

TECHNICAL SPECIFICATIONS FOR MODEL EUHC**INDOOR COMMERCIAL/INDUSTRIAL COMPACT ELECTRIC UNIT HEATER****Table of Contents**

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In keeping with our policy of continuous product improvement, we reserve the right to alter, at any time, the design, construction, dimensions, weights, etc., of equipment information shown here.

TECHNICAL SPECIFICATIONS—CONTINUED

Unit Sizes

These units are available in six unit sizes based on heating capacity of 2,000–20,000 watts.

Features

- Voltage/phase options: 208/1, 208/3, 240/1, 240/3, 277/1, 480/3, and 600/3
- Painted galvanized-steel cabinet with two-tone black and white glossy, scratch-resistant paint scheme
- Adjustable mounting bracket assembly enables unit to be mounted at desired downward and lateral angle
- Fully-sheathed heating elements
- High-temperature and FAN ON limit switch control with automatic reset
- External terminal strip for 24V wiring
- 208V and 240V units in sizes 3, 5, 7, and 10 are field-adjustable to 3-phase electrical power to reduce amperage demand and operating expense

Factory-Installed Options

Option	Description
AK4	277/1/60 voltage (unit sizes 3, 5, 7, and 10)
AK7E	480/3/60 voltage (all unit sizes)
AK8E	600/3/60 voltage (unit sizes 7, 10, 15, and 20)
AK15	208/1/60 voltage (unit sizes 3, 5, 7, and 10, field-convertible from 1- to 3-phase)
AK19	208-240/1/60 voltage (unit sizes 3 and 5 approved for residential use)
AK20	208-240/3/60 voltage (unit sizes 15 and 20)
AK44	208-240/3/60 voltage (unit sizes 3, 5, 7, and 10, field-convertible from 1- to 3-phase)

Field-Installed Options

Option	Description
CL1	Single-stage low-voltage thermostat
CL31, CL32	Multiple unit control: option CL31 includes components for one control unit and one additional unit—option CL32 includes components for each additional non-control unit
CL83	Two-stage programmable thermostat
CL84	Two-stage smart thermostat
CL90	BACnet-capable thermostat
CM1	Locking cover for CL1 thermostat
CM1B	Locking cover for CL83 and CL84 thermostats
CN3F	Remote OCCUPIED/UNOCCUPIED switch in 2 × 4 box
CP3, CP17, CP21, CP23, CP41, CP43	Remote disconnect switch
IT18	Unit-mounted CL1 thermostat with mounting kit
JB3	Unit wiring kit, includes CL83 thermostat with 25-foot wire and disconnect switch with wiring harness

Certification

This unit is listed by Intertek to UL 2021 and CSA C22.2 #46 for use in the US and Canada.

Installation Codes

- This unit must be installed in accordance with local building codes. Local authorities having jurisdiction should be consulted before installation is made to verify local codes and installation procedure requirements.
- All electrical wiring and connections, including electrical grounding must be made in accordance with the *National Electric Code ANSI/NFPA No. 70* (latest edition) or, in Canada, the *Canadian Electric Code*, Part 1 (CSA C.22.1). In addition, the installer should be aware of any local ordinances or gas company requirements that might apply.

Technical Data

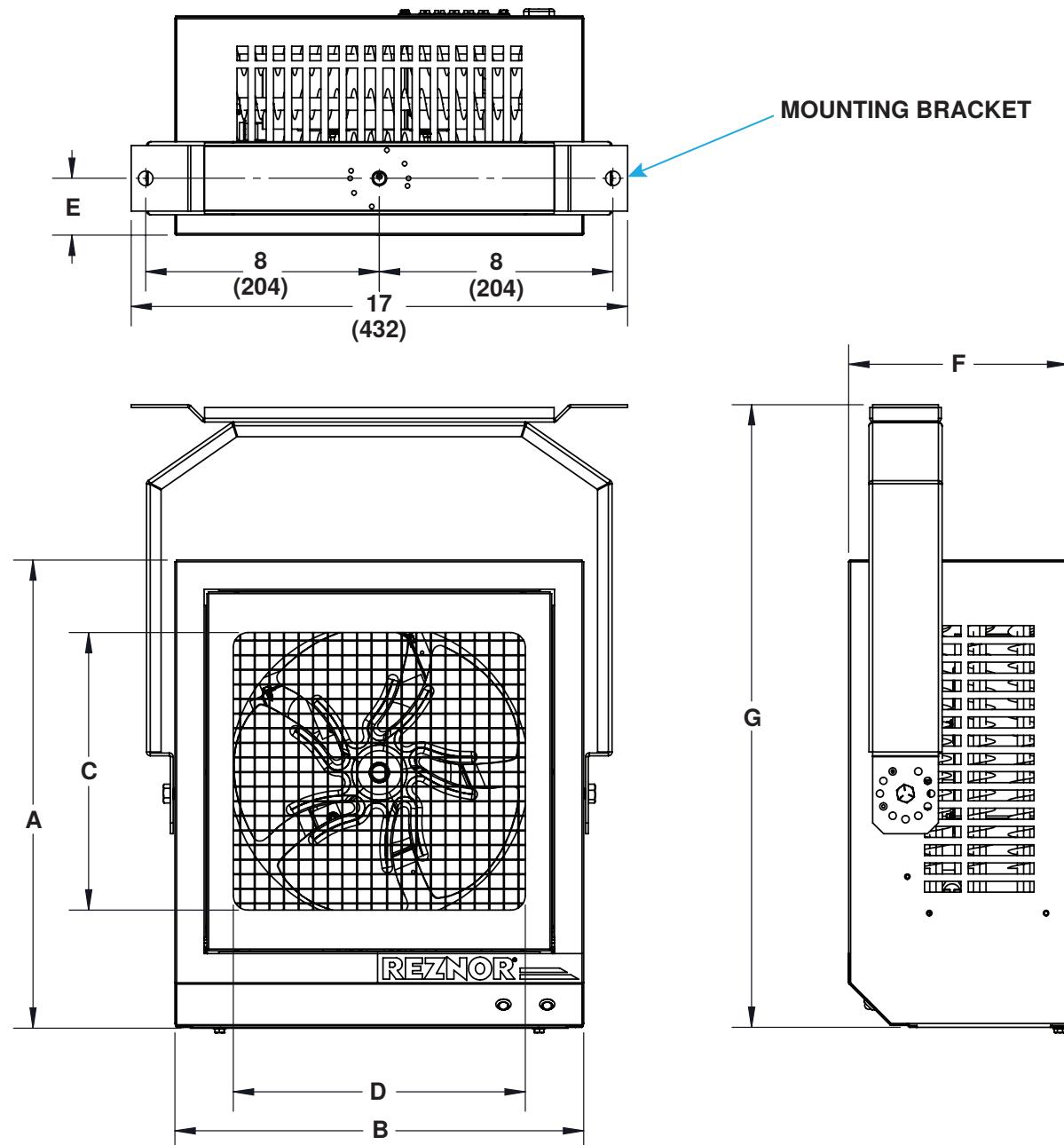
Parameter	Unit of Measure	Unit Size (kW)						
		3	5	7	10	15	20	
Heating capacity	kW	3	5	7.5	10	15	20	
	BTUh	10,236	17,060	25,590	34,120	51,180	68,240	
Nominal kW	kW	3	5	7.5	10	15	20	
					9.9		19.8	
Discharge air opening area	foot ²	0.66		1.59		1.59		
	meter ²	0.06		0.15		0.15		
Air volume	CFM	340		640		1160		
	CMH	578		1088		1972		
Air velocity	FPM	515		403		730		
	meter/second	48		37		68		
Discharge air temperature rise	°F	28	43	35	48	41	54	
	°C	16	24	20	27	23	30	
Fan motor size	HP	0.03		0.07				
Fan diameter	inch	10		12		16		
Fan motor speed	RPM	1550		1050				
Fan motor full load amps	amp (208V unit)	0.27		0.45		0.49		
	amp (240V unit)	0.31		0.51		0.56		
	amp (277V unit)	0.25		0.43		0.45		
	amp (480V unit)	0.16		0.28		0.30		
	amp (600V unit)	—		0.30				

Parameter	Voltage	Phase										
		1				3						
		Unit Size (kW)										
		3	5	7	10	3	5	7	10	15	20	
Full Load Amps (FLA)	208@2kW*	11.1	—	—	6.5	—	—					
	208@4kW*	—	18.3				—					
	208@15kW*	—										31.8
	208	14.7	24.3	36.5	48.6	8.6	14.1	21.3	28.2	—		
	240	12.8	21.1	31.8	42.2	7.5	12.3	18.6	24.6	36.6	48.7	
	277	11.1	18.3	27.5	36.5	—						
	480	—				3.8	6.2	9.3	12.3	18.4	24.4	
	600	—				—	5.1	7.5	9.8	14.8	19.6	
Minimum Circuit Amps (MCA)	208@2kW*	11.2	—	—	6.6	—	—					
	208@4kW*	—	18.4				—					
	208@15kW*	—										31.9
	208	14.8	24.4	36.6	48.6	8.7	14.2	21.4	28.3	—		
	240	13.2	21.2	31.9	42.3	7.6	12.4	18.7	24.7	36.8	48.8	
	277	11.4	18.6	27.5	36.6	—						
	480	—				3.8	6.2	9.4	12.4	18.4	24.5	
Maximum Overcurrent Protection (MOP)	600	—				—	5.2	7.6	9.9	14.8	19.6	
	208@2kW*	15	—	—	15	—	—					
	208@4kW*	—	25				—					
	208@15kW*	—										40
	208	20	35	50	60	15	20	30	40	—		
	240		30	40	55			25	35	50	60	
	277	15	25	35	50	—						
	480	—				15				20	25	35
	600	—				—	15	15	20	25	35	

*Derated 240V capacity available with option AK20 or AK44.

TECHNICAL SPECIFICATIONS—CONTINUED

Dimensions



Cabinet Size	Unit Size (kW)	Dimension (See Graphic Above)						
		A	B	C	D	E	F	G
Inches (mm)								
1	3, 5	16-1/32 (408)	14 (356)	9-1/2 (242)	10 (254)			21-5/16 (542)
2	7, 10	21-3/4 (553)	19 (483)	15-1/4 (388)	15 (381)	1-15/16 (50)	7 1/2 (191)	27-1/16 (688)
		21-25/32 (554)	19-3/32 (485)			3-7/16 (88)	12-3/4 (324)	29-1/16 (739)

TECHNICAL SPECIFICATIONS—CONTINUED

Clearances

The unit must be located so that the clearances are provided for with regards to inspection and service and for proper spacing from combustible construction. Clearance to combustibles is defined as the minimum distance from the unit to a surface or object for which it is necessary to ensure that a surface temperature of 117°F (65°C) above the surrounding ambient temperature is not exceeded.

Unit Surface	Unit Size (kW)		
	3, 5	7, 10	15, 20
	Minimum Clearance (Inches (mm))		
Top (opposite controls side)	2 (51)		6 (153)
Back (non-discharge side)	7 (178)		8 (204)
Front (discharge side)	36 (915)		
Side (left and right)	4 (102)	6 (153)	9 (229)
Bottom (controls side)*	0 (0)		3 (77)

*Suspend the unit so that the bottom is a minimum of 6 feet (1.8 meters) above the floor.

Weights

Cabinet Size	Unit Size (kW)	Unit Weight	Shipping Weight
		Pounds (kg)	Pounds (kg)
1	3, 5	28 (13)	37 (17)
2	7, 10	40 (19)	53 (25)
3	15, 20	58 (27)	71 (33)

Electrical Connections

CAUTION

- Ensure that Ground Fault Overcurrent Protection (GFOC) and the Short Circuit Current Rating (SCCR) are adequate and provided for at the installation location.
- Ensure that all wiring is in accordance with the wiring diagram provided with the unit.
- All electrical wiring and connections, including electrical grounding MUST BE made in accordance with the *National Electric Code* (ANSI/NFPA No. 70, latest edition) or, in Canada, the *Canadian Electric Code* (Part 1, CSA C.22.1, latest edition). In addition, the installer should be aware of any local ordinances that might apply.
- All external wiring MUST BE within approved conduit and have a minimum temperature rise rating of 140°F (60°C). Conduit must be run so as not to interfere with the access panel.

Check the rating plate for the supply voltage and current requirements. A dedicated line voltage supply with a disconnect switch should be run directly from the main electrical panel to the unit.

NOTE: IMPORTANT (BEFORE CONNECTING THE SUPPLY WIRING): Determine if units with option AK15 or AK44 require field-modification of the transformer or contactor wiring.

⚠ DANGER ⚠

- This unit has hot parts inside. Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- This unit is hot when in use. To avoid burns, do not let bare skin touch hot surfaces.
- Do not operate any unit after it malfunctions. Disconnect power at the service panel and have the unit inspected by a reputable electrician before reusing.
- Do not use outdoors.
- Do not insert or allow foreign objects to enter any unit opening as this may cause electrical shock, fire, or damage to the unit.
- To prevent a possible fire, do not block air intakes or exhaust in any way whatsoever.
- Use this unit only as recommended by the manufacturer. Any other use may cause electrical shock, fire, or damage to the unit.

For more information on Reznor HVAC products:

- Contact your local Reznor representative at 1-800-695-1901
- Refer to the manuals and additional consumer materials found at www.reznorhvac.com



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