker		230		62,700	6.9	38	29		440	430		67	70
			240		68,200	6.9	39	30		440	35		69	70
25 kW	ECB38-25CB (16W70)	2	208		64,100	6.9	42	33		445	435		74	80
19 lbs.	(1) 50A and	_	220		71,700	6.9	44	34		445	435		78	80
10 105.	(1) 40A Circuit breaker		230		78,300	6.9	45	36		50	40		81	90
	(1) TOA CITCUIT DIEAKET		240		85,300	6.9	47	38		50	40		84	90
NOTE	Circuit 1 Minimum Circuit Amnac	ity include					1 7/	1 30	1	1 30	1 +0	1	04	1 30

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

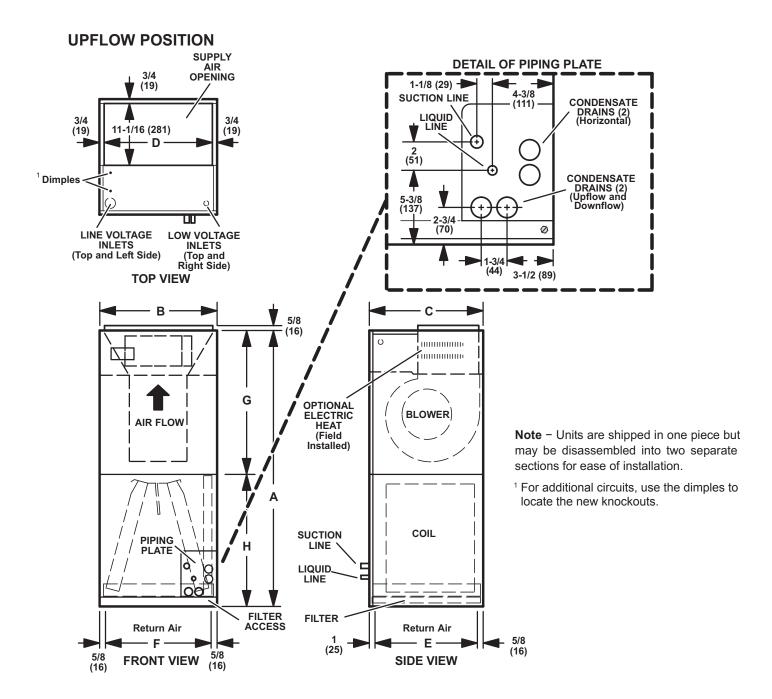
<sup>&</sup>lt;sup>1</sup> Electric heater capacity only - does not include additional blower motor heat capacity.

<sup>&</sup>lt;sup>2</sup> Amps shown are for blower motor only.

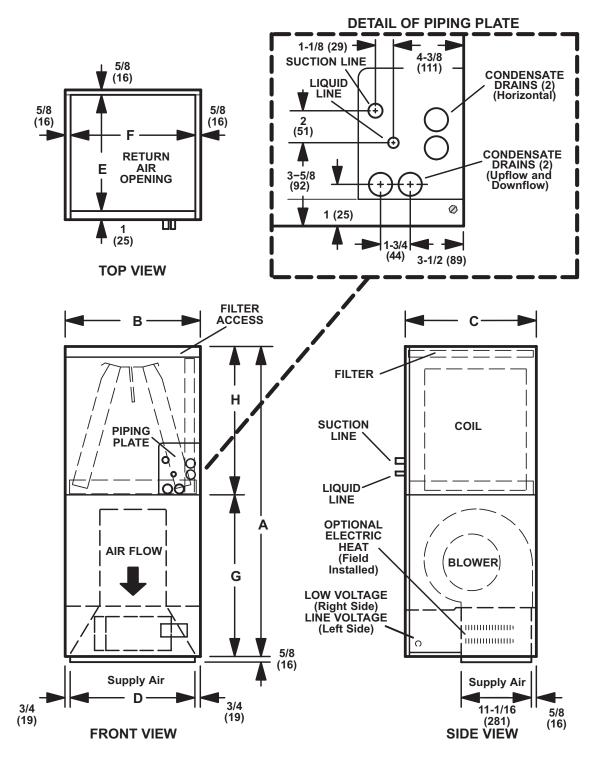
<sup>&</sup>lt;sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F.

<sup>&</sup>lt;sup>4</sup> Bold text indicates that the circuit breaker on "CB" circuit breaker models must be replaced with size noted. See Replacement Circuit Breakers on Page 9.

<sup>&</sup>lt;sup>5</sup> HACR type circuit breaker or fuse. **CBA38MV / Page 20** 



Model	Α		В		С		D		Е		F		G		Н	
No.	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
CBA38MV-018/024	49-1/4	1251	21-1/4	540	20-5/8	524	19-3/4	502	19	483	20	508	24-5/8	625	24-5/8	625
CBA38MV-030 CBA38MV-036	51	1295	21-1/4	540	22-5/8	575	19-3/4	502	21	533	20	508	26-3/8	670	24-5/8	625
CBA38MV-042 CBA38MV-048	58-1/2	1486	21-1/4	540	24-5/8	625	19-3/4	502	23	584	20	508	27-7/8	708	30-5/8	778
CBA38MV-060	62-1/2	1588	21-1/4	540	24-5/8	625	19-3/4	502	23	584	20	508	27-7/8	708	34-5/8	879

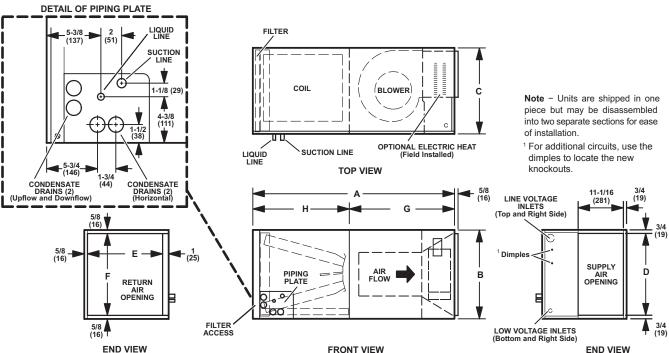


**Note** – Units are shipped in one piece but may be disassembled into two separate sections for ease of installation.

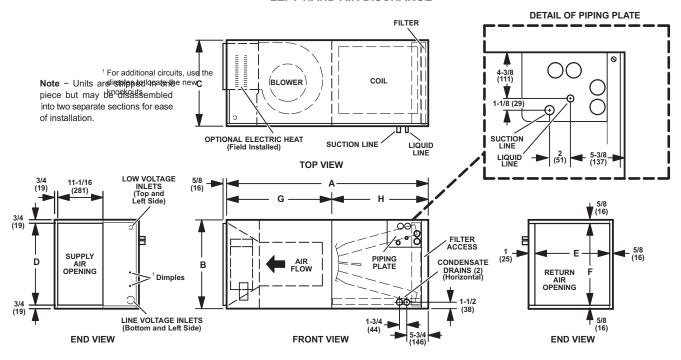
Model No.	Α		В		С		D		Е		F		G		Н	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
CBA38MV-018/024	49-1/4	1251	21-1/4	540	20-5/8	524	19-3/4	502	19	483	20	508	24-5/8	625	24-5/8	625
CBA38MV-030 CBA38MV-036	51	1295	21-1/4	540	22-5/8	575	19-3/4	502	21	533	20	508	26-3/8	670	24-5/8	625
CBA38MV-042 CBA38MV-048	58-1/2	1486	21-1/4	540	24-5/8	625	19-3/4	502	23	584	20	508	27-7/8	708	30-5/8	778
CBA38MV-060	62-1/2	1588	21-1/4	540	24-5/8	625	19-3/4	502	23	584	20	508	27-7/8	708	34-5/8	879

#### **DIMENSIONS - INCHES (MM) HORIZONTAL**

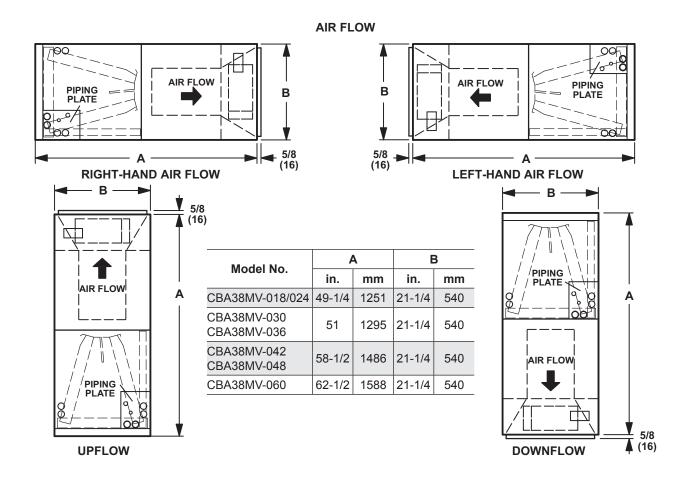
#### **RIGHT-HAND AIR DISCHARGE**



#### **LEFT-HAND AIR DISCHARGE**

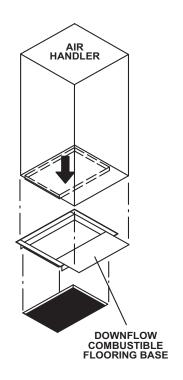


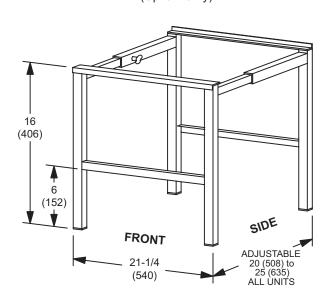
Model No.	Α		В		С		D		Е		F		G		Н	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
CBA38MV-018/024	49-1/4	1251	21-1/4	540	20-5/8	524	19-3/4	502	19	483	20	508	24-5/8	625	24-5/8	625
CBA38MV-030 CBA38MV-036	51	1295	21-1/4	540	22-5/8	575	19-3/4	502	21	533	20	508	26-3/8	670	24-5/8	625
CBA38MV-042 CBA38MV-048	58-1/2	1486	21-1/4	540	24-5/8	625	19-3/4	502	23	584	20	508	27-7/8	708	30-5/8	778
CBA38MV-060	62-1/2	1588	21-1/4	540	24-5/8	625	19-3/4	502	23	584	20	508	27-7/8	708	34-5/8	879



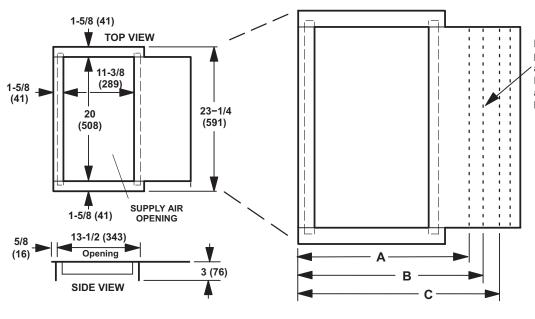
#### **DOWNFLOW COMBUSTIBLE FLOORING BASE**

#### SIDE RETURN UNIT STAND (Upflow Only)





#### Catalog No. - 44K15



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

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

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





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