









Features and Benefits

Factory-Built Bottom Supply Air Conditioner

- Space Saving Design Mounts on Outside Wall
- Supply Opening Can Be At or Under Floor Level
- Energy Saving and Safety Tested

Built-In Reliability

- High and Low Pressure Switch with Lockout
- Short Cycle Protection
- Dual Condensate Drains w/Internal Traps
- Factory Installed Circuit Breakers
- Dual Rainwater Drains from Condenser Section

Rugged Construction

- Copper Tube, Aluminum Fin Evaporator & Condenser Coil
- Optional Factory Installed Heaters On Discharge Side of Evaporator Coil
- · Baked On Finish Over Galvanneal Steel

CEA1036A-1048A-1060A/ (3, 4 & 5 Ton) Counterflow Series Vertical Wall Mount Air Conditioners

General Description

The Industrial Climate Engineering™ Counterflow Air Conditioner offers unique benefits in applications requiring low supply air outlet. Typical installations include computer rooms, electronic equipment shelters, and uninterrupted power supply (UPS) buildings. The ICE air conditioner is an energy and space saving unit designed to offer maximum indoor comfort without using outside ground space or indoor floor space. The unit can be easily mounted on an outside wall with the supply opening at or under floor level. Factory or field installed accessories can be used to meet specific requirements.

All models use non-ozone depleting R-410A refrigerant.

Safety Listed

ICE Counterflow air conditioners are built to UL standard 1995, 4th edition and CAN/CSA C22.2, No. 236-11 Ed.4. The units are tested in accordance to the ANSI/AHRI 390 standard. CEA models are commercial units and not intended for residential use.

Advantages Over Field Modified Systems Include These Standard Features:

Designed for Operation in Low Ambient Conditions

- Low ambient control cycles condenser fan to regulate refrigerant pressures.
- Timed low pressure by-pass for start-up of A/C below 20°F and down to 0°F.

High Efficiency

- · High Efficiency Compressor.
- Lanced fins and rifled tubing on many condenser and evaporator coils.

Built-In Reliability

- High and low pressure switches with lockout relay protects refrigerant circuit.
- Time delay/anti-short cycle timer.
- Dual condensate drains with internal trans
- Two rainwater drains from condenser section to unit's base.
- Factory installed circuit breaker on all units.

Ease of Installation

- Built-in full length mounting flanges and sloped top minimize chance of water leaks
- Compressor location on the isolated vented bottom shelf for shipping and mounting stability.

Ease of Service

- Service access valves are standard.
- Easy access to controls without disturbing indoor air flow - no ladder required.
- Front Control Panel allows easy access and complies with NEC clearance codes on redundant systems (two units side by side)
- All major components are readily accessible.

Remote Alarm Capability

 Dry contacts can be used for remote alarm or notification upon air conditioner lockout.

Controllers and Thermostats

Controllers

CommStat 6 4/8 Telecom HVAC ControllerP/N S/12087-04

The CommStat 6 is an HVAC controller, is available in three configurations, and is designed specifically for controlling up to six redundant air conditioners with two stage compressors in a telecommunications shelter or enclosure. The **CommStat** 6 2/4 controls up to two single or two 2-stage air conditioners (4 Stages max.), the CommStat 6 4/8 controls up to four single or four 2-stage air conditioners (8 Stages max.) and the CommStat 6 6/12 controls up to six single or six 2-stage air conditioners (12 Stages max.)



The CommStat 6 has multiple configurable outputs for remote alarms or notification. The CommStat 6 is factory programmed with standard industry set points, but can be configured on site. Settings are retained indefinitely in the event of a power loss. See the CommStat 6 PDS for more details.

CommStat 4 Telecom HVAC ControllerP/N S/7846

The CommStat 4 HVAC controller is designed specifically for controlling two redundant air conditioners or heat pumps with 2-Stage compressors. Seven outputs for remote alarms or notification. Status LED's indicate HEAT, COOL, POWER and the LEAD unit. An alarm LED flashes and the LCD screen displays any fault.



A CommStat 4 can be daisy chained with a second CommStat 4 for controlling up to four air conditioners in one shelter.

Solid state controller designed to operate a fully or partially redundant air conditioning system. Ensures equal wear on both air conditioners while allowing the lag unit to assist upon demand. Lead/ lag changeover is factory set at 7 days, but is field programmable in 1/2 day increments from 1/2 to 7 days. The CommStat 3™ Controller has LED's to indicate status & function, digital display of temperature, a comfort override button for energy savings, five alarm relays, a built in temperature sensor and is fully programmable. See the CommStat 3 PDS for more details.



➤ Thermostats & Thermostat Guards

Digital thermostat. 1 stage heat, 1 stage cool. 7 day programmable. Fan switch: Auto & On. Auto-change over. Keypad lockout. Non-volatile program memory. Thermostat guard for use with the 50123 and 50107 thermostats.

To be used with units with hot gas or electric reheat. Programmable dehumidistat and ventilation controller. Permanent memory retention of set points. Humidity sensor can be field calibrated. High & low dehumidification set points. Outdoor temperature and humidity sensor included. °F or °C selectable.

Accessories

> Supply Grilles

30" x 10" (762 mm x 254 mm)P/N 80676

> Return Grilles

For CEA1036-1048-1060 30" x 16" (762 mm x 406 mm)P/N 80679

➤ Return Filter Grilles

Used when filter must be changed from the interior.

Note: Filter used in Return Filter Grille is 1" (25 mm) thick.

For CEA1036-1048-1060

Options

The Counterflow air conditioners were designed and are built to stringent requirements of the communications/electronic shelter. Applications occur that have special requirements. Numerous options are available for the air conditioners that meet these special needs.

Dehumidification

Allows the electric heat to operate simultaneously with cooling. See Dehumidification Application Bulletin for details. Note: The electrical characteristics and requirements of air conditioners with the dehumidification option are different from standard air conditioners. Refer to the appropriate Summary Rating Charts for the electrical characteristics of units with Electric Reheat.

> Extreme Duty Package

The Extreme Duty Package allows selected ICE air conditioners to operate in extremely cold and hot ambient conditions. The Extreme Duty Package is always factory installed. Non-economizer air conditioners will operate from 0°F to 131°F (-18°C to 55°C). Economizer equipped air conditioners will operate from -40°F to 131°F (-40°C to 55°C).

> Protective Coating Packages

Coated Coils: Either the condenser or evaporator coil can be coated. For harsh conditions, e.g., power plants, paper mills or sites were the unit will be exposed to salt water, the coils should be coated. **Note:** Cooling capacity may be reduced by up to 5% on units with coated coils.



- Corrosion resistant fasteners,
- · Sealed or partially sealed condenser fan motor,
- Two layer epoxy/urethane applied to all exposed internal copper and metal in the in the condenser section, and
- A protective coating on the condenser coil.

All Coat Package: Includes the same features as the Coastal Environmental Package and adds an impregnated polyurethane on the evaporator coil and the two layer epoxy/urethane on all exterior and interior components and sheet metal.

Note 1: The insulated internal sheet metal and the internal control box are not coated.

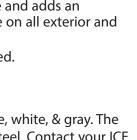
Note 2: The corrosion prevention coating can not be applied to stainless steel.

> Color

Air conditioners are available in three different cabinet colors -the standard ICE beige, white, & gray. The standard cabinet's sides, top and front panels are constructed of 20 gauge painted steel. Contact your ICE representative for color chips. The cabinet can also be constructed of type 316 stainless steel. Two stainless steel cabinet constructions are available- the complete cabinet, including most internal sheet metal or only the exterior sheet metal.

> Dirty Filter Indicator

A factory installed option that measures the difference in pressure across the internal filter and illuminates an LED when the pressure exceeds the desired difference.





Phase Monitor

Continuously measures the voltage of each of the three phases. The monitor separately senses low and high voltage, voltage unbalance including phase loss and phase reversal. A RED LED glows to indicate a fault. A GREEN indicator glows when all voltages are acceptable. Automatically resets when voltages and phases are within operating tolerances. Not required on 1ø units.

➤ Thermal Expansion Valve

Available on all air conditioners. Improves performance in hot ambient temperatures.

➤ Compressor Sound Jacket

To reduce sound of Compressor.

Lockable Disconnect Access Cover Plate

The access plate to the service disconnect switch can be equipped with a lockable cover.

Desert Duty Package

The Desert Duty package is designed for operation in hot climates including the American southwest and the Middle East in ambient temperatures up to 130°F (54°C). Standard features of the Desert Duty package include a thermal expansion valve and a sealed condenser fan motor.

Controls

Electronic Control Board

The exclusive Printed Circuit Board (PCB) in ICE air conditioners sets the standard for the industry in terms of flexibility, reliability, and performance. This UL certified component is engineered to optimize Heating, Cooling and Dehumidification operation while communicating valuable information to the end user.

Special Features Include:

- Improved HVAC System Reliability (built in sequence / timer functionality and simplified wiring)
- 2-Stage Compressor Operation
- Variable Speed Indoor Blower Control (Optimize Latent and Sensible Capacity)
- Built-in Remote Communication (Monitor and Control via MODBUS)
- Built-in Temperature Sensor (Operate without an External Thermostat)
- Alarm Status (Drastically Reduces Troubleshooting Time and System Downtime)
- LEDs Indicate Independent Refrigerant Circuit Status
- Lockout Contacts (Normally Open or Normally Closed)
- Alarms Communicated via MODBUS



Model Identification

Example	С	Ε	Α	1	0	3	6	Α	Α	0	5	0	С	R	+	+	+	1	D	Α	+	Α	2	1	+	+	+	+	+	+
Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

1	Unit Designation/Family	C = Industrial Climate Engineering (ICE)			
2	Energy Efficiency Ratio (EER)	E = Standard Efficiency		17	Indoor Air C
3	Refrigerant Type	A = R-410a			Features
4	Compressor Type/Quantity	1 = Single	ŀ	18	Air Flow
5 6 7	Unit Capacity/Nominal Cooling (BTUH)	036 = 36,000 048 = 48,000 060 = 60,000		19	Compresso Location
8	System Type	A = Air Conditioner	1		
9	Power Supply (Volts-Hz-Phase)	A = 208/230-60-1 C = 208/230-60-3 D = 460-60-3		20	Filter Option
10	Lloat Decignation	000 = No Heat 090 = 9KW			
11	Heat Designation @ Rated Voltage	100 = 4KW			
12	KW = Kilowatt	060 = 6KW 150 = 15KW 080 = 8KW			Corrosion
13	Ventilation Configuration	A = Solid Front Door		21	Protection
14	Dehumidification	R = Electric Reheat T = Electric Reheat w/Humidity Control + = None			
		A = Power Fail Alarm w/Additional Lockouts C = 24V EMS Relay Kit		22	Engineering Revision Le
15	Controls	D = 24V EMS Relay Kit w/Factory Installed T-Stat E = Factory Installed T-Stat + = None			
		A = Evaporator Freeze Sensor (EFS) C = EFS w/Hot Gas Bypass M = Extreme Duty w/Hard Start & EFS N = Hard Start P = Hard Start w/Low Ambient & CCH Q = Hard Start w/Low Ambient & Fan Cycle Control (FCC)		24	Cabinet Co
		R = Crank Case Heater (CCH) T = Hard Start w/EFS		25	Sound Atter
16	Operating Condition	U = Hard Start w/Hot Gas Bypass V = Hard Start w/Low Ambient &		26	Security Op
		CCH & EFS W = Low Ambient w/CCH X = Hot Gas Bypass Y = Low Ambient w/CCH & FCC Z = Low Ambient w/CCH & EFS		27	Fastener/Dr Option
		1 = Low Ambient w/CCH & EFS 1 = Low Ambient w/FCC 2 = Low Ambient w/FCC & EFS	ĺ	28	Unused
		3 = CCH w/Hot Gas Bypass + = None		29	Unused

Indoor Air Quality Features	
D = Left Hand A = 2" Pleated (MERV 8, AC/HP-C) C = 2" Charcoal D = MERV 11 High Filtration Package E = MERV 13 High Filtration Package F = Filter Access Through Return Air Grille W = Aluminum Washable + = None A = Condenser Coil Only C = Evaporator Coil Only C = Evaporator Coil Only D = Both Coils Condenser & Evaporator E = All Coils Cond/Evap/Reheat F = Coat All K = Coastal Package + = None \$ = Special 22 Engineering A2	
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C = Evaporator Coil Only D = Both Coils Condenser & Evaporator E = All Coils Cond/Evap/Reheat F = Coat All K = Coastal Package + = None \$ = Special	
1 = Beige 2 = Gray 3 = Carlsbad Canyon 4 = White 5 = Stainless Steel Exterior 6 = Dark Bronze 7 = .050 Aluminum Stucco 8 = Mesa Tan 9 = Pebble Gray A = Stainless Steel - Unit \$ = Custom Color (Powder Coat)	
25 Sound Attenuation 2 = Compressor Blanket + = None	
26 Security Option A = Lockable Access Plate/Tamper Proof + = None	
Pastener/Drain Pan Option A = Stainless Steel Fasteners C = Stainless Steel Drain Pan D = Stainless Steel Fasteners & Drain Pan + = None	
28 Unused += None \$ = Special	
29 Unused += None \$ = Special	
30 Special Variation + = None \$ = Special Configuration Not Covered by Model Nomenclature	

Note: Not all options are available with all configurations. Contact your ICE sales representative for configuration details and feature compatibility.

Efficiency and Capacity Ratings

Model Number		CEA1036A			CEA1048A			CEA1048A	
Model Number	Α	С	D	Α	С	D	Α	С	D
Cooling BTUH ¹		34,000			44,500			51,000	
Rated Air Flow (CFM ²)		1,200			1,650			1,650	

¹Cooling rated at 95°F (35°C) outdoor and 80°F DB/67° WB (26.5°C DB/19.5°C WB) return air

Sensible Total Heat Ratio @ 95°F (35°C) Outside Air DB

Madel Newsbar		CEA1036A			CEA1048A			CEA1048A	
Model Number	Α	С	D	Α	С	D	Α	С	D
Total Capacity		34,000			44,500			51,000	
Sensible Heat Ratio		0.67			0.76			0.70	
Sensible Capacity		22,900			34,000			35,500	
Rated Air Flow (CFM ¹)		1,200			1,650			1,650	

¹CFM=Cubic Feet per Minute

Cooling Performance (BTUH) at Various Outdoor Temperatures

Model						Outdoor Te	emperature					
Number	75°F 24°C	80°F 26.5°C	85°F 29°C	90°F 32°C	95°F 35°C	100°F 38°C	105°F 40.5°C	110°F 43.3°C	115°F 46°C	120°F 48.9°C	125°F 51.7°C	130°F 54°C
CEA1036A	39,440	38,080	36,720	35,360	34,000	32,640	31,280	29,920	28,560	27,200	25,840	24,480
CEA1048A	51,620	49,840	48,060	46,280	44,500	42,720	40,940	39,160	37,380	35,600	33,820	32,040
CEA1060A	59,160	57,120	55,080	53,040	51,000	48,960	46,920	44,880	42,840	40,800	38,760	36,720

Based upon return air conditions of 80°F DB/67° WB (26.5°C DB/19.5°C WB) at various outdoor temperatures.

Electrical Characteristics - Compressor, Fan & Blower Motors

BASIC	COMPR	ESSOR				DOOR IOTOR			OOR BLOW OTOR (ECN	
MODEL	VOLTS-HZ-PH	RLA ¹	LRA ²	RPM ³	TYPE	FLA ⁴	HP ⁵	RPM ³	FLA ⁴	HP ⁵
CEA1036AA	208/230-60-1	17.9	112.0	825	PSC	2.8	1/3	1300	2.8	1/2
CEA1048AA	208/230-60-1	21.8	117.0	1300	ECM	2.8	1/2	1300	4.3	3/4
CEA1060AA	208/230-60-1	26.2	134.0	1300	ECM	2.8	1/2	1300	4.3	3/4
CEA1036AC	208/230-60-3	13.2	88.0	825	PSC	2.8	1/3	1300	2.8	1/2
CEA1048AC	208/230-60-3	13.7	83.1	1300	ECM	2.8	1/2	1300	4.3	3/4
CEA1060AC	208/230-60-3	15.6	110.0	1300	ECM	2.8	1/2	1300	4.3	3/4
CEA1036AD	460-60-3	6.0	44.0	825	PSC	2.8	1/3	1300	2.8	1/2
CEA1048AD	460-60-3	6.2	41.0	1300	ECM	2.8	1/2	1300	4.3	3/4
CEA1060AD	460-60-3	7.7	52.0	1300	ECM	2.8	1/2	1300	4.3	3/4

¹RLA = Rated Load Amps ²LRA = Locked Rotor Amps ³RPM = Revolutions per Minute ⁴FLA = Full Load Amps ⁵HP = Horsepower The 460 volt ("D") models will have a step down transformer for the 230 volt motors.

²CFM=Cubic Feet per Minute

Ratings are with no outside air. Performance will be affected by altitude.

Ratings are at 230 volts for 208/230 volt units ("A" & "C" models) and 460 volts for "D" models.

Operation of units at a different voltage from that of the rating point will affect performance and air flow.

Sensible heat ratios based upon outdoor air conditions of 95°F (35°C) and 80°F DB/67° WB (26.5°C DB/19.5°C WB) return air.

Summary Electrical Ratings (Wire and Circuit Breaker Sizing) Ventilation Configurations:

No Outside Air ("A")

ELECTF	RIC HEAT	000 =	None	040 =	4 kw	050 =	5 kw	060 =	6 kw	080 =	8 kw	090 =	9 kw	100 =	10 kw	120 =	12 kw	150 =	15 kw
BASIC	VOLTS-HZ-PH	SP	PE ³	SPI	PE ³	SP	PE ³	SPI	PE ³	SPI	PE ³	SPI	PE ³	SP	PE ³	SP	PE ³	SPI	PE ³
MODEL	VULIS-HZ-PH	MCA ¹	MFS ²																
CEA1036AA	208/230-60-1	28.0	45	28.0	45	28.8	45	34.1	45	44.4	45			54.9	60	65.3	70	80.9	90
CEA1048AA	208/230-60-1	34.4	50			34.4	50							56.4	60	66.8	70	82.4	90
CEA1060AA	208/230-60-1	39.9	60			39.9	60							56.4	60	66.8	70	82.4	90
CEA1036AC	208/230-60-3	22.1	35					22.1	35			30.0	35			38.9	40	47.9	50
CEA1048AC	208/230-60-3	24.2	35					24.2	35			31.5	40			40.4	45	49.4	50
CEA1060AC	208/230-60-3	26.6	40					26.6	40			31.5	40			40.4	45	49.4	50
CEA1036AD	460-60-3	10.3	15					10.3	15			14.9	15			19.4	20	23.9	25
CEA1048AD	460-60-3	11.3	15					11.3	15			15.7	20			20.2	25	24.7	25
CEA1060AD	460-60-3	13.2	20					13.2	20			15.7	20			20.2	25	24.7	25

¹MCA = Minimum Circuit Ampacity (Wiring Size Amps)

Summary Electrical Ratings (Wire and Circuit Breaker Sizing) with Electric Reheat ("R") and Ventilation Configurations:

No Outside Air ("A")

ELECTR	RIC HEAT	000 =	None	040 =	4 kw	050 =	5 kw	060 =	6 kw	080 =	8 kw	090 =	9 kw	100 =	10 kw	120 =	12 kw	150 =	15 kw
BASIC	VOLTE UZ DU	SPI	PE ³	SP	PE ³														
MODEL	VOLTS-HZ-PH	MCA ¹	MFS ²																
CEA1036AA	208/230-60-1	28.0	45	48.9	50	54.0	60	59.3	60					80.1	90	90.5	100	106.1	110
CEA1048AA	208/230-60-1	34.4	50			60.4	70							86.5	90	96.9	100	112.5	120
CEA1060AA	208/230-60-1	39.9	60			65.9	70							92.0	100	102.4	110	118.0	120
CEA1036AC	208/230-60-3	22.1	35					40.1	45			49.2	50			58.2	60	67.2	70
CEA1048AC	208/230-60-3	24.2	35					42.2	45			51.3	60			60.3	70	69.3	70
CEA1060AC	208/230-60-3	26.6	40					44.6	45			53.7	60			62.7	70	71.7	80
CEA1036AD	460-60-3	10.3	15					19.3	20			23.8	25			28.3	30	32.8	35
CEA1048AD	460-60-3	11.3	15					20.3	25			24.8	25			29.3	30	33.8	35
CEA1060AD	460-60-3	13.2	20					22.2	25			26.7	30			31.2	35	35.7	40

¹MCA = Minimum Circuit Ampacity (Wiring Size Amps) ²MFS = Maximum Fuse or HACR Breaker Size ³SPPE = Single Point Power Entry MCA & MFS are calculated at 230 volts on the "A" & "C" models. The 460 volts "D" models are calculated at 460 volts. This chart should only be used as a guide-

line for estimating conductor size and overcurrent protection. For the requirements of specific units, always refer to the data label on the unit.

Unit Load Amps Ventilation Configurations:

No Outsi	ide Air ("A	")																	
BASIC MODEL NUMBER	VOLTS-HZ-PH	CURI	RENT	(1) A	LL HEAT	ING ELE	MENTS	NG-ELEN ARE ON A 5 kW) UTI	A SEPAR	ATE CIR	CÚIT		UDES AI	MPS FRO		OR(S) TH	AT ARE	S LOCATEL VE HEAT	
NUMBER		AC ¹	IBM ²	04 kW	05 kW	06 kW	08 kW	09 kW	10 kW	12 kW	15 kW	04 Kw	05 Kw	06 Kw	08 Kw	09 Kw	10 Kw	12 Kw	15 Kw
CEA1036AA	208/230-60-1	22.6	2.8	16.7	20.8	25.0	33.3		41.7	50.0	62.5	19.5	23.6	27.8	36.1		44.5	52.8	65.3
CEA1048AA	208/230-60-1	28.9	4.3		20.8				41.7	50.0	62.5		25.1				46.0	54.3	66.8
CEA1060AA	208/230-60-1	33.3	4.3		20.8				41.7	50.0	62.5		25.1				46.0	54.3	66.8
CEA1036AC	208/230-60-3	18.8	2.8			14.4		21.7		28.9	36.1			17.2		24.5		31.7	38.9
CEA1048AC	208/230-60-3	20.8	4.3			14.4		21.7		28.9	36.1			18.7		26.0		33.2	40.4
CEA1060AC	208/230-60-3	22.7	4.3			14.4		21.7		28.9	36.1			18.7		26.0		33.2	40.4
CEA1036AD	460-60-3	8.8	1.4			7.2		10.8		14.4	18.0			8.6		12.2		15.8	19.4
CEA1048AD	460-60-3	9.8	2.2			7.2		10.8		14.4	18.0			9.4		13.0		16.6	20.2
CEA1060AD	460-60-3	11.3	2.2			7.2		10.8		14.4	18.0			9.4		13.0		16.6	20.2

AC¹ = Air Conditioner Unit Amps IBM² = Indoor Blower Motor

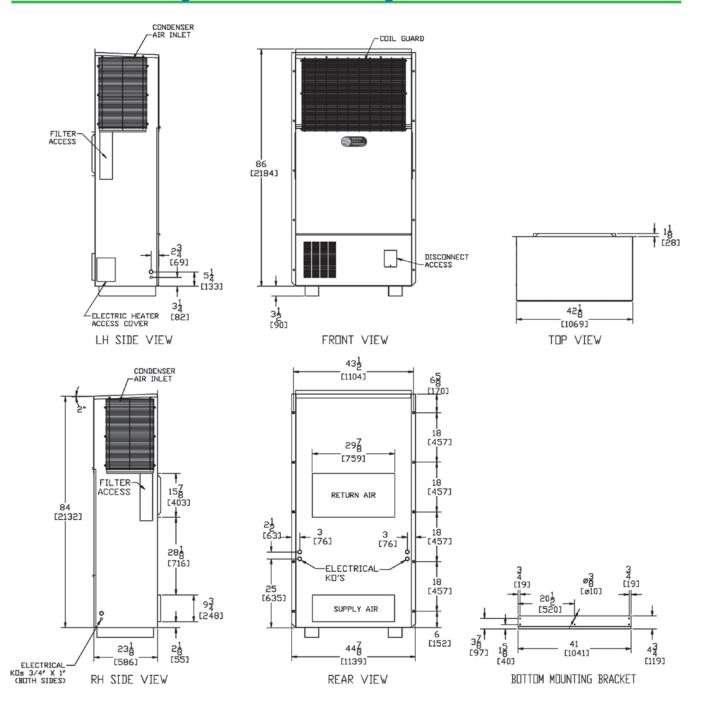
Heating kW is rated at 240 volts on the "A" & "C" models. Derate heater output by 25% for operation at 208 volts. Heating kW is rated at 480 volts on the "D" models. Total heating and cooling amps includes all motors. Three phase models contain single phase motor loads. Loads are not equally balanced on each phase and values shown are maximum phase loads.

²MFS = Maximum Fuse Size

³SPPE = Single Point Power Entry

MCA & MFS are calculated at 230 volts on the "A "& "C" models. The 460 volts "D" models are calculated at 460 volts. This chart should only be used as a guideline for estimating conductor size and overcurrent protection. For the requirements of specific units, always refer to the data label on the unit.

Dimensional Drawings - No Outside Air Configuration



Weight

MODEL	CEA1036A	CEA1048A	CEA1060A
POUNDS/KG	LBS/KG	LBS/KG	LBS/KG
UNITS WITH A FRESH AIR DAMPER	540/245.5	545/248	550/250

Return Air Filter Size

INCHES	MM	PART NUMBER	FILTERS PER UNIT	MERV RATING	TYPE
16 x 20 x 2	406 x 508 x 51	92347	2	7	Pleated, Disposable

Please consult the Industrial Climate Engineering website at www.acice.com for the latest product literature. Detailed dimensional data is available upon request. A complete warranty statement can be found in each product's Installation/Operation Manual, on our website. As part of the ICE continuous improvement program, specifications are subject to change without notice.



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