



REZNOR®

ELECTRIC HEATER CATALOG

CAPACITIES

1 - 60 kW

APPLICATIONS SPACE HEATING

Entry Ways

Stairwells

Hallways

Guard Houses

Factories

Workshops

Garages

Temporary Heat

Residential



TIME TESTED. CONTRACTOR APPROVED.

REZNOR® IS YOUR GLOBAL LEADER IN HVAC TECHNOLOGY

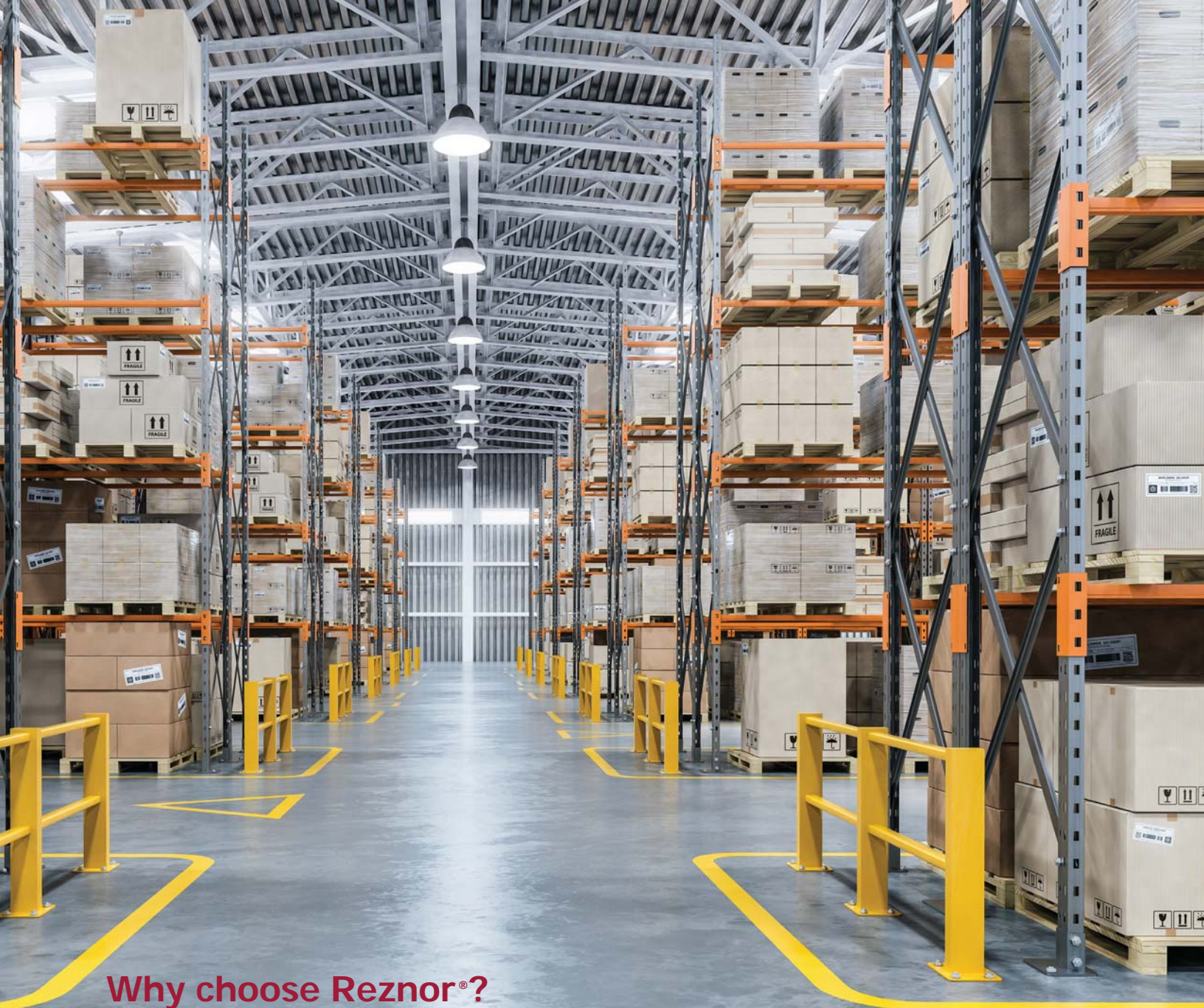
BACKGROUND

Reznor was founded in 1888 to manufacture the “Reznor” reflector heater, which used a luminous flame gas burner developed by George Reznor. This technological breakthrough was an immediate success and hastened the expansion of gas heating in residential and commercial applications. Technological development and innovation have been the hallmarks of Reznor products through the years. As a result of this pioneering role in the heating, makeup air and ventilating equipment field, the products offered today are the most advanced in engineering design to satisfy a wide variety of applications.

SERVICES

Product service requirements are handled through contractors and/or distributors, with backup from local representatives and factory-based service team. Replacement parts inventories for both warranty and non-warranty requirements are maintained at service centers throughout the country and at the manufacturing facilities.

For the Reznor Representative in your area, call 800-695-1901.



Why choose Reznor®?

With more than 130 years of experience in gas heating and air conditioning, Reznor manufactures a wide range of industrial and commercial HVAC solutions. Founded in 1888 in Pennsylvania, Reznor is a global leader thanks to its innovative and economical solutions for heating, cooling, ventilation and air quality.

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EUH ELECTRIC UNIT HEATER

ELECTRIC RESISTIVE, LOW-STATIC AXIAL FAN, COMMERCIAL/INDUSTRIAL UNIT HEATERS

Reznor® Model EUH electric resistive unit heaters are available in 8 sizes ranging from 2.3 to 30 kW (7.8 to 102 MBH). Model EUH can be a part of the building decarbonization plan by utilizing supplied sustainable, naturally generated electricity. In addition, it provides many features to reduce energy usage and operating costs.



The EUH models utilize robust, sheathed, and finned heating elements to transfer 100% of the heat to the air stream generated by the quiet axial fan. The EUH comes in multiple voltage and phase options to suit most requirements. The AK44 option in models 3-10 combines 4 voltage/phase combination making them ideal for many installations and for stocking to enable quick delivery/installation. Models 3-10 also come in 480V/3 phase enabling reduced amperage draw for those installations with this available.

Models 15-30 come in 3 phase electrical power to reduce operating expense by reducing the amperage demand to produce the heating effect. Additionally, these sizes come in 2 stage configuration so the heating can be tailored to the actual demand and reduce unit cycling and improve comfort.

Each unit is quickly and easily suspended using two integrated suspension points for ceiling mounting or wall mounting using the supplied brackets. Optionally, a direct ceiling mount hanger kit allows for low ceiling mounting. The low voltage terminal strip on the outside of the cabinet makes connecting 24V control wiring easy with no panels to remove. The addition of terminal G to the strip, along with the new design of the circuit board, allows for fan only operation without adding relays.

Reznor model EUH unit heaters feature a sleek, modern two-tone black and white, scratch-resistant painted appearance. Each unit has clean rounded corners and edges with no visible screws or fasteners. Model EUH unit heaters provide the same superior Reznor performance customers have relied on for more than 100 years along with added features that make servicing the unit easy and installation safe.

STANDARD FEATURES

- Multi-voltage units simplify selection and stocking
- Certified to UL 2021 Fixed and Location - Dedicated Electric Room Heaters
- 22 - 57°F Rise range
- Hinged door with ¼ turn latch
- Modern sleek styling cabinet design with removable front face
- Integrated horizontal louvers in front face
- Fan relay (included on the circuit board)
- Vibration/noise isolated fan motors – designed for low noise operation
- Wall mounting hangers provided and 2-point ceiling suspension integrated
- External terminal strip for 24-volt wiring
- Full fan guard

OPTIONAL FEATURES

- Unit mounted thermostat
- Factory installed disconnect switch
- Multiple thermostat options available including BMS capable
- Primary/secondary controls for zoning up to five units
- Low ceiling suspension kit
- Hanger kits for 1" pipe

EUH TECHNICAL DATA

Parameter	Unit of Measure	Unit Size (kW)							
		3	5	7	10	15	20	25	30
Heating Capacity	kW	3	5	7	10	15	20	25	30
	BTU/h	10,236	17,060	23,884	34,121	51,182	68,242	85,303	102,364
Control amps, 24V	amp	1.6							
Fan motor size	HP	0.03		0.07			0.17		
Fan size	inch	10			12	16		18	
Minimum air volume (limit cutout)	CFM	125	158	296	191	263	357	446	504
	meter ³ /minute	3.54	4.476	8.38	5.40	7.44	10.11	12.63	14.27
Maximum air volume	CFM	431	479	740	957	1215	1290	1612	1663
	meter ³ /minute	12.20	13.56	20.90	27.10	34.40	36.53	45.65	47.09

Parameter	Unit of Measure	Unit Size (kW)											
		3			5			7			10		
		Voltage											
		208	240	480	208	240	480	208	240	480	208	240	480
Nominal kW	kW	3			5			7			10		
Actual kW		2.3	3.0		4.0	5.3		5.5	7.3		7.5	9.9	
Minimum current ampacity, 1Ph	amp	11.6	13.3	6.9	19.9	22.9	11.7	27.3	31.4	16.0	37.0	42.2	21.3
Full load amps, 1Ph*		11.1	12.8	6.4	19.4	22.4	11.2	26.8	30.9	15.5	36.5	41.7	20.8
Minimum current ampacity, 3Ph		7.0	8.0	4.4	11.8	13.5	7.2	16.0	18.4	9.6	21.6	24.6	12.7
Full load amps, 3Ph*		6.5	7.5	3.9	11.3	13.0	6.7	15.5	17.9	9.1	21.1	24.1	12.2
Maximum overcurrent protection**		20.0	15.0		25.0		15.0	30.0		20.0	45.0	50.0	30.0
Temperature rise	°F	22			33			32			33		

*Includes fan motor

**Circuit breaker size

Setting	Parameter	Unit of Measure	Unit Size (kW)						
			15			20		25	30
			Voltage						
			208	240	480	240	480	480	480
—	Minimum current ampacity, 3Ph	amp	32.5	37.4	19.3	49.4	25.4	31.4	37.4
Low heat	Nominal kW	kW	7.4	10.0				15.0	20.0
	Actual kW		5.6						
	Full load amps, 3Ph*	amp	26.8	41.3	20.6	41.7	20.8	31.3	25.0
	Maximum overcurrent protection**		40.0	45.0	25.0	60.0	40.0		45.0
	Temperature rise	°F	19	26		24		29	28
High heat	Nominal kW	kW	15.0	15.0		20.0		25.0	30.0
	Actual kW		11.3						
	Full load amps, 3Ph*	amp	31.5	36.4	18.3	48.4	24.4	30.4	36.4
	Maximum overcurrent protection**		40.0	45.0	25.0	60.0	40.0		45.0
	Temperature rise	°F	39			49			57

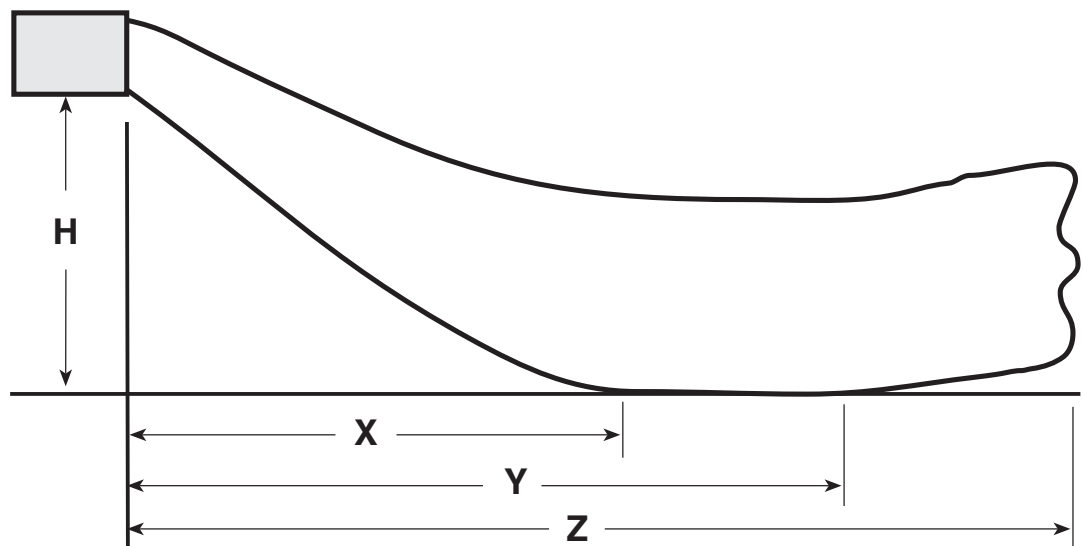
*Includes fan motor

**Circuit breaker size

EUH TECHNICAL DATA CONTINUED

Heater Throw Distances with Standard Horizontal Louvers

The graphic shows throw patterns and the table lists throw distances for heaters suspended at varying mounting heights. The louver angles listed are relative to the top of the heater.

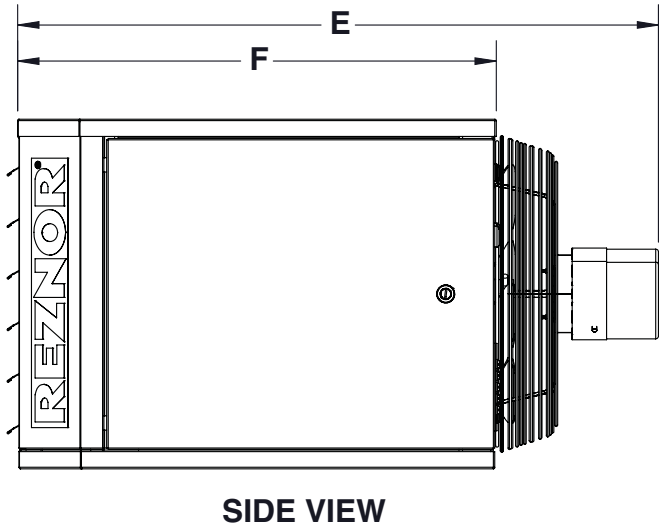
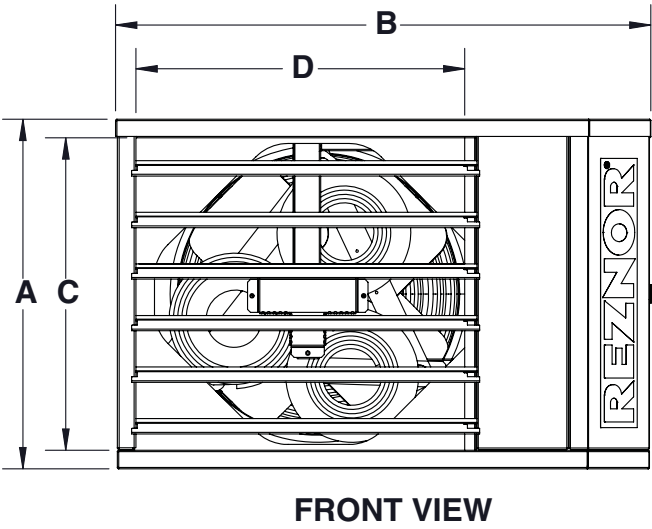
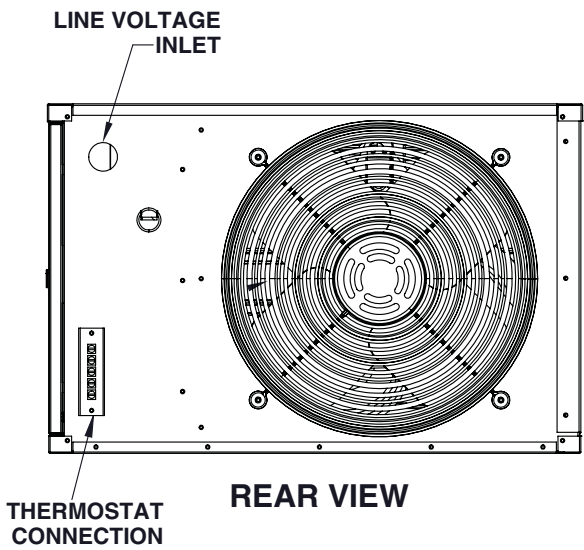
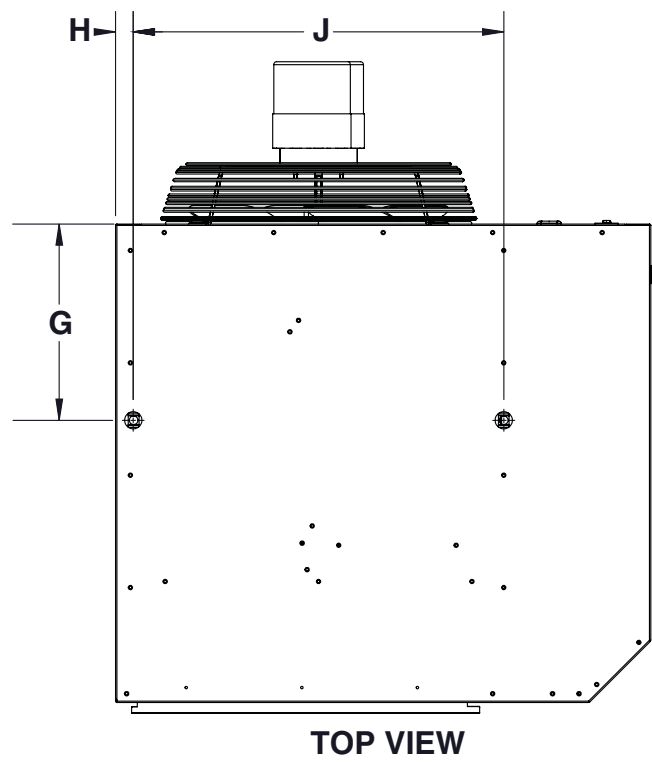


- H = Distance from bottom of heater to the floor
- X = Distance from heater to start of floor coverage
- Y = Distance to end of floor coverage
- Z = Distance at which air velocity drops below 50 feet (15.2 meters) per minute

H* (Feet (Meters))	Distance* or Angle	Unit Size (kW)							
		3	5	7	10	15	20	25	30
		Feet (Meters)							
6 (1.8)	X	4 (1.2)	5 (1.5)	7 (2.1)	6 (1.8)	13 (4.0)	11 (3.4)	10 (3.0)	
	Y	8 (2.4)	13 (4.0)	15 (4.6)	14 (4.3)	19 (5.8)	23 (7.0)	28 (8.5)	27 (8.2)
	Z	18 (5.5)	22 (6.7)	36 (11.0)		37 (11.3)		42 (12.8)	41 (12.5)
	Downward louver angle	36°	27°			22°			
8 (2.4)	X	—	5 (1.5)	9 (2.7)	6 (1.8)	14 (4.3)	11 (3.4)	9 (2.7)	8 (2.4)
	Y		10 (3.0)	15 (4.6)	14 (4.3)	19 (5.8)	28 (8.5)		
	Z		16 (4.9)	32 (9.8)	36 (11.0)	37 (11.3)	39 (11.9)		
	Downward louver angle		36°	34°	30°	27°			
10 (3.0)	X	—		6 (1.8)	6 (1.8)	13 (4.0)	12 (3.7)	8 (2.4)	9 (2.7)
	Y			15 (4.6)	14 (4.3)	18 (5.5)	28 (8.5)	27 (8.2)	25 (7.6)
	Z			26 (7.9)	34 (10.4)		38 (11.6)	36 (11.0)	
	Downward louver angle			36°		32°			
12 (3.7)	X	—		12 (3.7)	10 (3.0)	11 (3.4)	10 (3.0)	12 (3.7)	10 (3.0)
	Y			14 (4.3)	15 (4.6)	16 (4.9)	22 (6.7)	24 (7.3)	22 (6.7)
	Z			20 (6.1)	33 (10.0)	27 (8.2)	31 (9.4)	34 (10.4)	
	Downward louver angle			36°		45°		36°	
14 (4.3)	X							12 (3.7)	
	Y							18 (5.5)	16 (4.9)
	Z							25 (7.6)	
	Downward louver angle							45°	

* See graphic above

EUH DIMENSIONS



Cabinet Size	Unit Size (kW)	Dimension (See Graphic Above)								
		A	B	C	D	E	F	G*	H	J
		Inches (mm)								
1	3, 5, 7, 10	15-1/4 (388)	23-11/32 (593)	13-5/8 (347)	14-11/32 (365)	27-31/32 (711)	20-7/8 (531)	8-1/2 (216)	25/32 (20)	16-5/32 (411)
2	15, 20, 25, 30	21-1/8 (537)	28-5/32 (716)	19-1/2 (496)	19-11/32 (492)	33-13/32 (849)	24-3/4 (629)	10-1/2 (267)		21-7/32 (539)

* Hanger dimension for two-point suspension

EGW ECONOMICAL UNIT HEATER

FEATURES

COLOR

- Standard: almond

FINISH

- Standard: epoxy/polyester powder paint

VOLTAGE

- 240/208V, 1-phase

CONSTRUCTION

- 20-gauge steel
- Adjustable louvres to control warm airflow
- High-limit temperature control with automatic reset (first level)

FAN

- 300 cfm fan (51 dBA)
- Totally enclosed factory-lubricated motor

HEATING ELEMENT

- Helical coil nickel-chromium alloy wire provides instant heat



CONTROL

- Built-in thermostat included

INSTALLATION

- Wall or ceiling mounting using the supplied brackets which allow 360° rotation of the heater and prevent it from tipping over

APPLICATION

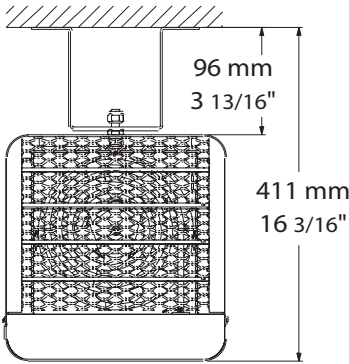
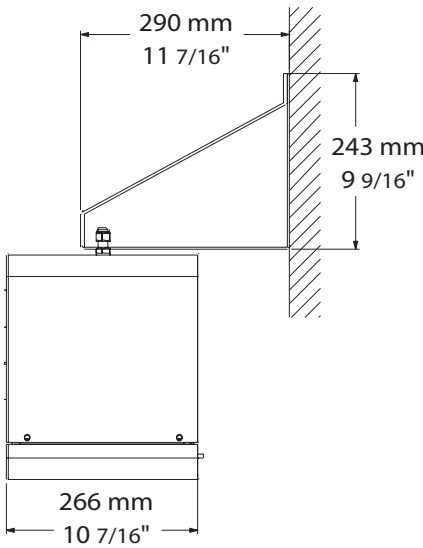
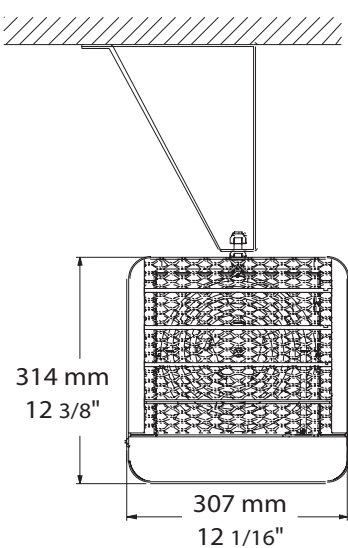
- Garage, workshop

MODELS

		Size	2	3	5
Heating Capacity	@208/1	Watts	1500	2250	3750
		BTUH	5118	7677	12795
	@240/1	Watts	2000	3000	5000
		BTUH	6824	10236	17060
Ship Weight		Lbs	20	20	20
		Kg	9.1	9.1	9.1



Built-in thermostat and mounting brackets included.



EXUB EXPLOSION-RESISTANT UNIT HEATER

FEATURES

COLOR

- Standard: red

FINISH

- Standard: epoxy/polyester powder paint

VOLTAGE

- 208V, 240V, 480V, 600V, 1 or 3-phase

CONSTRUCTION

- 14-gauge steel cabinet
- Adjustable anodized aluminum louvers
- Cast aluminum control and element enclosure lids NEMA Type 7 and 9 with O-ring
- Fan Guard: multiple horizontal stiffening wires

PROTECTION

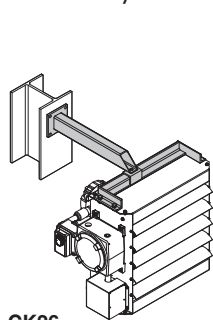
- High temperature pressure relief device
- Two high-limit temperature controls: one with automatic reset and one with manual reset

FAN

- Explosion-resistant, thermally protected, permanently lubricated ball bearing motor
- 3 to 20kW: 1/4 HP, 1725 rpm
- 25 to 35kW: 1/2 HP, 1725 rpm

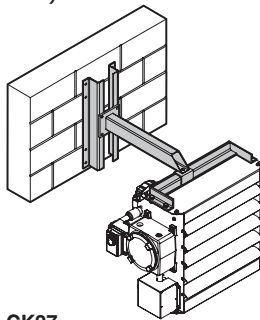
TEMPERATURE CODE

- Division System: 5 - 30kW: T3B 165 °C (329 °F)
3/35kW: T3A 180 °C (356 °F)
- Zone System: T3 200 °C (392 °F)



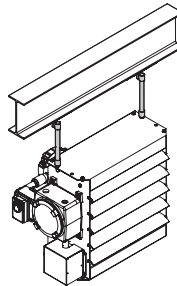
CK26

Basic Mounting Bracket
Suitable for applications where the support arm can be bolted or welded directly to structural steel or concrete.



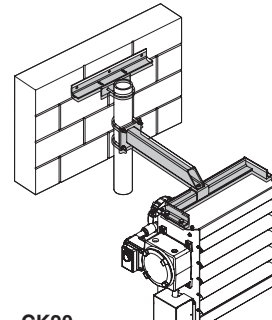
CK27

Wall Mounting Bracket
For use in buildings that have substantial walls. The Z sections provide additional support where necessary.



CK25

Hanging Mounting Bracket
Ideal and economical if adequate overhead structure exists. Requires 1/2 in. (12.5 mm) pipe, cut and threaded (min. Sch. 40) not supplied.



CK20

Pipe Mounting Bracket
For buildings with insufficient strength to use other types of mounting brackets. Requires 3 in. (75 mm) pipe (3 1/2 in. [87.5 mm] O.D., min. Sch. 40) not supplied.



HEAT EXCHANGER

- High grade metal-sheathed elements fins with ethylene glycol/water solution.
- Long-life, low watt density.
- Evacuated and sealed, carbon steel tube core with 10 aluminum fins per inch

CONTROL

- 120V control (standard)
- Optional 24V control
- Optional built-in or wall thermostat
- Optional disconnect switch

INSTALLATION

- Accessories available

APPLICATION

- Paint room, petrochemical plant, refinery, chemical plant, mining industry, sawmill

Consult the Electrical Code in your area before installing this unit.

EXUB EXPLOSION-RESISTANT UNIT HEATER continued

MODELS

		Size	3	5	7	10	15	20	25	30
Heating Capacity		kW	3	5	7.5	10	15	20	25	30
		MBH	10	17	26	34	51	68	85	102
Airflow		cfm	350	400	600	800	1200	1700	2100	3000
		°F	32	38.1	40.4	38.8	39.1	37.3	37.5	31.5
Temperature Rise		°C	18	21.2	22.4	21.6	21.7	20.7	20.8	17.5
T° Code		T3B = 329°F / 165°C								
Ship Weight		Lbs	188	188	188	192	224	224	261	261
		Kg	85.3	85.3	85.3	87.1	101.6	101.6	118.4	118.4
Factory Installed Options										
Supply Voltage/Phase	208/1	AK2	✓	✓	✓	■	■	■	■	■
	208/3	AK5	✓	✓	✓	✓	✓	■	■	■
	240/1	AK3E	✓	✓	✓	✓	■	■	■	■
	240/3	AK6E	✓	✓	✓	✓	✓	■	■	■
	480/3	AK7E	✓	✓	✓	✓	✓	✓	✓	✓
	600/3	AK8E	✓	✓	✓	✓	✓	✓	✓	✓
Internal Thermostat		IX34	✓	✓	✓	✓	✓	✓	✓	✓
Control Voltage	120V Controls	STD	✓	✓	✓	✓	✓	✓	✓	✓
	24V Controls	BT1	✓	✓	✓	✓	✓	✓	✓	✓
Disconnect Switch		BAX1	✓	✓	✓	✓	✓	✓	✓	✓
Field Installed Options (shipped separately)										
		Size	3	5	7	10	15	20	25	30
Mounting Accessories	Pipe hanger brackets (1/2" pipe not included)	CK25	✓	✓	✓	✓	✓	✓	✓	✓
	Wall mounting arm with flange (bolt or weld to steel or concrete)	CK26	✓	✓	✓	✓	✓	✓	✓	✓
	Wall mounting arm with "Z" supports (block wall)	CK27	✓	✓	✓	✓	✓	✓	✓	✓
	Pole mounting arm (requires 3.5" OD pipe - not included)	CK20	✓	✓	✓	✓	✓	✓	✓	✓
		CK25	5	5	5	5	5	5	5	5
		CK26	17	17	17	17	19	19	20	20
Ship Weight (lbs)		CK27	24	24	24	24	26	26	27	27
		CK20	24	24	24	24	26	26	27	27
Explosion-Resistant Wall Thermostat (40°-80°F)		CX1	✓	✓	✓	✓	✓	✓	✓	✓
Explosion-Resistant Wall Disconnect Switch		XDC-01	✓	✓	✓	✓	✓	✓	✓	✓

Standard color is red.

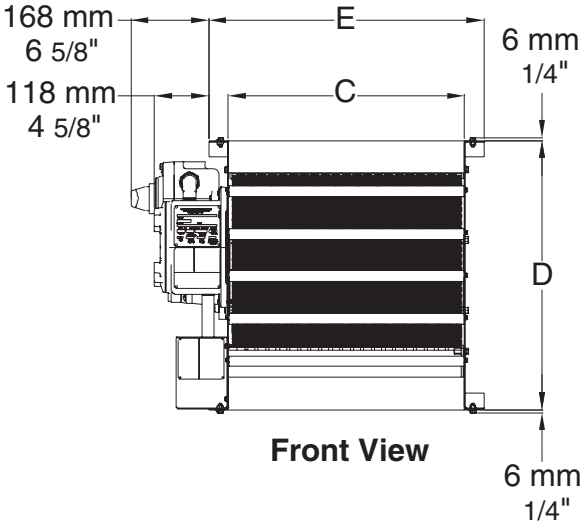
APPROVED LOCATIONS

Class I, Divisions 1 and 2, Groups C and D.
Class II, Divisions 1 and 2, Groups F and G.
Temperature code: T3B (5 to 30kW), T3A (35kW).
Class I, Zones 1 & 2 , Groups IIA & IIB, T3.

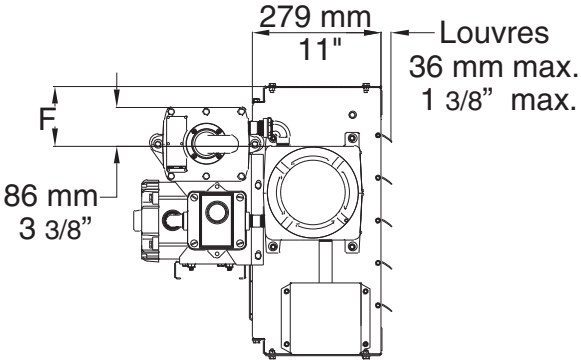
TEMPERATURE LIMITATIONS

Ambient temperature: -45 °C to 40 °C (-49 °F to 104 °F).
Maximum altitude: 3048 m (10 000 ft.) above sea level.

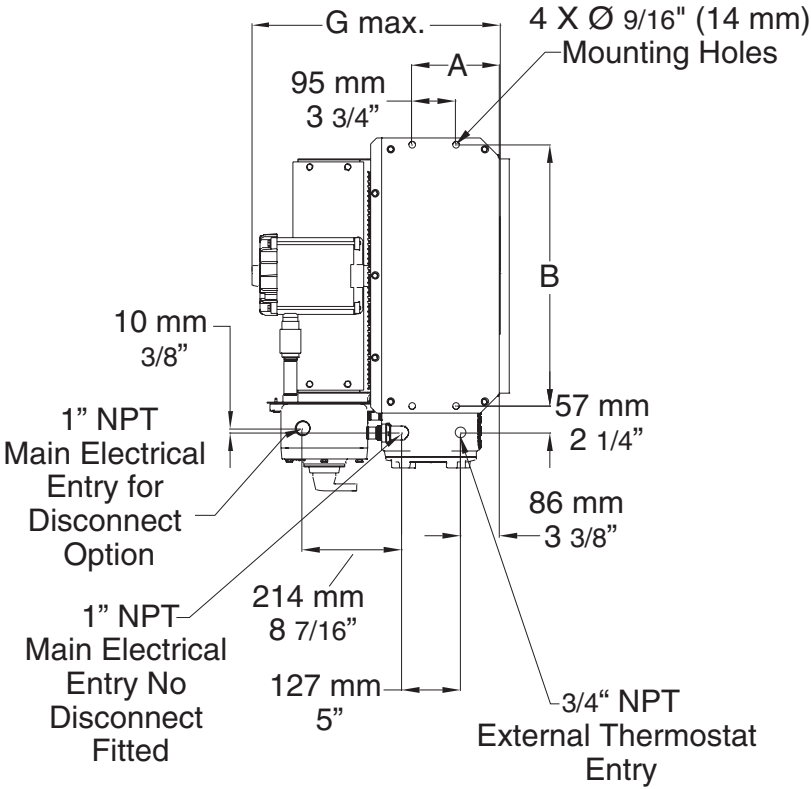
EXUB EXPLOSION-RESISTANT UNIT HEATER continued



Front View



Side View



Top View

Models	5 - 10kW		15 - 20kW		25 - 35kW	
	inch	mm	inch	mm	inch	mm
Fan	12	305	16	406.4	20	508
A	7.5	190.5	7.5	190.5	7.5	190.5
B	18.19	462	22.28	566	26.26	667
C	16.3	414	20.28	515	24.29	617
D	19	483	23	584	27	686
E	19.45	494	23.46	596	27.44	697
F	3.1	79	5.1	130	7.1	180
G	22.25	565	22.25	565	23.25	591

EWHB WASH DOWN UNIT HEATER

FEATURES

VOLTAGE

- 208V, 240V, 480V, 600V, 1 or 3-phase

CONSTRUCTION

- 16-gauge, stainless steel, moisture and corrosion resistant housing
- Adjustable, stainless steel outlet louvers
- Stainless steel rear grille to protect against accidental contact with the fan blade
- High-limit temperature control with automatic reset (manual reset available upon request)
- NEMA 4X non-metallic electrical enclosure
- Disconnect switch (40A max.) available

FAN

- Anodized aluminum, delayed-action fan.
- Enclosed motor with permanently lubricated ball bearing for longer life
- Epoxy-painted fan

HEATING ELEMENT

- Sealed tubular heating element with stainless steel fins

CONTROL

- 24V control circuit with transformer and contactor
- Built-in capillary thermostat included
- Pilot light "power-on indicator" included
- Fan switch control available

MODELS

		Size	3	5	7	10	15	20	25	30	38
Heating Capacity		kW	3	5	7.5	10	15	20	25	30	38.4
		MBH	10	17	26	34	51	68	85	102	131
Airflow		cfm	700	700	700	1450	2400	2400	2400	2400	2400
		°F	14	24	35	22	21	28	35	42	54
Temperature Rise		°C	8	13	19	12	12	16	19	23	30
		Ft	26	26	26	43	50	50	50	50	50
Air Throw		M	8	8	8	13	15	15	15	15	15
		Lbs	70	70	70	70	130	130	130	130	130
Ship Weight		Kg	32	32	32	32	59	59	59	59	59
Factory Installed Options											
Supply Voltage/ Phase	208/1	AK2	✓	✓	✓	■	■	■	■	■	■
	208/3	AK5	✓	✓	✓	✓	✓	■	■	■	■
	240/1	AK3E	✓	✓	✓	✓	■	■	■	■	■
	240/3	AK6E	✓	✓	✓	✓	✓	■	■	■	■
	480/3	AK7E	✓	✓	✓	✓	✓	✓	✓	✓	✓
	600/3	AK8E	✓	✓	✓	✓	✓	✓	✓	✓	✓
Control Voltage	24V Controls with Contactor	STD	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fan Switch	Unit Mounted, Water Tight	BF4B	✓	✓	✓	✓	✓	✓	✓	✓	✓
Disconnect Switch	Water Tight, 600V, 3-Pole, 40A	BA5A	✓	✓	✓	✓	✓	✓	✓	✓	■
Pilot Light	(included)	BE13									
Thermostat	Internal, Water Tight (included)	ICI8	✓	✓	✓	✓	✓	✓	✓	✓	✓
Field Installed Options (shipped separately)											
		Size	3	5	7	10	15	20	25	30	38
Thermostat	NEMA 4X, range 4 °C to 43 °C (40 °F to 110 °F): 25A at 120V, 208V, 240V - 22A at 277V	CL5A	✓	✓	✓	✓	✓	✓	✓	✓	✓



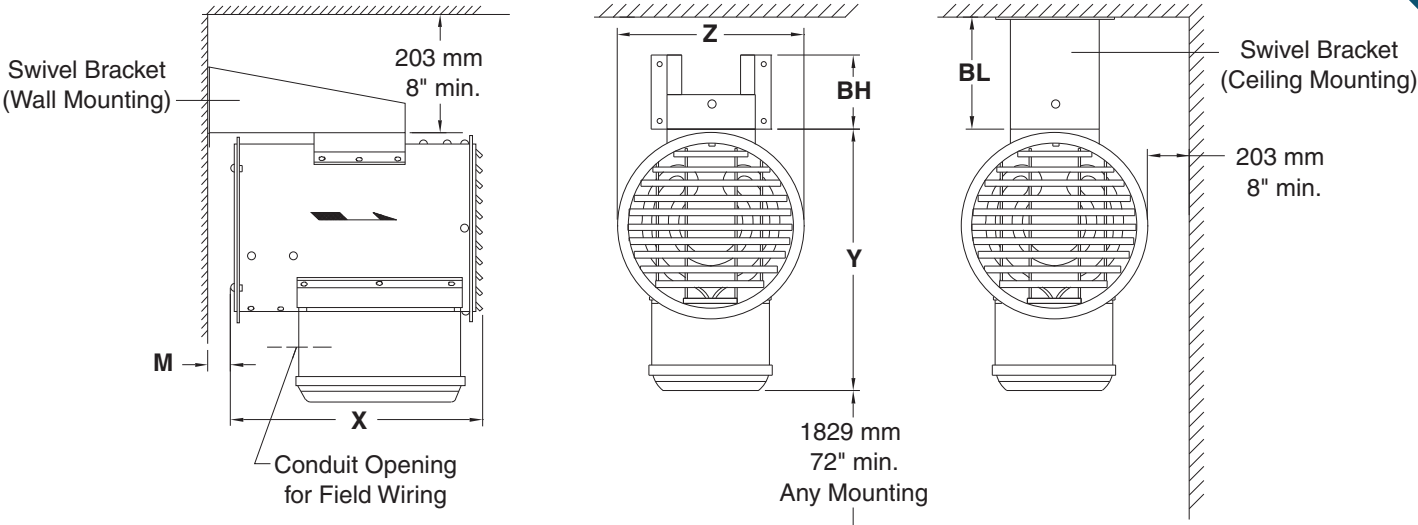
INSTALLATION

- Electrical enclosure located at bottom of unit for ease of installation and servicing
- Stainless steel swivel mounting bracket included, for wall or ceiling mounting

APPLICATION

- Food industry, water treatment plant, marine and offshore, car wash, dairy

EWHB WASH DOWN UNIT HEATER continued



Models	X		Y		Z		BH		BL		M		Weight ¹	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
3 - 7.5kW	390	15 1/2	550	21 1/2	330	13	110	4 1/4	490	19 1/8	220	8 1/2	70	32
7.6 - 12kW	390	15 1/2	550	21 1/2	330	13	110	4 1/4	490	19 1/8	220	8 1/2	70	32
12.1 - 47kW	660	26	710	28	510	20	180	7 1/8	570	22 1/4	80	3 1/4	130	60

¹ Shipping weight.



ECR/ECS CEILING FORCED-AIR DIFFUSER

FEATURES

COLOR

- White or almond options

FINISH

- Standard: epoxy/polyester powder paint

VOLTAGE

- 208V, 240V, 277V, 347V, 480V, 600V, 1 or 3-phase

CONSTRUCTION

- Outlet grille made of flat ribbon wire
- High-limit temperature control with automatic reset

FAN

- Totally enclosed and lifetime-lubricated ball bearing motor
- Fan delay purges heater of residual heat

HEATING ELEMENT

- Three stainless steel tubular heating elements with aluminum fins

CONTROL

- Line voltage control standard
- Built-in 240V contactor for: all units from 5 to 10kW, all units at 347V, 480V, 600V, all units at 3-phase
- 24V and 120V control circuit available
- Built-in tamper-proof thermostat available
- 24V relay (with or without transformer) available
- Continuous circulation controlled by a built-in switch with power-on indicator light available (-CV)

Any remote thermostat or relay must be connected to the heater control terminal block

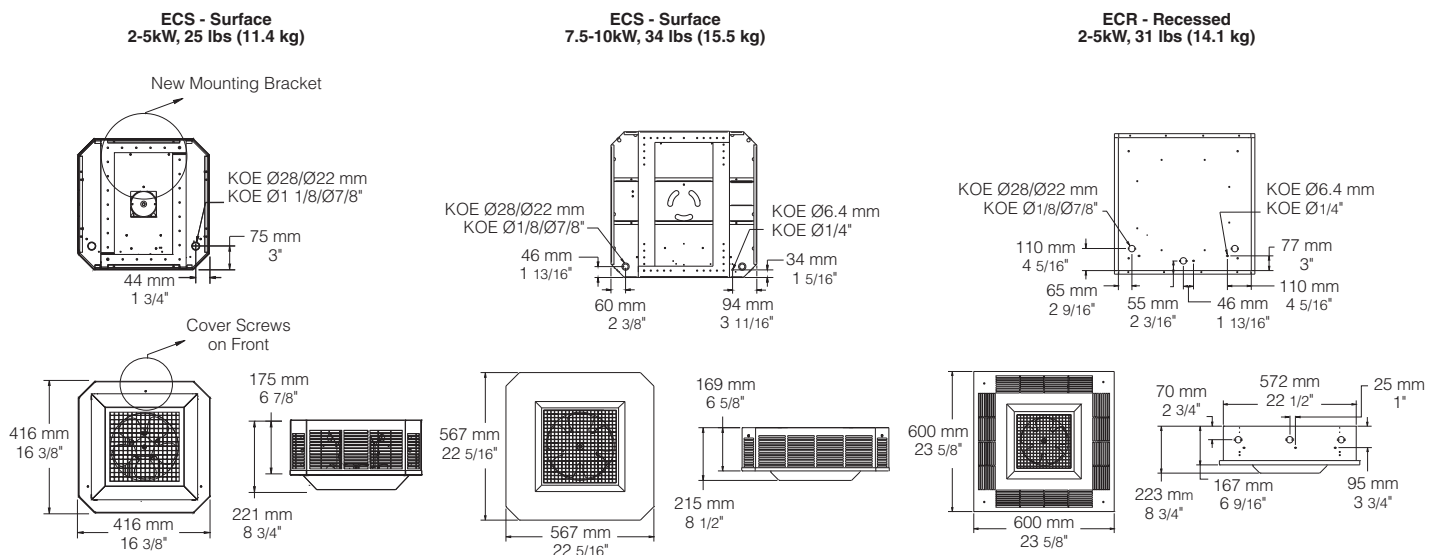


INSTALLATION

- Recommended height: between 8 ft (2.4 m) and 12 ft (3.6 m)
- Recessed into insulated or T-bar ceiling (ECR)
- Surface mounting (ECS)

APPLICATION

- Apartment building, commercial building, drop ceiling, stairwell, garage



ECR/ECS CEILING FORCED-AIR DIFFUSER continued

MODELS

			Size	2	3	4	5	7	10
ECS	Ceiling Fan Heater - Forced Air Diffuser, Ceiling Surface Mounted	Heating Capacity	W	2000	3000	4000	5000	7500	10000
			BTUH	6800	10250	13650	17075	25600	34150
			cfm	310	310	310	310	600	600
		Ship Weight	Lbs	25/31	25/31	25/31	25/31	34	34
			Kg	11/14	11/14	11/14	11/14	15	15
ECR	Ceiling Fan Heater - Forced Air Diffuser, Ceiling Recessed Mounted	Heating Capacity	Size	2	3	4	5		
			W	2000	3000	4000	5000		
			BTUH	6800	10250	13650	17075		
		Ship Weight	cfm	310	310	310	310		
			Lbs	31	31	31	31		
			Kg	14	14	14	14		
Factory Installed Options									
Supply Voltage/Phase		208/1 ⁶	AK2	✓	✓	✓	✓	✓	✓
		208/3 ⁶	AK5	✓	✓	✓	✓	✓	✓
		240/1	AK3E	✓	✓	✓	✓	✓	✓
		240/3	AK6E	✓	✓	✓	✓	✓	✓
		277/1	AK4	✓	✓	✓	✓	✓	✓
		347/1	AK34	✓	✓	✓	✓	✓	✓
		480/1	AK9E	✓	✓	✓	✓	✓	✓
		480/3	AK7E	✓	✓	✓	✓	✓	✓
		600/1	AK10	✓	✓	✓	✓	✓	✓
		600/3	AK8E	✓	✓	✓	✓	✓	✓
Cabinet Color (Lead times may be increased for color other than white)		White	HK1	✓	✓	✓	✓	✓	✓
		Almond	HK2	✓	✓	✓	✓	✓	✓
Control Voltage		208V, 240V, 277V ¹	STD	✓	✓	✓	✓	✓	✓
		24V Relay with Transformer	BT1	✓	✓	✓	✓	✓	✓
		120V Control Circuit	BT2	✓	✓	✓	✓	✓	✓
Internal Tamper-proof Thermostat			ICI5	✓	✓	✓	✓	✓	✓
Disconnect Switch ²		Up to 277V, 2-Pole, 20A	BA21	✓	✓	✓	✓	■	■
		600V, 3-Pole, 40A	BA14	✓	✓	✓	✓	✓	✓
		600V, 3-Pole, 80A	BA15	✓	✓	✓	✓	✓	✓
Terminals for Remote Fan		Includes Pilot Light	BB12	✓	✓	✓	✓	✓	✓
Field Installed Options (shipped separately)									
			Size	2	3	4	5	7	10
Wall Mounted Thermostat	Single-pole, low-voltage ³		CL1A	✓	✓	✓	✓	✓	✓
	Single-pole, single-stage		CL5	✓	✓	✓	✓	✓	✓
24V Control Relay Kit ⁴	Without transformer		IR24	✓	✓	✓	✓	✓	✓
Mounting Accessory ⁵	Adapter for T-Bar ceiling (Model ECS only)		CK20	✓	✓	✓	✓	■	■

¹ 208V/240V is standard on all units except 277V/1. Contactors are standard on 3-phase units and single phase units 5 kW and larger or over 300V.

² For the U.S. only: The nominal current of the unit must not exceed 80% of the capacity of the disconnect.

³ CL1A thermostat requires option BT1

⁴ IR24: 24V signal by others (multiple units per thermostat).

⁵ For surface mount Model ECS only. Model ECR lays into T-Bar grid. No adapter is required.

⁶ ECS10 is rated at 9.9kW at 208V.

EMC FORCED-AIR CABINET UNIT HEATER

FEATURES

COLOR

- White or almond options

FINISH

- Standard: epoxy/polyester powder paint

VOLTAGE

- 208V, 240V, 277V, 347V, 480V, 600V, 1 or 3-phase

CONSTRUCTION

- 18-gauge steel
- Extruded aluminum bar grilles prevent insertion of foreign objects
- Field changeable air inlet and outlet
- High-limit temperature control with automatic reset
- 240V control circuit included
- Optional fresh air inlet damper
- Optional air filters

FAN

- Direct drive, variable speed squirrel-cage fan operating
- Fan delay
- 240/208V factory-lubricated motor (1/15 HP)
- 2 speed-motor available (1600/1500 rpm)



HEATING ELEMENT

- Durable tubular heating element with fins

CONTROL

- Wide range of control available

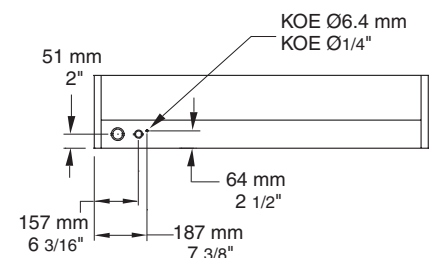
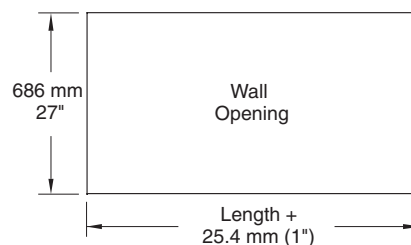
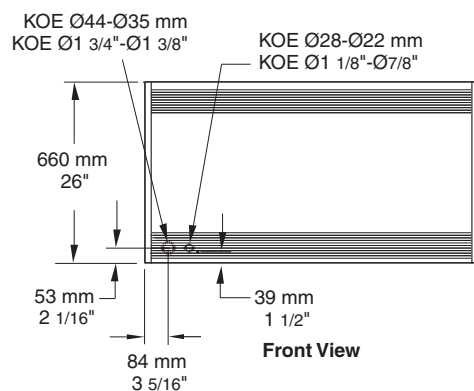
Manufacturer highly recommends the use of a wall thermostat for greater comfort.

INSTALLATION

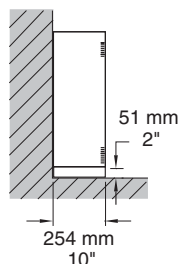
- Multi-position mounting (surface, semi-recessed, recessed)
- Maximum recommended installation height: 10 ft (3 m)
- Recess trim kit available for recessed or semi-recessed units
- Sub-base and special back plate available

APPLICATION

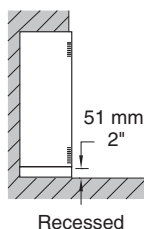
- Hallway, entry way, exhibition center



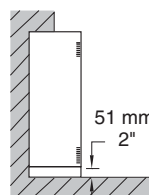
Installation with Sub-Base



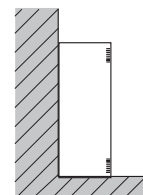
Installation with Recess Trim Kit



Recessed



Semi-Recessed



Surface Installation

EMC FORCED-AIR CABINET UNIT HEATER continued

MODELS

MODELS			Size	2	3	4	5	6	8	10	12	15	18	20	24
Heating Capacity	High	W	2000	3000	4000	5000	6000	8000	10000	12000	15000	18000	20000	24000	
		MBH	6825	10250	13650	17075	20500	27325	34150	40975	51225	61475	68300	81950	
	Low	W	1333	1000	2667	3333	4000	4000	5000	6000	10000	12000	10000	12000	
		MBH	4550	3400	9100	11375	13650	13650	17075	20500	34150	40975	34150	40975	
Airflow	High	cfm	250	250	250	250	250	500	500	500	750	750	1000	1000	
	Low	cfm	200	200	200	200	200	400	400	400	600	600	800	800	
Ship Weight		Lbs	115	115	115	115	115	146	146	146	210	210	240	240	
		Kg	52.3	52.3	52.3	52.3	52.3	66.4	66.4	66.4	95.5	95.5	109.1	109.1	
Cabinet Lengths		in	28	28	28	28	28	48	48	48	66	66	80	80	
		mm	711	711	711	711	711	1219	1219	1219	1676	1676	2032	2032	
Factory Installed Options															
Supply Voltage/Phase		208/1	AK2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		208/3	AK5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		240/1	AK3E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		240/3	AK6E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		277/1	AK4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		347/1	AK34	✓	✓	✓	✓	✓	✓	✓	■	■	■	■	■
		480/1	AK9E	✓	✓	✓	✓	✓	✓	✓	■	■	■	■	■
		480/3	AK7E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		600/1	AK10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		600/3	AK8E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cabinet Color (Lead times may be increased for color other than white)	White (STD)	HK1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Almond	HK2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Control Voltage	208V, 240V ¹	STD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	24V with transformer	BT1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Unit Mounted Switches	On / Standby / Heating Switch	BF10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	On / Auto Fan Switch	BF23	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Hi / Low Fan / Heat Switch	BF24	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fresh Air Inlet ²	with Manual Damper	ARB2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	with Motorized Damper	ARB4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Disconnect Switch ³	600V, 3-Pole, 40A	BA14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	600V, 3-Pole, 80A	BA15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Branch Circuit Fusing		BA12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Manual High Limit		BD6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Internal Tamper-proof Thermostat	1-Stage	IC15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Field Installed Options (shipped separately)															
Wall Mounted Thermostats	Single-pole, low-voltage thermostat ⁴	CL1A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Single-pole, single stage thermostat	CL5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
24V Relay Kit ⁵	Without transformer	IR24	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	24V relay with transformer ⁶	IR2B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Filters (Wall Mounted Units Only)	Standard	HZ3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Washable	HX4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sub-Base	2" sub-base for wall mount	HY7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Color Matched Trim Options	Recessed trim kit														
	Smooth finish back plate ⁷														

¹ Standard voltage is 208V/240V unless otherwise noted.

² Do not install a built-in thermostat with these options.

³ For the U.S. only: The nominal current of the unit must not exceed 80% of the capacity of the disconnect.

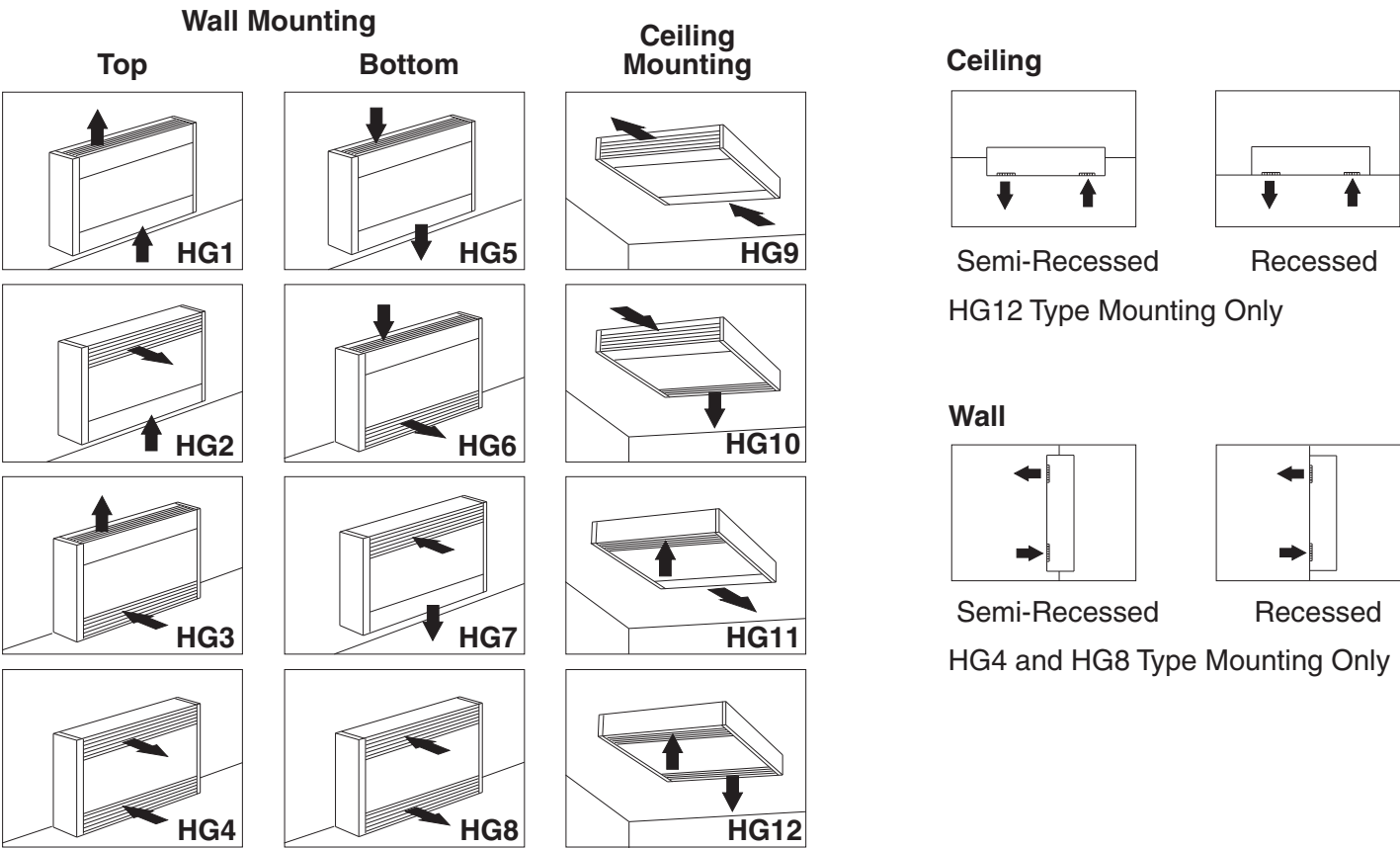
⁴ CL1A thermostat requires BT1 option.

⁵ IR24: 24V signal by others (multiple units per thermostat). IR2B: for 24V thermostat on each unit.

⁶ All heaters have 240V control circuit.

⁷ For mounting heater on glass wall. Configuration HG3, HG4, HG6, & HG8 only.

EMC FORCED-AIR CABINET UNIT HEATER continued



EHA FORCED-AIR ARCHITECTURAL WALL HEATER

FEATURES

COLOR

- White or almond options

FINISH

- Standard: epoxy/polyester powder paint
- Optional: anodized aluminum

VOLTAGE

- 120V, 208V, 240/208V, 277V, 347V, 480V, 600V, 1-phase

CONSTRUCTION

- Extruded aluminum front grille, 1/8 in. (3.2 mm) thick
- Bottom air outlet
- High-limit temperature control with automatic reset

FAN

- Closed, factory-lubricated motor
- 160 cfm fan (single unit: 55 dBA); 2 X 160 cfm fan (double unit: 58 dBA), 3 X 160 cfm fan (triple unit: 61 dBA)
- Fan delay purges heater of residual heat

HEATING ELEMENT

- Durable tubular heating element with fins

CONTROL

- Built-in tamper proof thermostat included
- 24V relay, with or without transformer available

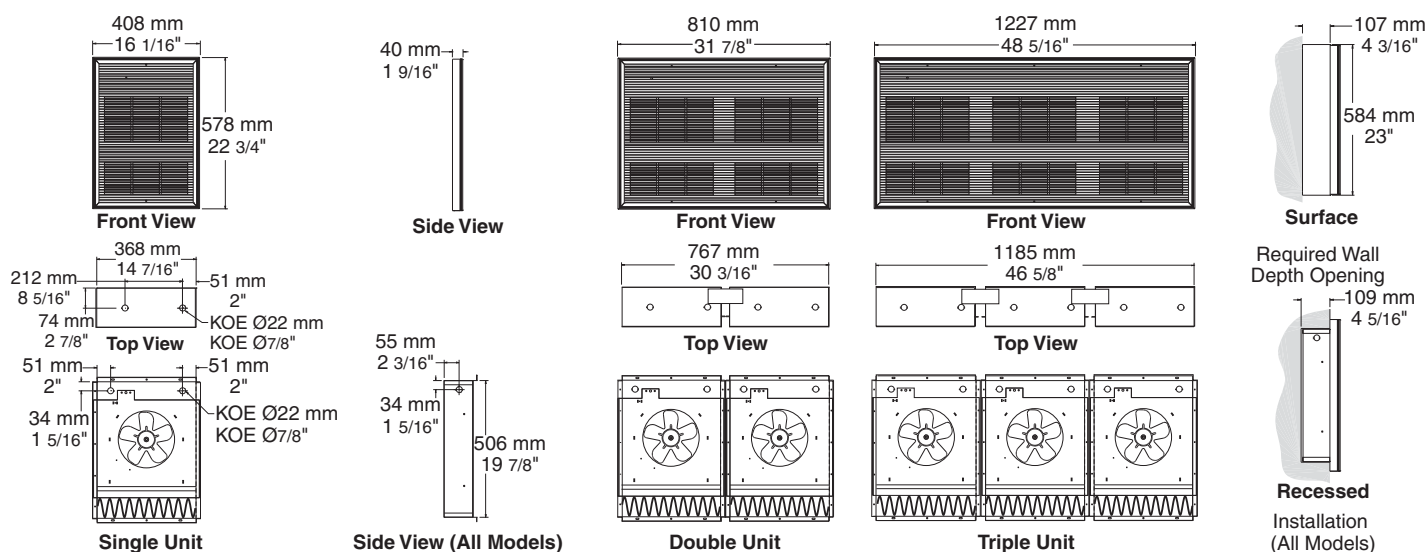
Note: Thermostat is not included in heater with factory installed relay. Any remote thermostat or relay must be connected to the heater control terminal block.

INSTALLATION

- Minimum clearance from the floor and adjacent walls: 10 in. (25.4 cm).
- Adaptor for surface mounting available.
- Up to 3 units can be mounted side-by-side

APPLICATION

- Apartment building, commercial building, entrance way, stairwell, garage



EHA FORCED-AIR ARCHITECTURAL WALL HEATER continued

MODELS

		Size	1	2	3	4	5
Heating Capacity	W		1500	2000	3000	4000	4800
	BTUH		5125	6825	10250	13660	16400
Ship Weight	Lbs		24	24	24	24	24
	Kg		10.9	10.9	10.9	10.9	10.9
Factory Installed Options							
Supply Voltage/Phase	120/1	AK1E	✓	■	■	■	■
	208/1	AK2	■	✓	■	✓	✓
	240/1 ¹	AK3E	✓	✓	✓	✓	■
	277/1	AK4	✓	✓	✓	✓	✓
	480/1	AK9E	✓	✓	✓	✓	✓
Cabinet Color (Lead times may be increased for color other than white)	White	HK1	✓	✓	✓	✓	✓
	Almond	HK2	✓	✓	✓	✓	✓
Thermostat	Hidden, tamper-proof, built-in thermostat	STD	✓	✓	✓	✓	✓
Control Voltage	120V, 208V, 240V, 277V & 480V	STD	✓	✓	✓	✓	✓
	24V Relay with transformer ²	BT1	✓	✓	✓	✓	✓
Disconnect Switch ³	Up to 277V, 2-pole, 20A	BA21	✓	✓	✓	✓	✓
	600V max., 3-pole, 40A	BA14	✓	✓	✓	✓	✓
Field Installed Options (shipped separately)							
		Size	1	2	3	4	5
Color Matched Trim Packages	Surface mounting box required for non-recessed units	HY6	✓	✓	✓	✓	✓

¹ Units with Option AK3E (240V supply voltage) can be connected to 208V power supply, but heating output will be reduced by 25%.

² Built-in transformer is not included with 24V control voltage (Option BT1).

³ For the U.S. only: The nominal current of the unit must not exceed 80% of the capacity of the disconnect.



EHC COMMERCIAL WALL HEATER

FEATURES

COLOR

- White or almond options

FINISH

- Standard: epoxy/polyester powder paint

VOLTAGE

- 120V, 208V, 240/208V, 277V, 347V, 480V, 600V, 1 or 3-phase

CONSTRUCTION

- 18-gauge steel front cover
- Bottom air outlet
- High-limit temperature control with automatic reset

FAN

- Closed, factory-lubricated motor
- 160 cfm fan (single unit: 55 dBA); 2 X 160 cfm fan (double unit: 58 dBA); 3 X 160 cfm fan (triple unit: 61 dBA)
- Fan delay purges heater of residual heat

HEATING ELEMENT

- Durable tubular heating element with fins

CONTROL

- Built-in thermostat included with control knob or tamper proof
- 24V relay, with or without transformer available

Note: Thermostat is not included in heater with factory installed relay. Any remote thermostat or relay must be connected to the heater control terminal block.

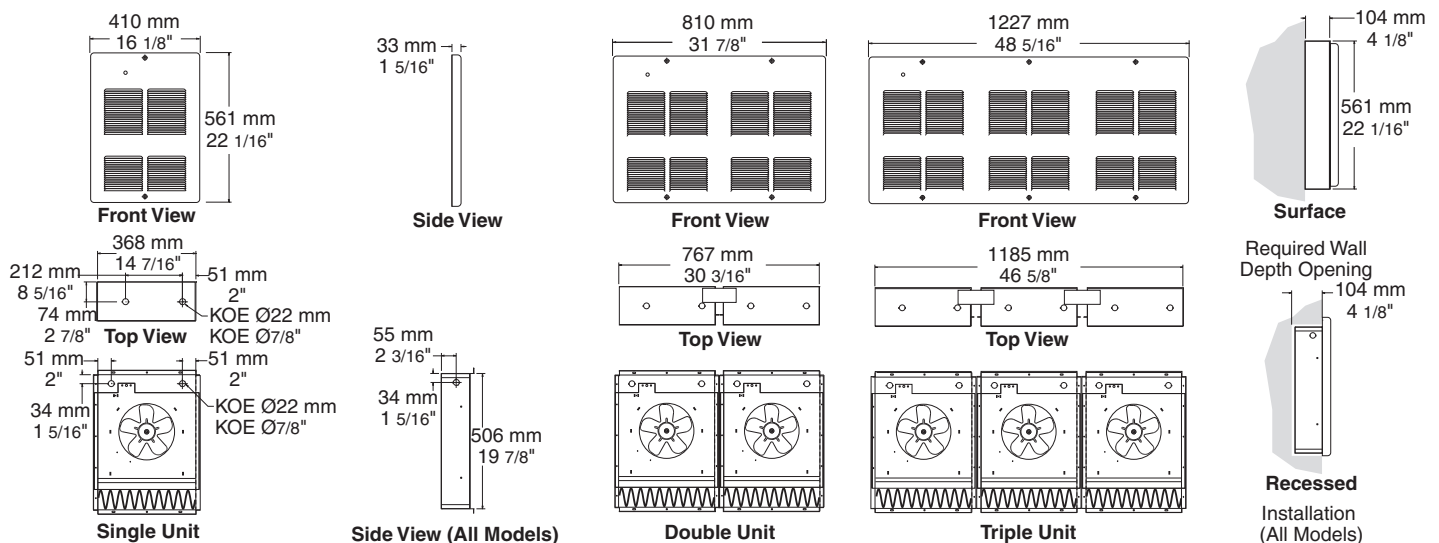


INSTALLATION

- Minimum clearance from the floor and adjacent walls: 10 in. (25.4 cm).
- Adaptor for surface mounting available.
- Up to 3 units can be mounted side-by-side

APPLICATION

- Apartment building, commercial building, entrance way, stairwell, garage



EHC COMMERCIAL WALL HEATER continued

MODELS

		Size	1	2	3	4	5	6	8	12
Heating Capacity		W	1500	2000	3000	4000	4800	6000	8000	12000
		BTUH	5125	6825	10250	13660	16400	20500	27620	40975
Ship Weight		Lbs	24	24	24	24	24	90.0	50	90.0
		Kg	10.9	10.9	10.9	10.9	10.9	40.9	22.7	40.9
Factory Installed Options										
Supply Voltage/ Phase	120/1	AK1E	✓	■	■	■	■	■	■	■
	208/1	AK2	■	✓	■	✓	✓	■	✓	■
	208/3	AK5	■	■	■	■	■	■	■	✓
	240/1 ¹	AK3E	✓	✓	✓	✓	✓	✓	✓	✓
	240/3	AK6E	■	■	■	■	■	■	■	✓
	347/1	AK34	✓	✓	✓	✓	✓	✓	✓	✓
	480/1	AK9E	✓	✓	✓	✓	✓	✓	✓	✓
	480/3	AK7E	■	■	■	■	■	■	■	✓
	600/1	AK10	✓	✓	✓	✓	✓	✓	✓	✓
	600/3	AK8E	■	■	■	■	■	■	■	✓
Cabinet Color	White	HK1	■	■	■	■	■	■	■	✓
	Almond	HK2	✓	✓	✓	✓	✓	✓	✓	✓
Control Voltage	208V, 240V ²	STD	✓	✓	✓	✓	✓	✓	✓	✓
Unit Mounted Fan Switch		BF23	✓	✓	✓	✓	✓	✓	✓	✓
Disconnect Switch ³	Up to 277V, 2-pole, 20A	BA21	✓	✓	✓	✓	✓	✓	✓	✓
	600V, 3-pole, 40A	BA14	✓	✓	✓	✓	✓	✓	✓	✓
	600V, 3-pole, 80A	BA15	✓	✓	✓	✓	✓	✓	✓	✓
Field Installed Options (shipped separately)										
		Size	1	2	3	4	5	6	8	12
Color Matched Trim Packages	Surface mounting box required for non-recessed units	HY6	✓	✓	✓	✓	✓	✓	✓	✓
	1" recessed trim kit	HY4A	✓	✓	✓	✓	✓	✓	✓	✓
	2" recessed trim kit	HY4B	✓	✓	✓	✓	✓	✓	✓	✓

¹ Units with Option AK3E (240V supply voltage) can be connected to 208V power supply, but heating output will be reduced by 25%.

² 208V/240V control (& fan motor) is standard on all units.

³ For the U.S. only: The nominal current of the unit must not exceed 80% of the capacity of the disconnect.



REZNOR®

EHL RESIDENTIAL WALL HEATER

FEATURES

COLOR

- White or almond options

FINISH

- Standard: epoxy/polyester powder paint

VOLTAGE

- 120V, 208V, 240/208V, 1-phase

CONSTRUCTION

- 20-gauge steel cabinet
- 22-gauge steel front cover
- High-limit temperature control with automatic reset

FAN

- Quiet fan operating
- 500W to 1000W; 40 cfm fan and 1250W to 2000W; 80 cfm fan
- Factory-lubricated motor

HEATING ELEMENT

- Durable tubular heating element with fins
- Factory sealed element upon request



CONTROL

- Built-in thermostat available with a control knob or tamper-proof.

Note: If an electronic thermostat is used, it must be compatible with forced-air heaters.

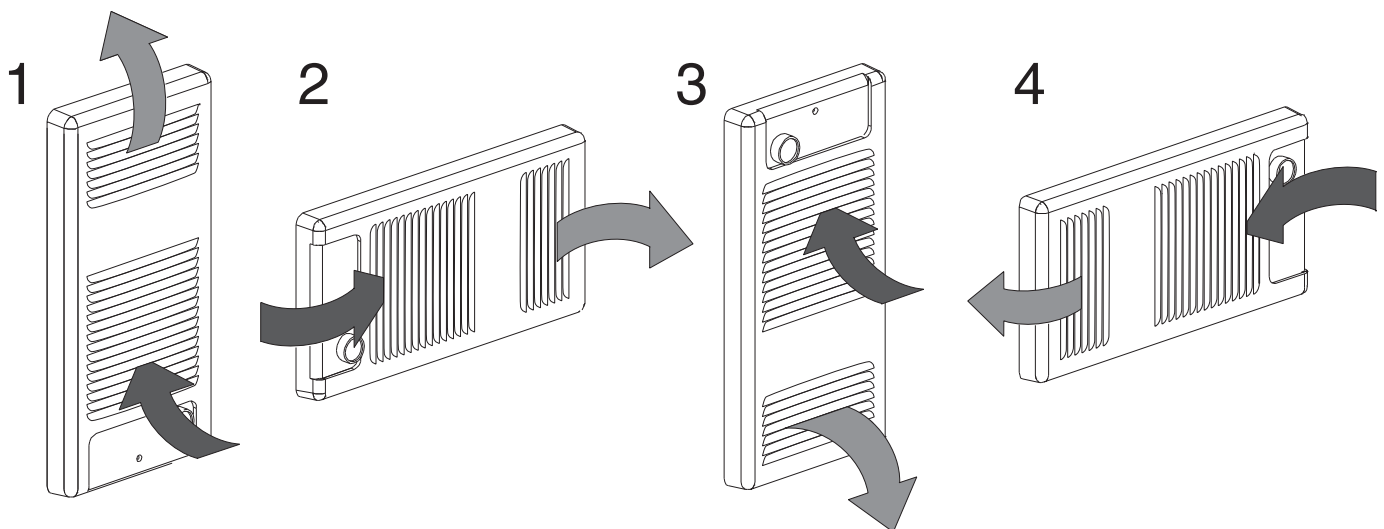
INSTALLATION

- The air outlet should be installed at least 10 in. (25.4 cm) above floor
- Quick installation with recess box mounting holes
- Large wiring compartment
- May be recessed in 2 in. X 3 in. stud partitions
- Surface mounting box available
- Tight fit with V-shaped recess box

APPLICATION

- Entrance way, kitchen, bathroom, family room, basement

Four mounting positions available. Pictures showing front panel. Directional vane airflow.



REZNOR®

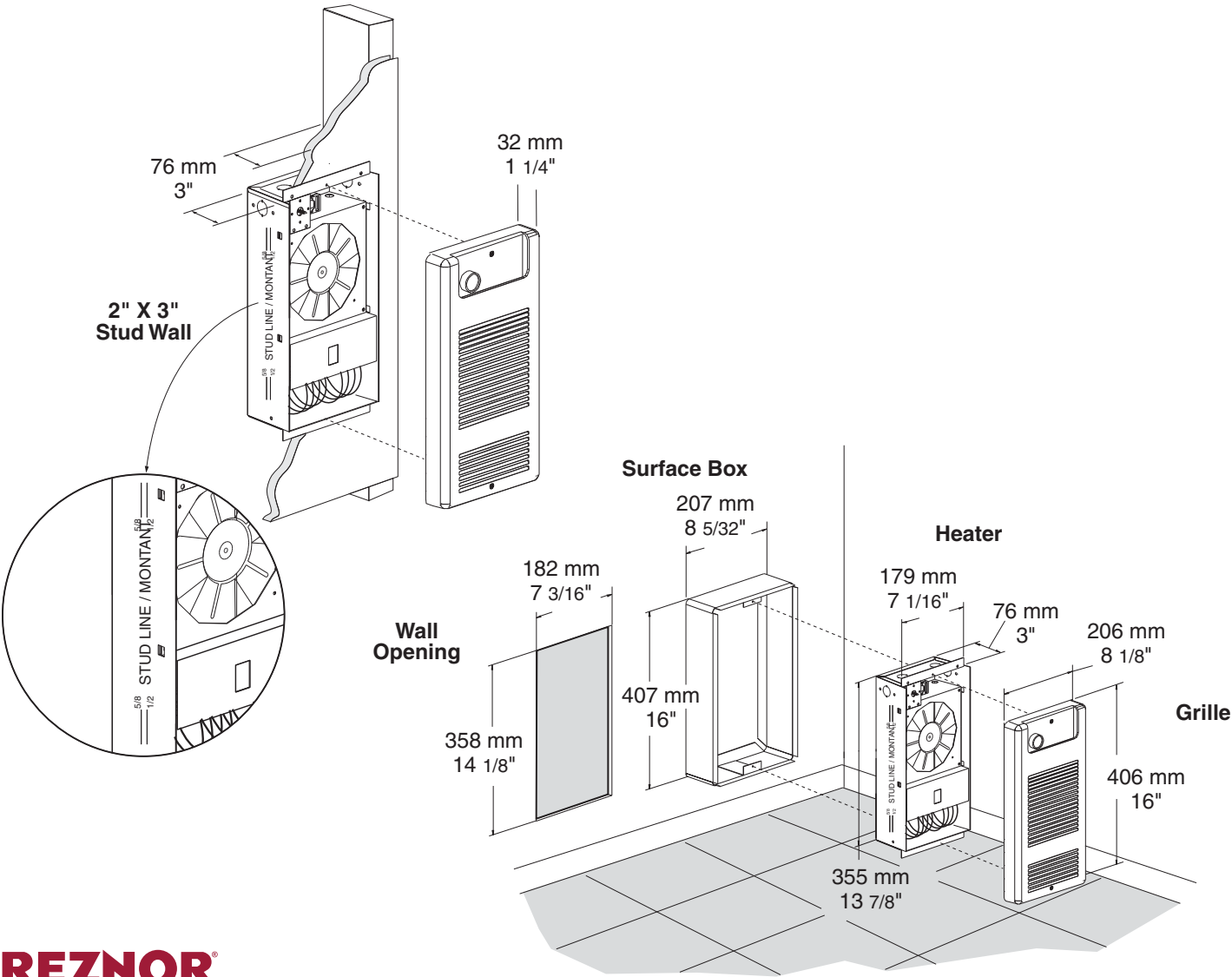
EHL RESIDENTIAL WALL HEATER continued

MODELS

		Size	1000	1500	2000
Heating Capacity	W		1000	1500	2000
	BTUH		3415	5125	6825
Ship Weight	Lbs		9	9	9
	Kg		4	4	4
Factory Installed Options					
Country Code	Canadian Destination/Approvals	BY15	✓	✓	✓
	US Destination/Approvals	BY16	✓	✓	✓
Supply Voltage/Phase	120/1	AK1	✓	✓	■
	240/1 ¹	AK3E	✓	✓	✓
Cabinet Color	White	HK1	✓	✓	✓
	Almond	HK2	✓	✓	✓
Thermostat	Thermostat with control knob	ICI5	✓	✓	✓
Disconnect Switch ²	277 max., 20A	BA21	✓	✓	✓
Field Installed Options (shipped separately)					
		Size	1	2	3
Color Matched Trim Packages	Surface mounting box required for non-recessed units	HY6	✓	✓	✓

¹ Units with Option AK3E (240V supply voltage) can be connected to 208V power supply, heating capacity will be reduced by 25%

² For the U.S. only: The nominal current of the unit must not exceed 80% of the capacity of the disconnect.



EBHB ELECTRIC BASEBOARD HEATER

FEATURES

COLOR

- Standard: Semi-gloss powdered paint finish in white, almond optional
- Optional Special Stock Finishes: See special color chart for available finishes

FINISH

- Standard: 4H pencil hardness epoxy/polyester powder coat paint
- May be repainted with any interior paint

VOLTAGE

- 120V, 208V, 240/208V, 277V, 347V, 480V, 600V, 1-phase

CONSTRUCTION

- Robust 22-gauge tight fit body
- Sturdy 20-gauge front panel with design embossed lines
- Welded 20-gauge junction box to back wrap, easy rear access wiring panel
- Rounded upper corners and junction box sides
- Linear high-limit temperature control with automatic reset
- High altitude version available (-HA) up to 8200 ft

FAN

- Quiet fan operating
- 500W to 1000W; 40 cfm fan and 1250W to 2000W; 80 cfm fan
- Factory-lubricated motor

HEATING ELEMENT

- Stainless steel tubular heating element with aluminum fins
- Floating stainless steel heating element on high-temperature nylon bushings eliminating expansion noises
- Aluminum diamond shape element fins position for maximized heat transfer
- Element locked in place by screw on a stainless steel support

DIMENSION

- See Table on page 28
- Small height and slim depth for economy of space
- Standard watt density and low watt density models



CONTROL

- A wide selection of built-in controls available
- Built-in thermostat kit can be installed at either end
- Built-in relay kit fits in the right end box only
- A compartment for low voltage connections (located directly under the junction box) facilitates the installation of low voltage relay in electric baseboard

Manufacturer highly recommends using an electronic wall thermostat for greater comfort and efficiency.

INSTALLATION

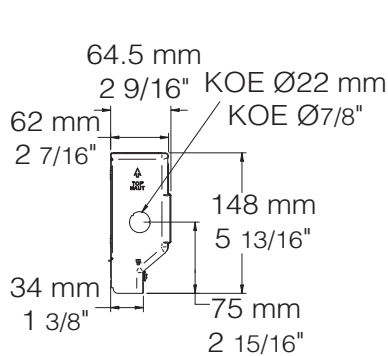
- No disassembly installation with single-screw built-in rear entry wire holder
- Installation directly on the floor with connection box at both ends of the heater
- Two rows of oblong mounting holes with center mark for ease of installation
- Raceway and side knock-outs for baseboard interconnections

Note: Stainless steel tubular heating element on all sizes eliminates potential for 60 Hz hum. Locked-in-place element, mounting slot holes and overall construction maximizes performance, quality and more.

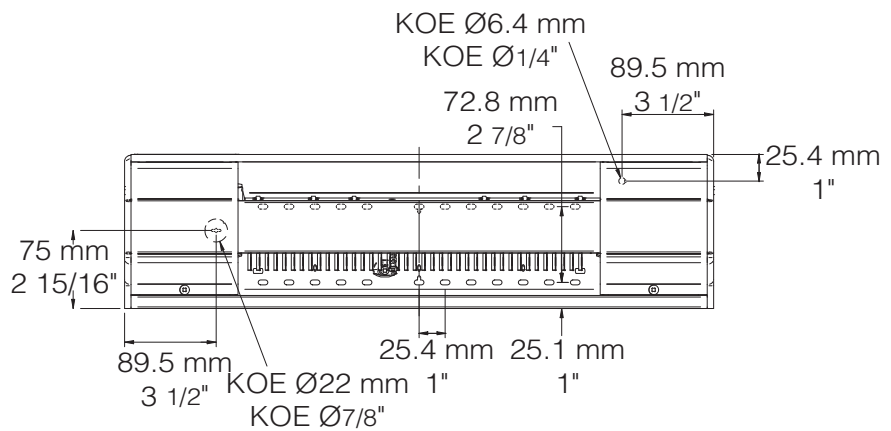
APPLICATION

- Residential and light commercial applications. Living areas, bedrooms, etc

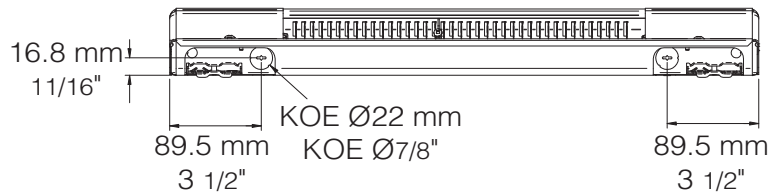
EBHB ELECTRIC BASEBOARD HEATER continued



Side View



Rear View



Bottom View

MODELS

		Size	3	5	8	10	13	15	18	20	23 ¹	25 ¹
Heating Capacity		Watts	300	500	750	1000	1250	1500	1750	2000	2250	2500
		BTUH	10	17	26	34		51		68		85
Length		in.	22-3/4	27-3/4	37-3/4	48	60	72	75-1/2	96	93	102-1/4
		mm	577	702	956	1217	1524	1829	1916	2439	2364	2596
Ship Weight		Lbs	4.5	5.4	7.0	8.7	10.7	12.7	13.2	16.6	16.2	17.8
		Kg	2.0	2.4	3.2	3.9	4.9	5.7	6.0	7.5	7.3	8.0
Factory Installed Options												
Supply Voltage/ Phase	120/1	AK1E	✓	✓	✓	✓	✓	✓	■	■	■	■
	208/1	AK15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	240/1 ²	AK3E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cabinet Color	White	HK1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Almond	HK2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Special Color	SPEC	Call for availability									
High-limit Temperature Control ³	Up to 6,000 ft	AB15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	3,000 to 8200 ft	AB16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Control Voltage	120V, 208V, 240V	STD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	24V Relay	BT1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Field Installed Options (shipped separately)												
		Size	3	5	7	10	13	15	18	20	23 ¹	25 ¹
Wall Mounted Thermostat	Light duty line voltage thermostat; single-pole, single-throw	CL5L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Light duty line voltage thermostat; double-pole, single-throw	CL5D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Unit Mounted Thermostat	Single-pole, bimetal thermostat	IT14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Double-pole, bimetal thermostat ⁴	IT15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Single-pole, bimetal, tamper-proof thermostat	IT16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Double-pole, bimetal, temper-proof thermostat ⁴	IT17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

¹ Sizes 23 and 25 MUST be ordered in pairs to minimize shipping damage.

² Units with Option AK3E (240V supply voltage) can be connected to 208V power supply, heating capacity will be reduced by 25%.

³ High-limit temperature control is based on elevation.

⁴ "Off" position.

Other voltages available upon request.

MECHANICAL THERMOSTATS

MODELS

CL5

Mechanical, wall mounted, line voltage thermostat, single-pole, single-throw. Not for use with model EXB.

CL1A

Wall mounted, single-pole, low-voltage thermostat. Not for use with model EXB.

CX1

Explosion resistant, wall mounted thermostat, 40°80°F.



ELECTRICAL FUNDAMENTALS

OHM’S LAW

The relationship between Wattage (heat) output and the applied Voltage of electric resistance heating elements is determined by a precise physical rule defined as Ohm’s Law which states that the current in a resistance heating element is directly proportional to the applied Voltage. Ohm’s Law is traditionally expressed as:

$$I = \frac{E}{R}$$

Where:

I = Amperes (Current)

E = Voltage

R = Ohms (Resistance)

The same equation using the conventional abbreviation for voltage is:

$$I = \frac{V}{R}$$

Where:

I = Amperes (Current)

V = Voltage

R = Ohms (Resistance)

An unknown electrical value can be derived by using any two known values in one of the variations of Ohm’s Law shown at the right.

VOLTS

$$\text{VOLTS} = \sqrt{\text{WATTS} \times \text{OHMS}}$$

$$\text{VOLTS} = \frac{\text{WATTS}}{\text{AMPERES}}$$

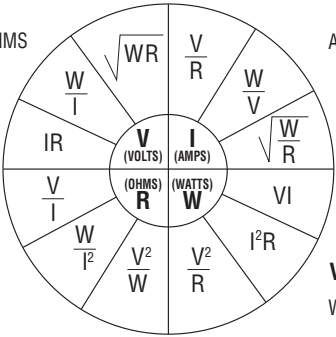
$$\text{VOLTS} = \text{AMPERES} \times \text{OHMS}$$

AMPERES

$$\text{AMPERES} = \frac{\text{VOLTS}}{\text{OHMS}}$$

$$\text{AMPERES} = \frac{\text{WATTS}}{\text{VOLTS}}$$

$$\text{AMPERES} = \sqrt{\frac{\text{WATTS}}{\text{OHMS}}}$$



OHMS

$$\text{OHMS} = \frac{\text{VOLTS}}{\text{AMPERES}}$$

$$\text{OHMS} = \frac{\text{WATTS}}{\text{AMPERES}^2}$$

$$\text{OHMS} = \frac{\text{VOLTS}^2}{\text{WATTS}}$$

WATTS

$$\text{WATTS} = \text{VOLTS} \times \text{AMPERES}$$

$$\text{WATTS} = \text{AMPERES}^2 \times \text{OHMS}$$

$$\text{WATTS} = \frac{\text{VOLTS}^2}{\text{OHMS}}$$

ELECTRIC CURRENT TABLE

Power kW	Voltage (ph)					
	120V (1)	208V (1)	208V (3)	240V (1)	240V (3)	277V (1)
0.3	2.50	1.45	0.83	1.25	0.72	1.09
0.4	3.34	1.92	1.11	1.67	0.97	1.45
0.5	4.17	2.41	1.39	2.09	1.21	1.81
0.6	5.00	2.89	1.66	2.50	1.45	2.17
0.75	6.25	3.61	2.09	3.13	1.81	2.71
0.8	6.67	3.85	2.23	3.34	1.93	2.89
1.0	8.34	4.81	2.78	4.17	2.41	3.61
1.2	10.00	5.77	3.34	5.00	2.89	4.34
1.25	10.42	6.01	3.47	5.21	3.01	4.52
1.4	11.67	6.73	3.89	5.84	3.38	5.06
1.5	12.50	7.22	4.17	6.25	3.61	5.42
1.6	13.34	7.70	4.45	6.67	3.86	5.78
1.75	14.59	8.42	4.87	7.30	4.22	6.32
2.0	16.67	9.62	5.56	8.34	4.82	7.22
2.25	18.75	10.82	6.25	9.38	5.42	8.13
2.5	20.84	12.02	6.95	10.42	6.02	9.03
3.0	25.00	14.43	8.34	12.50	7.23	10.83
4.0	33.34	19.23	11.12	16.67	9.64	14.44
4.5	37.50	21.64	12.50	18.75	10.84	16.25
5.0	41.67	24.04	13.90	20.84	12.05	18.05
6.0	50.00	28.85	16.68	25.00	14.45	21.66
7.5	62.50	36.06	20.84	31.25	18.06	27.08
8.0	66.67	38.47	22.23	33.34	19.27	28.88
9.0	75.00	43.27	25.01	37.50	21.68	32.49
10.0	83.34	48.08	27.79	41.67	24.09	36.11
12.0	100.00	57.70	33.25	50.00	28.90	43.33
14.0	116.67	67.31	38.91	58.33	33.72	50.54
15.0	125.00	72.12	41.69	62.50	36.13	54.16
18.0	150.00	86.54	50.02	75.00	43.35	64.99
20.0	166.67	96.16	55.58	83.34	48.17	72.21
24.0	200.00	115.39	66.69	100.00	57.80	86.65
25.0	208.34	120.20	69.48	104.17	60.21	90.26
30.0	250.00	144.23	83.37	125.00	72.25	108.31
35.0	291.67	168.27	97.27	145.84	84.30	126.36
40.0	333.34	192.31	111.16	166.67	96.34	144.41
45.0	375.00	216.35	125.06	187.50	108.38	162.46
50.0	416.67	240.39	138.95	208.34	120.43	180.51
55.0	458.34	264.43	152.85	229.17	132.47	198.56
60.0	500.00	288.47	166.75	250.00	144.51	216.61

FAQ

What is required for properly sizing a heater in my room?

- If you have a room with 8 feet ceiling height; you can calculate the square footage times 10 watts per square foot.
- If your ceiling is higher than 8 feet; calculate the cubic footage L x W x H and multiply by 1 watt per square foot.
- If you plan on heating a garage calculate the cubic footage L x W x H and multiply by 1 watt per square foot and multiply the square footage for each garage door by 48 (watts per square foot) and add this amount to the cubic footage. This will be the amount required to heat the garage.

Are 120 volts and 240 volts heaters interchangeable?

- A 240 volts heater run at 120 volts will produce 1/4 of the rated wattage. A 120 volts heater run at 240 volts will be destroyed and could cause fire damage to the building.

If I know the BTU's required; how do I calculate the watts required?

- Watts = BTU/3.412 (1 Watt = 3.41 BTU)

Calculating Temperature Rise?

- Sometimes your heater does not feel like it is putting out enough heat. Why not, you ask?
- Temperature rise is calculated by taking the kW times the constant 3167 divided by the CFM. For instance:
 $5\text{kW} \times 3167 / 300\text{CFM} = 15835 / 300\text{CFM} = 52.8^\circ\text{F}$. If your ambient temperature is 60°F the outlet air is 112°F .

CROSS REFERENCE CHART

ELECTRIC BASEBOARD HEATER 240/208V

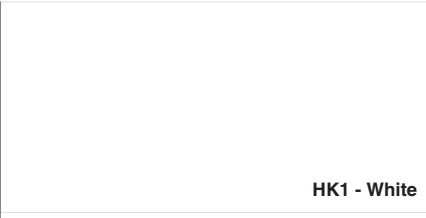
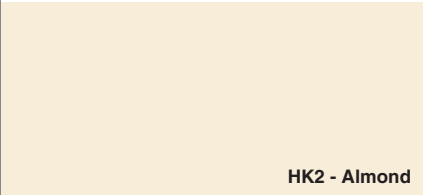
Model	Watts	Berko	Chromalox	Markel	Qmark
EBHB0300	300/225	2542W	BN/BL-2203W31	H 2903	QMK-2542W
EBHB0500	500/375	2542-6W	BN/BL-2805W31	H 2905	QMK-25426W
EBHB0750	750/563	2543W	BN/BL-3907W31	H 2907	QMK-2543W
EBHB1000	1000/750	2544W	BN/BL-4810W31	H 2910	QMK-2544W
EBHB1250	1250/938	2545W	BN/BL-5712W31	H 2912	QMK-2545W
EBHB1500	1500/1125	2546W	BN/BL-6615W31	H 2915	QMK-2546W
EBHB1750	1750/1313	-	BN/BL-7517W31	H 2917	-
EBHB2000	2000/1500	2548W	BN/BL-8420W31	H 2920	QMK-2548W
EBHB2250	2250/1688	-	BN/BL-9322W31	-	-
EBHB2500	2500/1875	2540-8W	BN/BL-10225W31	-	QMK-25408W

OTHER PRODUCTS

MODELS

		Page	Berko	Cadet	Electromode Chromalox	King	Markel	Qmark	Raywall
EHC	Commercial Wall Heater	23	VFK, FRA/ FRC	COACC	RFI/V/F	EFW	3310/3320 3420/3450	CWH/LFK	FPQ AFA/AFC/ AFH
EGW	Economical Unit Heater	9	HUH524TA	-	-	KBP	HF	MWUH5004	IH
EUH	Electric Unit Heater	4	HUH/SA, HUHAA	CEH/CAOS	EU	KB	UH, 5100	IUH, MUH	UH/5100
EHA	Forced-Air Architectural Wall Heater	21	FRC	LLW	EWA	LPWA	3450	AWH	AFC/AFH
EMC	Forced-Air Cabinet Unit Heater	18	CUH	COCA	CCH	-	6300/ACUH T SERIES	CU900	ACUH T SERIES
ECR/ECS	Ceiling Forced-Air Diffuser	16	FFCH	-	-	-	3480/3470	CDF	SCH/RCH
EXUB	Explosion-Resistant Unit Heater	11	RUX	-	CXH-ED	XL	HLA	GUX	HLA
EWHB	Wash Down Unit Heater	14	TUW	-	HDH	KBS	5500	JUW	WD

COLOR CHART

Standard color *		HK1 - White
		HK2 - Almond



* Refer to product Series for listings of standard colors available.
Note: Due to the printing process, the colors may vary from the actual colors.

NOTES

NOTES



For more information on Reznor® HVAC Equipment, contact your local Reznor Representative by calling 800-695-1901.

**Or, find us on the internet at
ReznorHVAC.com**

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805E-0823 (Replaces 805E-0423)

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