

ELECTRIC HEATING CATALOG

COMMERCIAL/INDUSTRIAL

TYPE

Unit Heaters
Explosion Resistant Unit Heaters
Cabinet Heaters
Wall Heaters
Ceiling Heaters
Portable Heaters

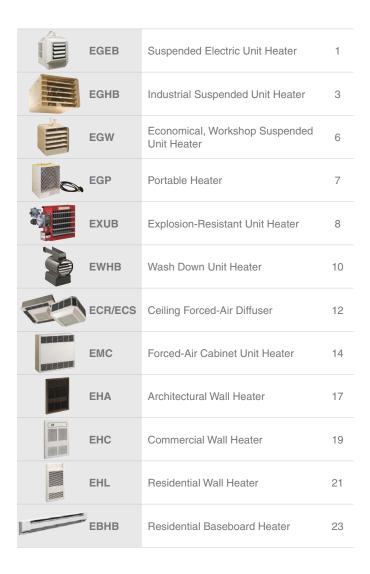
CAPACITIES

1 - 60 kW 200 - 3,000 CFM

Visit www.RezSpec.com for more information.

805E-0817 (Replaces Form C-EH (0616)

Table of Contents



Wall Thermostats Reference Chart	25
Electrical Fundamentals	26
Cross Reference Chart	27
Color Chart	28
Warranty	29



Color

· Standard: almond.

Finish

• Standard: epoxy/polyester powder paint.

Voltage

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

Construction

- Draw-through design for more evenly heated air. 1
- Specially designed outlet diffuser provides maximum air velocity. 2
- Individually adjustable louvers to direct discharge air flow. 3
- High-limit temperature control with automatic reset.
- 18 and 20 gauge steel.

Fan

- Motor totally enclosed thermally protected. 4
- Motor mounted in ambient air stream, shielded from heating elements. 5
- Fan delay purges heater of residual heat for longer life.

Heating element

- Stainless steel sheath with aluminum fins.
- Draw-through design permits greater heat transfer.

Control

- All models have factory installed contactor.
- 240/208V control circuit standard on all models (with transformer if needed).
- Full line of unit mounted control accessories available (factory or field installed).

Installation

• Minimum mounting height:

U.S. - 6 ft. (1.8 m)

Canada - 8 ft. (2.4m)

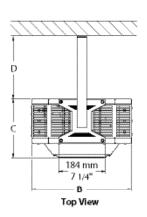
- Horizontal or vertical discharge air flow.
- Includes wall and ceiling mounting brackets (for horizontal discharge air flow).
- For vertical air flow 4 welded nuts (for threaded rod 3/8 in. X 16 UNC) provided in heater back.
- Large and easily accessible control compartment.

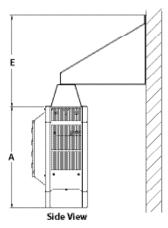
Warranty

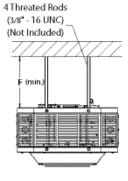
• 5-year warranty against defects.

Application

• Factory, warehouse, garage, store, shipping room.







	2 -5	kW	7.5-1	okw	15-2	0kW	
	mm	ро	mm	ро	mm	ро	
Α	416	16 3/8	622	24 1/2	622	24 1/2	
В	395	15 9/16	559	22	559	22	
C	231	9 1/8	276	10 7/8	412	16 1/4	
D	244	9 5/8	357	14 1/16	289	11 3/8	
E	373	1411/16	507	19 15/16	556	21.7/8	
F	152	- 6	254	10	152	- 6	
Weight	kg	lb	kg	lb	kg	lb	
Meidur	18	40	30	67	41	90	

EGEB

Models

			Size	3	5	7	9	10	15	19	20
Heating Capaci	tv		kW	3	5	7.5	9.9	10	15	19.8	20
Ticating Capaci	·y		MBH	10	17	26	34	34	51	68	68
Air Flow			cfm	310	310	600	600	625	915	1300	1300
Temperature Ri	60		°F	31	51	40	52	51	52	49	49
remperature m	36		°C	17	28	22	29	28	29	27	27
			HP	1/50	1/50	1/33	1/33	1/33	1/8	1/8	1/8
Motor		@ 208V	RPM	1490	1490	1490	1490		1490		
		@ 240V and Higher	RPM	1550	1550	1550		1550	1550	1550	1550
Ship Weight			Lbs	40	40	67	67	67	90	90	90
Ship Weight			Kg	18	18	30	30	30	41	41	41
Factory Installe	d Options										
Carreton Cada	Canadian Destin	ation/Approvals	BY15	✓	✓	✓	✓	✓	✓	✓	✓
Country Code	US Destination	on/Approvals	BY16	✓	✓	✓	✓	✓	✓	✓	✓
	208/	I-3 ¹	AK15	✓	✓	✓	✓				
	208	3/3	AK5						✓		
	240/	I-3 ¹	AK16	✓	✓	✓		✓			
	240	0/3	AK6E						✓	✓	
Supply Voltage/ Phase	277	7/1	AK4	✓	✓	✓		✓			
Filase	347	7/1	AK34	✓	✓	✓		✓			
	480)/1	AK9E	✓	✓	✓					
	480)/3	AK7E	✓	✓	✓		✓	✓		✓
	600)/3	AK8E	✓	✓	✓		✓	✓		✓
Disconnect	40	A	BA14	✓	✓	✓					
Switch ²	80	A	BA15				✓	✓	✓	✓	✓
	Supply Voltage	Control Voltage									
Control Voltage	208 to 600	208, 240	STD	✓	✓	✓	✓	✓	✓	✓	✓
	208 to 600	24	BT1	✓	✓	✓	✓	✓	✓	✓	✓
Internal	1-St	age	IC11	✓	✓	✓	✓	✓	✓	✓	✓
Thermostat	2 St	age	IC14						✓	✓	✓
	Unit Mounted Fan Switch	-	BF4A	✓	✓	✓	✓	✓	✓	✓	✓
Fan Controls	Relay for 24V remote fan switch (by other	ers). Required 24V control voltage	BF5	✓	✓	✓	✓	✓	✓	✓	✓
Field Installed (Options (shipped separately)										
			Size	3	5	7	9	10	15	19	20
	Wall bracket for horizontal discharge		STD	✓	✓	✓	✓	✓	✓	✓	✓
Mounting	Ceiling bracket for horizontal discharge		STD	✓	✓	✓	✓	✓	✓	✓	✓
Accessories	Threaded rod inserts in back for vertical	/downflow (rod by others)	STD	✓	✓	✓	✓	✓	✓	✓	✓
	Kit to field install (retrofit) built-in thermo	stat (specify the wattage of the unit)	IT13	✓	✓	✓	✓	✓	✓	✓	✓
	24V 40°F-80°F single stage wall thermo	stat	CL1A	✓	✓	✓	✓	✓	✓	✓	✓
	SPST single stage line voltage wall ther	mostat	CL5	✓	✓	✓	✓	✓	✓	✓	✓
- 1	Kit to field install BF4A fan switch for 27		CH2A	✓	✓						
Thermostats	Kit to field install BF4B fan switch for un	its over 277V	CH2B	✓	✓						
	Kit to field install BF4C fan switch 277V	units or less	CH2C			✓	✓	✓	✓	✓	✓
	Kit to field install BF4C fan switch 277V Kit to field install BF4D fan switch for un		CH2C CH2D		-	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	√

¹ Models with the indications "1/3" can be field converted from 1 to 3-phase. ² For the U.S. only: The nominal current of the unit must not exceed 80% of the capacity of the disconnect. Standard color is almond.



Color

· Standard: almond.

Finish

• Standard: epoxy/polyester powder paint.

Voltage

- 208V, 240V, 277V, 347V, 480V, 600V, 1 or 3-phase.
- Some units may be field converted from 3 to 1-phase.

Construction

- 18 and 20-gauge steel.
- Adjustable louvres to direct air flow.
- High-limit temperature control with automatic reset.

Fan

- Motor mounted in cold compartment.
- Thermally-protected motor.
- Totally enclosed and factory-lubricated ball bearing motor (except for 15 to 25kW at 208/240V).
- 58 dBA fan (2 to 10kW), 67 dBA fan (15 to 30kW) and 77 dBA fan (40 to 60kW).
- Fan delay purges heater of residual heat.

Heating element

- Durable tubular heating elements; stainless steel (2 to 10kW); finned (15 to 60kW).
- · Concentric disposition of heating elements.
- Factory sealed element upon request.

Control

- All models have a factory-installed contactor.
- 240/208V control circuit standard (with transformer if necessary).
- 24V relay, with or without transformer available.
- Built-in thermostat available.
- 120V control circuit available.

Manufacturer highly recommends to use a wall thermostat for greater comfort.

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

Installation

- Horizontal wall or ceiling mounting using one of two supplied brackets which allow 360° rotation.
- (Horizontal mounting only for 40kW, 50kW and 60kW secured by 4 hooks [ceiling only].)
- Vertical mounting using 4 threaded rods 1/2 in. X 13 UNC (not included) (except option -MD).
- Diffuser cones available (except option -MD).
- Large and easily accessible control compartment.
- Maximum recommended height (horizontal): 2 to 10kW: 8 ft. (2.4 m); 15 to 30kW: 10 ft. (3 m); 40 to 60kW: 15 ft. (4.5 m).
- Protective screen allows lower mounting height (except 40 to 60kW).
- Minimum height of 8 ft. (2.4 m) for 40 to 60kW heaters.
- 30 °C (85 °F) maximum operating ambient temperature.

Warranty

• 1-year warranty against defects.

Application

• Commercial hall, warehouse, stairwell, factory.

EGHB

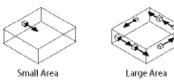
Models

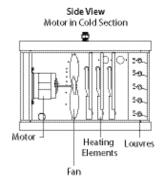
		Size	2	3	4	5	7	10	1	5	2	20	2	5	30	40	50	60
Heating Capacity	,	kW	2	3	4	5	7.5	10	15	15	20	20	25	25	30	40	50	60
neating Capacity	/	MBH	7	10	14	17	26	34	51	51	68	68	85	85	102	136	171	205
Air Flow		cfm	510	510	510	700	700	700	1300	1400	1300	1400	1300	1400	1400	2000	2000	2000
Townsveture Die	_	°F	13	18	25	23	34	45	36	34	49	45	61	56	68	63	79	95
Temperature Ris	e	°C	7	10	14	13	19	25	20	19	27	25	34	31	38	35	44	53
		HP	1/30	1/30	1/30	1/30	1/30	1/30	1/8	1/3	1/8	1/3	1/8	1/3	1/3	3/4	3/4	3/4
Motor	@ 277V and lower	RPM	1550	1550	1550	1550	1550	1550	1550		1550		1550					
	@ 480V and Higher	RPM	1550	1550	1550	1550	1550	1550		1725		1725		1725	1725	1140	1140	1140
Chin Woight		Lbs	45	45	45	45	45	45	85	85	85	85	85	85	85	150	150	150
Ship Weight		Kg	20	20	20	20	20	20	39	39	39	39	39	39	39	68	68	68
Factory Installed	Options																	
	208/1	AK2	✓	✓	✓	✓		✓										
	208/3	AK5						✓	✓		✓		✓					
	208/3-1 1	AK15				✓	✓							-				
	240/1	AK3E	✓	✓	✓	✓	✓	✓										
	240/3	AK6E							✓		✓		✓					
Supply Voltage/ Phase	240/3-1 1	AK16				✓	✓	✓										
riiase	277/1	AK4	✓	✓	✓	✓	✓											
	347/1	AK34	✓	✓	✓	✓	✓											
	480/1	AK9E	✓	✓	✓	✓	✓	✓		✓		✓		✓				
	480/3	AK7E	✓	✓	✓	✓	✓	✓		✓		✓		✓	✓	✓	✓	✓
	600/3	AK8E	✓	✓	✓	✓	✓	✓		✓		✓		✓	✓	✓	✓	✓
Triple Pole Conta	actor (3ph) 2	AN6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	40A	BA14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Disconnect Switch ³	80A	BA15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Switch	100A	BA16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Branch Circuit F	using	BA12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Unit Mounted Su	ımmer Fan Switch	BF4A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	208V, 240V, 277V	STD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Control Voltage	24V relay with transformer 4	BT1	√	✓	✓	✓	✓	√	✓	✓	✓	✓	✓	√	✓	✓	✓	✓
-	120V contactor with transformer	BT2	√	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Manual High Lim	iit	BD6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Summer Fan Relay	24V, remote control (Fan Switch must be ordered separately)	CV24	✓	√	✓	√	✓	✓	✓	✓	✓	√	✓	✓	√	√	✓	✓
Internal Thermos		IC11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Field Installed O	ptions (shipped separately)																	
		Size	2	3	4	5	7	10	1	5	2	20	2	5	30	40	50	60
	Without transformer	IR24		√	✓	√	<u> </u>	√	√	<u> </u>	✓	✓			✓	✓	✓	√
24V Relay Kit 5	240V transformer ⁶	IR2B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Unit Mounted The		IT13	√	✓	√	✓	√	√	√	√	✓	√						
Wall Mounted	Single-pole, low-voltage thermostat ⁸	CL1A	✓	✓	✓	✓	√	√	√	√	✓	✓	√	√	✓	✓	√	✓
Thermostats	Single-pole, single stage thermostat	CL5	✓	✓	√	✓	✓	√	✓	√	✓	✓	✓	✓	✓	✓	√	✓
Vertical Cone Dif		CD70			√					√	√	_			_	_	_	
. S. t.ou. Oone Di		22.0																

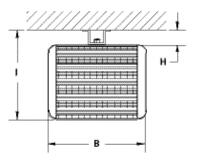
[|] Models with the indications "3/1" can be field converted from 3 to 1-phase.
| 2-pole contactor is standard with single and 3-phase units. 3-pole contactor may be required by some codes for 3-phase.
| 3 For the U.S. only: The nominal current of the unit must not exceed 80% of the capacity of the disconnect.
| 4 For single or multiple unit control.
| 5 IR24: 24V signal by others (multiple units per thermostat). IR2B: for 24V thermostat on each unit.
| 6 All heaters have a 240V control circuit unless otherwise specified.
| 7 Field installed. Same thermostat as Option IC11.
| 8 CL1A thermostat requires option BT1.
| Standard color is almond.

EGHB

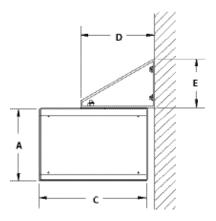
Standard Installation

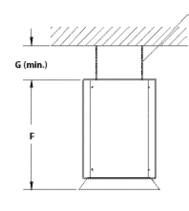






	2 to	10kW	15 to	30kW	40 to 60kW			
	mm	in.	mm	in.	mm	in.		
A	305	12	444	17 1/2	585	23		
В	419	161/2	556	21 7/B	641	25 1/4		
С	432	17	572	22 1/2	870	34 1/4		
D	357	141/16	470	18 1/2	-	-		
E	290	11.7/16	407	16	-	-		
F	490	19 5/16	630	24 13/16	924	36 3/8		
G	305	12	305	12	305	12		
н	123	47/8	148	5 13/16	305	12		
ı	428	16 7/8	592	23 5/16	890	35		
Weight	kg	lb	kg	lb.	kg	lb.		
weight	20	45	39	85	68	150		





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 air flow. 1
- High-limit temperature control with automatic reset (first level) and single operation thermal fuse (second level).

Fan

- 300 cfm fan (51 dBA).
- Totally enclosed factory-lubricated motor. 3

Heating element

• Helical coil nickel-chromium alloy wire provides instant heat. 4

Contro

• 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.

Warranty

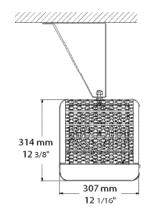
• 3-year warranty against defects.

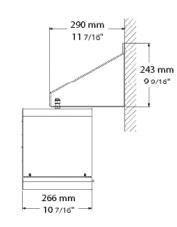
Application

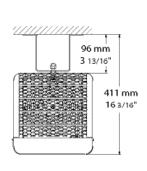
• Garage, workshop.

		Size	2	3	5
	@208/1	Watts	1500	2250	3750
Heating Consoits	@ 206/ I	BTUH	5118	7677	12795
Heating Capacity	@040/4	Watts	2000	3000	5000
	@240/1	BTUH	6824	10236	17060
Chin Waimht		Lbs	20	20	20
Ship Weight		Kg	9.1	9.1	9.1

Built-in thermostat and mounting brackets included. Standard color is almond.









Color

• Standard: almond.

Finish

• Standard: epoxy/polyester powder paint.

Voltage

• 240/208V, 1-phase.

Construction

- Handle may be used as a reel for the electric cable.
- 6 ft. (2 m) molded electric cable.
- High-limit temperature control with automatic reset and operation pilot light.
- Electrical insulating mica plates.

Fan

• 300 cfm fan.

Heating element

• Stainless steel tubular heating element.

Temperature rise

• 28°C (51°F).

Control

• Built-in thermostat included.

Installation

• 4000W may be plugged into 3-pronged, 20A, 250 VAC, 240V outlet. Note: Always unplug heater when not in use.

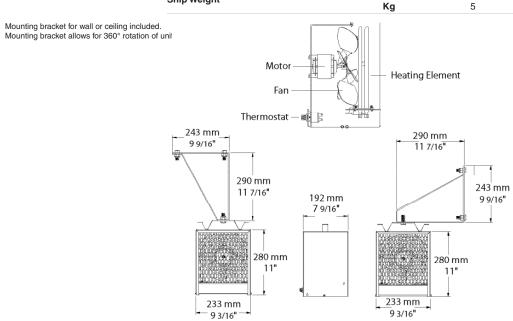
Warranty

• 1-year warranty against defects.

Application

• Workshop, garage, construction site.

		Size	4
	@200/4	Watts	3000
Heating Capacity	@208/1	BTUH	10245
	@040/4	Watts	4000
	@240/1	BTUH	13660
Chin Waimht		Lbs	11
Ship Weight		Ka	5





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. 1
- Fan Guard: multiple horizontal stiffening wires. 2

Protection

- High temperature pressure relief device. 3
- Two high-limit temperature controls: one with automatic reset and one with manual reset.

- Explosion-resistant, thermally protected, permanently lubricated ball bearing motor. 4
- 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).

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). 5
- Optional 24V control.
- Optional built-in or wall thermostat.
- Optional disconnect switch.

Installation

· Accessories available.

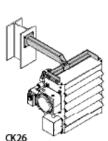
Warranty

• 3-year warranty against defects.

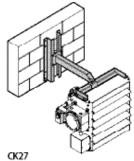
Application

• Paint room, petrochemical plant, refinery, chemical plant, mining industry, sawmill.

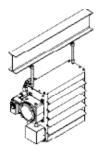
Consult the Electrical Code in your area before installing this unit.



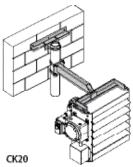
Basic Mounting Bracket Suitable for applications where the support arm can be bolted or welded directly to structural steel



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



Hanging Mounting Bracket Ideal and economical if adequate overhead structure exists. Requires 1/2 in. (12.5 mm) pipe, cut and



Pipe Mounting Bracket For buildings with insufficient strengthto use other types of mounting brackets. Requires

EXUB

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

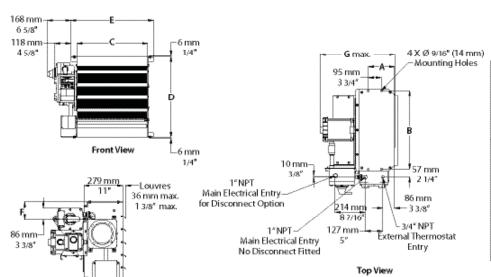
Standard color is red.

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.

Side View

Temperature limitations

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



Models	5 to 10kW	15 to 20kW	25 to 35kW
Fan	12"	16"	20°
	305 mm	406.4 mm	508 mm
Dim.	in.	in.	in.
	(mm)	(mm)	(mm)
A	7.5	7.5	7.5
	(190.5)	(190.5)	(190.5)
В	18.19	22.28	26,26
	(462)	(566)	(667)
С	16.3	20.28	24.29
	(414)	(515)	(617)
Ð	19	23	27
	(483)	(584)	(686)
E	19.45	23.46	27.44
	(494)	(596)	(697)
F	3.1	5.1	7.1
	(79)	(130)	(180)
G	22.25	22.25	23.25
	(565)	(565)	(591)



Voltage

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

Construction

- 16-gauge, stainless steel, moisture and corrosion resistant housing.
- Adjustable, stainless steel outlet louvres. 1
- Stainless steel rear grille to protect against accidental contact with the fan blade. 2
- High-limit temperature control with automatic reset (manual reset available upon request).
- NEMA 4X non-metallic electrical enclosure. 3
- Disconnect switch (40A max.) available.

Fan

- Anodized aluminum, delayed-action fan.
- Enclosed motor with permanently lubricated ball bearing for longer life. 4
- Epoxy-painted fan.

Heating element

• Sealed tubular heating element with stainless steel fins. 5

Control

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

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.

Warranty

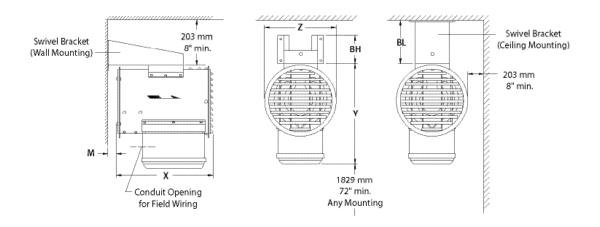
• 1-year warranty against defects.

Application

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

EWHB

		Size	3	5	7	10	15	20	25	30	38
Heating Conseils		kW	3	5	7.5	10	15	20	25	30	38.4
Heating Capacity		MBH	10	17	26	34	51	68	85	102	131
Air Flow		cfm	700	700	700	1450	2400	2400	2400	2400	2400
Temperature Rise		°F	14	24	35	22	21	28	35	42	54
remperature nise		°C	8	13	19	12	12	16	19	23	30
Air Throw		Ft	26	26	26	43	50	50	50	50	50
All Illiow		M	8	8	8	13	15	15	15	15	15
Ship Weight		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										
	208/1	AK2	✓	✓	✓						
	208/3	AK5	✓	✓	✓	✓	✓				
Supply Voltage/	240/1	AK3E	\checkmark	✓	✓	✓					
Phase	240/3	AK6E	\checkmark	✓	✓	✓	✓				
	480/3	AK7E	✓	✓	✓	✓	✓	✓	✓	✓	✓
	600/3	AK8E	✓	✓	✓	✓	✓	✓	✓	✓	✓
Control Voltage	24V Controls with Contactor	STD	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fan Switch	Unit Mounted, Water Tight	BF4B	✓	✓	✓	✓	✓	✓	✓	✓	✓
Disconnect Switch	h Water Tight, 600V, 3-Pole, 40A	BA5A	✓	✓	✓	✓	✓	✓	✓	✓	
Pilot Light	(included)	BE13									
Thermostat	Internal, Water Tight (included)	ICI8	✓	✓	✓	✓	✓	✓	✓	✓	✓
Field Installed Opt	tions (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	✓	✓	✓	✓	✓	✓	✓	✓	✓



Models	:	x	,	7	2	<u>z</u>	В	н	E	ßL.	,	м	Weig	ght ¹
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	lb	kg
3 to 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 to 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 to 47kW	660	26	710	28	510	20	180	7 1/8	570	22 1/4	80	3 1/4	130	60

³ Shipping weight.



Color

- Standard: white, almond.
- Optional: metallic silver, bronze, metallic charcoal, aluminum, semi-gloss black.
- Custom colors available upon request.

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. 1
- High-limit temperature control with automatic reset. 2

Far

- Totally enclosed and lifetime-lubricated ball bearing motor.
- Fan delay purges heater of residual heat. 3

Heating element

• Three stainless steel tubular heating elements with aluminum fins. 5

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. 4

Installation

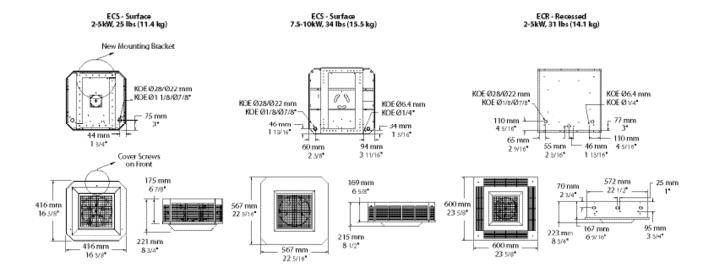
- Recommended height: between 8 ft. (2.4 m) and 12 ft. (3.6 m).
- Recessed into insulated or T-bar ceiling (ECR).
- Surface mounting (ECS).

Warranty

- 1-year warranty against defects.
- 10-year warranty on the heating elements.

Application

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



ECR/ECS

			Size	2	3	4	5	7	10
			W	2000	3000	4000	5000	7500	10000
F00	Ceiling Fan Heater - Forced	Heating Capacity	BTUH	6800	10250	13650	17075	25600	34150
ECS	Air Diffuser, Ceiling Surface — Mounted		cfm	310	310	310	310	600	600
ECR Factory Installed Options Supply Voltage/Phase Cabinet Color (Lead times may be increased for colors other than white) Control Voltage Internal Tamper-proof Therm Disconnect Switch 2	Wounted		Lbs	25/31	25/31	25/31	25/31	34	34
		Ship Weight	Kg	11/14	11/14	11/14	11/14	15	15
			Size	2	3	4	5		
			W	2000	3000	4000	5000		
	Ceiling Fan Heater - Forced	Heating Capacity	BTUH	6800	10250	13650	17075		
ECR	Air Diffuser, Ceiling Recessed		cfm	310	310	310	310		
	Mounted		Lbs	310	310	310	310		
		Ship Weight							
E. J. J. L. L. H. J. O. P. J.			Kg	14	14	14	14		
Factory Installed Options	000/4		41/0						
	208/1		AK2	√	√	√	√	✓	✓
	208/3		AK5		√	√			✓
	240/		AK3E	✓	✓	✓	✓	✓	✓
	240/		AK6E	✓	✓	✓	✓	✓	✓
Supply Voltage/Phase	277/		AK4	✓	✓	✓	✓	✓	✓
	347/		AK34	✓	✓	✓	✓	✓	✓
	480/	1	AK9E	✓	✓	✓	✓	✓	✓
	480/	3	AK7E	✓	✓	✓	✓	✓	✓
	600/	1	AK10	✓	✓	✓	✓	✓	✓
	600/	AK8E	✓	✓	✓	✓	✓	✓	
	White (S	STD)	HK1	✓	✓	✓	✓	✓	✓
	Almo	nd	HK2	✓	✓	✓	✓	✓	✓
	Metallic	Silver	HK3	✓	✓	✓	✓	✓	✓
	Bronz	ze	HK4	✓	✓	✓	✓	✓	✓
	Metallic Cl	harcoal	HK5	✓	✓	✓	✓	✓	✓
outer than write)	Alumin	um	HK8	✓	✓	✓	✓	✓	✓
	Semi-Glos	s Black	HK9	✓	✓	✓	✓	✓	✓
	Special	Color	SPEC		Call for	r quote (vo	lume orde	rs only)	
	208V. 240V	', 277V ¹	STD	✓	✓	· /	✓	√	✓
Control Voltage	24V Relay with	Transformer	BT1	✓	✓	✓	✓	✓	✓
· ·	120V Contro		BT2	✓	√	√	✓	✓	✓
Internal Tamper-proof Therr	nostat		ICI5	✓	✓	✓	✓	✓	✓
	Up to 277V, 2	-Pole, 20A	BA21	✓	✓	✓	✓		
Disconnect Switch 2	600V, 3-Pc		BA14	√	✓	✓	√	✓	√
	600V, 3-Pd		BA15	√			√	√	√
Terminals for Remote Fan	Includes Pi		BB12	√		√			√
Field Installed Options (shi			55.2	*	•	•	*	*	
a mounou optiono (Sili	pper copulatory)		Size	2	3	4	5	7	10
	Single-pole, low-voltage 3		CL1A			→			
Wall Mounted Thermostat			CL1A						
24V Control Bolov Kit 4		ngle-pole, single-stage							
24V Control Relay Kit 4		Vithout transformer							
Mounting Accessory 5	Adapter for T-Bar ceiling (Model	EC9 OUIÀ)	CK20		✓	✓	V		

 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.

Optional colors shown in the color chart section are available upon request.



Color

- Standard: white, almond.
- Optional: metallic silver, bronze, metallic charcoal, aluminum, semi-gloss black.
- Custom colors available upon request.

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. 1
- Field changeable air inlet and outlet. 1
- High-limit temperature control with automatic reset.
- 240V control circuit included. 2
- · Optional fresh air inlet damper.
- Optional air filters.

Fan

- Direct drive, variable speed squirrel-cage fan operating. 3
- Fan delay
- 240/208V factory-lubricated motor (1/15 HP). 4
- •2 speed-motor available (1600/1500 rpm).

Heating element

• Durable tubular heating element with fins. 5

Length

Four cabinet lengths are available: 28 in. (711 mm), 48 in. (1219 mm), 66 in. (1676 mm), 80 in. (2032 mm).

Contro

• Wide range of control available.

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

Installation

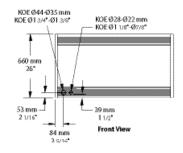
- Multi-position mounting (surface, semi-recessed, recessed).
- Maximum recommended installation height: 10 ft. (3 m).
- Recess trim kit available for recessed or semi-recessed units.
- Sub-base and special back plate available.

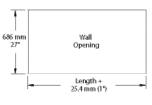
Warranty

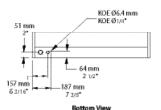
• 1-year warranty against defects.

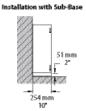
Application

• Hallway, entry way, exhibition center.

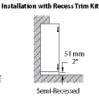










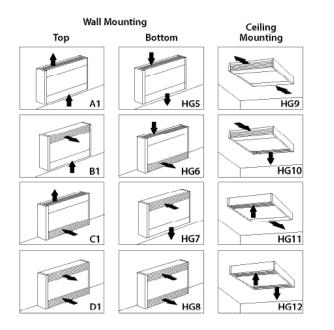


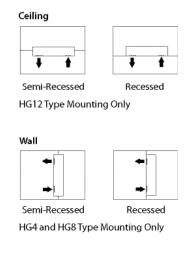


EMC

			Size	2	3	4	5	6	8	10	12	15	18	20	24
		High	W	2000	3000	4000	5000	6000	8000	10000	12000	15000	18000	20000	24000
Heating Capacity		9	MBH	6825	10250	13650	17075	20500	27325	34150	40975	51225	61475	68300	8195
g oupuo,		Low	W	1333	1000	2667	3333	4000	4000	5000	6000	10000	12000	10000	1200
		2011	MBH	4550	3400	9100	11375	13650	13650	17075	20500	34150	40975	34150	4097
Cabinet Color (Lead times may be increased for colors other than white) Control Voltage		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
- Tongin			Kg	52.3	52.3	52.3	52.3	52.3	66.4	66.4	66.4	95.5	95.5	109.1	109.
Factory Installed Option	IS														
	208/1		AK2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	208/3		AK5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	240/1		AK3E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	240/3		AK6E	✓	\checkmark	✓	✓	✓	✓	\checkmark	\checkmark	\checkmark	\checkmark	✓	\checkmark
Supply Voltage/	277/1		AK4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Phase	347/1		AK34	✓	✓	✓	✓	✓	✓	✓	✓				
	480/1		AK9E	✓	✓	✓	✓	✓	✓	\checkmark	✓				
	480/3		AK7E	✓	\checkmark	✓	\checkmark	✓	\checkmark						
	600/1		AK10	\checkmark	\checkmark	\checkmark	✓	✓	✓	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	600/3		AK8E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	White (STD)		HK1	\checkmark	\checkmark	\checkmark	✓	✓	✓	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	✓
	Almond		HK2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cabinet Color	Metallic Silver		НК3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
`	Bronze		HK4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Metallic Charco	al	HK5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
white)	Aluminum		HK8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Semi-Gloss Bla	ck	HK9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Special Color		SPEC				Ca	all for qu	iote (vo	lume or	ders or	nly)			
On when I Walterna	208V, 240V 1		STD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Control voltage	24V with transfor	mer	BT1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	On / Standby / Heatin	g Switch	BF10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Unit Mounted Switches	On / Auto Fan Sw	ritch	BF23	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Switches	Hi / Low Fan / Heat	Switch	BF24	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
For the Atolicia 2	with Manual Dam	per	ARB2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fresh Air Inlet ²	with Motorized Da	mper	ARB4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Disconnect	600V, 3-Pole, 40	DΑ	BA14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Switch ³	600V, 3-Pole, 80	DΑ	BA15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Branch Circuit Fusing			BA12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Manual High Limit			BD6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Internal Tamper-proof Th	nermostat	1-Stage	IC15	✓	✓	✓	✓	✓	✓	√	✓	✓	✓	√	√

Field Installed Options (shipped separately)





EMC

			Size	2	3	4	5	6	8	10	12	15	18	20	24
Wall Mounted	Single-pole, low-voltage	thermostat 4	CL1A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Thermostats	Single-pole, single stage	thermostat	CL5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
04V Delev Kit 5	Without transformer		IR24	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
24V Relay Kit ⁵	24V relay with transform	ner ⁶	IR2B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Filtono (Mell Me	ta al IIInita Ondra)	Standard	HZ3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Filters (Wall Mo	unted Units Only)	Washable	HX4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sub-Base	2" sub-base	for wall mount	HY7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Color Matched	Recesse	ed trim kit													
Trim Options	Smooth finis	Smooth finish back plate 7													

<sup>Standard voltage is 208V/240V unless otherwise noted.

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

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

L1A thermostat requires BT1 option.

R24: 24V signal by others (multiple units per thermostat). IR2B: for 24V thermostat on each unit.

All heaters have 240V control circuit.

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

Optional colors shown in the color chart section are available upon request.</sup>



Color

- Standard: white, almond, metallic silver, bronze, metallic charcoal, aluminum, semi-gloss black.
- · Custom colors available upon request.

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. 1
- 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. 3

Control

- Built-in tamper proof thermostat included. 4
- 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

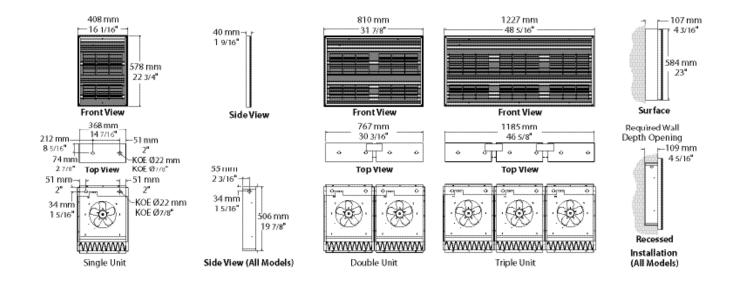
- Minimum clearance from the floor and adjacent walls: 10 in. (25.4 cm).
- · Adaptor for surface mounting available.
- Up to 3 units can be mounted side-by-side

Warranty

• 3-year warranty against defects.

Application

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



EHA

		Size	1	2	3	4	5
Hankin n Oananika		W	1500	2000	3000	4000	4800
Heating Capacity		BTUH	5125	6825	10250	13660	16400
Ship Weight		Lbs	24	24	24	24	24
Ship weight		Kg	10.9	10.9	10.9	10.9	10.9
Factory Installed Options							
	120/1	AK1E	✓				
	208/1	AK2		✓		✓	✓
Supply Voltage/Phase	240/1 1	AK3E	✓	✓	✓	✓	
	277/1	AK4	✓	✓	✓	✓	✓
	480/1	AK9E	✓	✓	✓	✓	✓
	White (STD)	HK1	✓	✓	✓	✓	✓
	Almond	HK2	✓	✓	✓	✓	✓
	Metallic Silver	HK3	✓	✓	✓	✓	✓
Cabinet Color (Lead times	Bronze	HK4	✓	✓	✓	✓	✓
may be increased for colors other than white)	Metallic Charcoal	HK5	✓	✓	✓	✓	✓
	Aluminum	HK8	✓	✓	✓	✓	✓
	Semi-Gloss Black	HK9	✓	✓	✓	✓	✓
	Special Color	SPEC		Call for quo	te (volume	orders only)	
Thermostat	Hidden, tamper-proof, built-in thermostat	STD	✓	✓	✓	✓	✓
0	120V, 208V, 240V, 277V & 480V	STD	✓	✓	✓	✓	✓
Control Voltage	24V Relay with transformer ²	BT1	✓	✓	✓	✓	✓
Discourse 1 O. Hali 2	Up to 277V, 2-pole, 20A	BA21	✓	✓	✓	✓	✓
Disconnect Switch ³	600V max., 3-pole, 40A	BA14	✓	✓	✓	✓	✓
Field Installed Options (shippe	d separately)						
		Size	1	2	3	4	5
Color Matched Trim Packages	Surface mounting box required for non-recessed units	HY6	✓	✓	✓	✓	✓

Units with Option AK3E (240V supply voltage) can be connected to 208V power supply, but heating output will be reduced by 25%.
 Built-in transformer is not included with 24V control voltage (Option BT1).
 For the U.S. only: The nominal current of the unit must not exceed 80% of the capacity of the disconnect.



Color

- Standard: white, almond.
- Optional: metallic silver, bronze, metallic charcoal, aluminum, semi-gloss black (10% up-charge).
- Custom colors available upon request.

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. 1
- Bottom air outlet.
- High-limit temperature control with automatic reset.

Fan

- Closed, factory-lubricated motor. 2
- 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. 3

Control

- Built-in thermostat included with control knob or tamper proof. 4
- 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

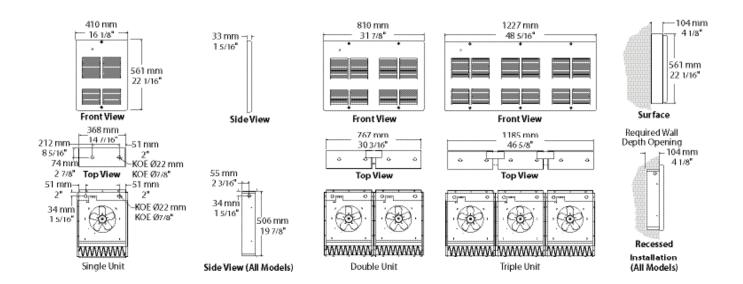
- Minimum clearance from the floor and adjacent walls: 10 in. (25.4 cm)
- Adaptor for surface mounting available. 5
- Up to three units can be installed side-by-side

Warranty

• 1-year warranty against defects.

Application

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



EHC

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

Units with Option AK3E (240V supply voltage) can be connected to 208V power supply, but heating output will be reduced by 25%.
 208V/240V control (& fan motor) is standard on all units.
 For the U.S. only: The nominal current of the unit must not exceed 80% of the capacity of the disconnect.



Color

• Standard: white, almond.

Mounting Box

 Optional: metallic silver, bronze, metallic charcoal, aluminum, semi-gloss black.

Recessed

• Custom colors available upon request.

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.

Far

- 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.

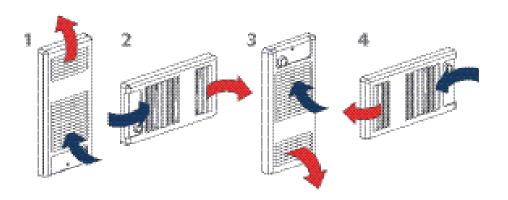
Warranty

• 1-year warranty against defects.

Application

• Entrance way, kitchen, bathroom, family room, basement.

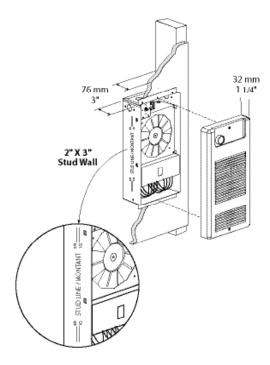
Four mounting positions available. Pictures showing front panel. Directional vane air flets.

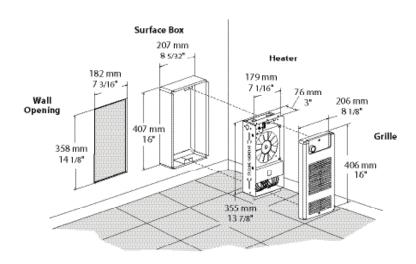


EHL

		Size	1000	1500	2000
Hasting Consolts		W	1000	1500	2000
Heating Capacity		втин	3415	5125	6825
Chin Wainht		Lbs	9	9	9
Ship Weight		Kg	4	4	4
Factory Installed Options					
Country Code	Canadian Destination/Approvals	BY15	✓	✓	✓
Country Code	US Destination/Approvals	BY16	✓	✓	✓
Committee Vallage / Dhaga	120/1	AK1	✓	✓	
Supply Voltage/Phase	240/1 ¹	AK3E	✓	√ ·	✓
	White	HK1	✓	✓	✓
Cabinet Color	Almond	HK2	✓	✓	✓
Thermostat	Thermostat with control knob	ICI5	✓	✓	✓
Disconnect Switch ²	277 max., 20A	BA21	✓	✓	✓
Field Installed Options (shippe	d 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.







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.

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.
- 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

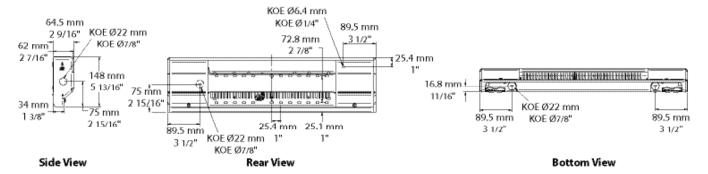
- No disassembly installation with single-screw built-in rear entry wire holder.
- Installation directly on the floor with connection box at both ends of the heater.
- Two rows of oblong mounting holes with center mark for ease of installation.
- Raceway and side knock-outs for baseboard interconnections.

Warranty

- 1-year warranty against defects.
- Heating element has a lifetime warranty for the initial end user. 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

		Size	3	5	8	10	13	15	18	20	23 1	25 ¹
		Watts	300	500	750	1000	1250	1500	1750	2000	2250	2500
Heating Capaci	ity	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
Lengin	Length		577	702	956	1217	1524	1829	1916	2439	2364	2596
Ohio Wainki		Lbs	4.5	5.4	7.0	8.7	10.7	12.7	13.2	16.6	16.2	17.8
Ship Weight		Kg	2.0	2.4	3.2	3.9	4.9	5.7	6.0	7.5	7.3	8.0
Factory Installe	ed Options											
	120/1	AK1E	✓	✓	✓	✓	✓	✓				
Supply Voltage Phase	208/1	AK15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
rilase	240/1 ²	AK3E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	White	HK1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cabinet Color	Almond	HK2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Special Color	SPEC					Call for a	vailabilit	у			
High-limit	Up to 6,000 ft	AB15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Temperature Control ³	3,000 to 8200 ft	AB16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	120V, 208V, 240V	STD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Control Voltage	24V Relay	BT1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Field Installed	Options (shipped separately)											
		Size	3	5	7	10	13	15	18	20	23 1	25 ¹
Wall Mounted	Light duty line voltage thermostat; single-pole, single-throw	CL5L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Thermostat	Light duty line voltage thermostat; double-pole, single-throw	CL5D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Single-pole, bimetal thermostat	IT14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Double-pole, bimetal thermostat 4	IT15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Thermostat	Single-pole, bimetal, tamper-proof thermostat	IT16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Double-pole, bimetal, temper-proof thermostat 4	IT17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Sizes 23 and 25 MUST be ordered in pairs to minimize shipping damage.
 Units with Option AK3E (240V supply voltage) can be connected to 208V power supply, heating capacity will be reduced by 25%.
 High-limit temperature control is based on elevation.
 "Off" position.
 Other voltages available upon request.

Mechanical Thermostats

Models

	Product #	Description
Ö	CL5 ⁴	Mechanical, wall mounted, line voltage thermostat, single-pole, single-throw
-	CL1A 4	WII mounted, single-pole, low-voltage thermostat
IIO	CX1	Explosion resistant, wall mounted thermostat, 40°80°F

⁴ Not for use with model EXB.

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:

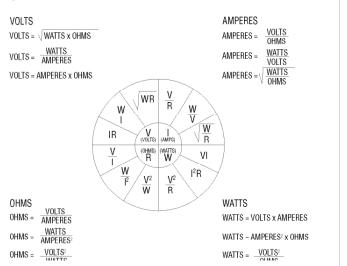
 $I = {E \over R}$ Where: I = Amperes (Current) E = VoltageR = Ohms (Resistance)

The same equation using the conventional abbreviation for voltage is:

I = V 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.



Electric Current Table

Power			Voltac	ge (ph)		
kW	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 I watt per square foot.
- If you plan on heating a garage calculate the cubic footage
 L x W x H and multiply by I 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 (I 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: 5kW x 3167/300CFM = 15835/300CFM = 52.8 °F. If your ambient temperature is 60 °F the outlet air is 112 °F.

Cross Reference Chart

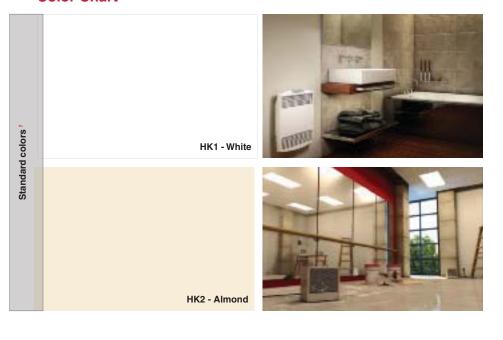
Electric Baseboard Heater 240/208V

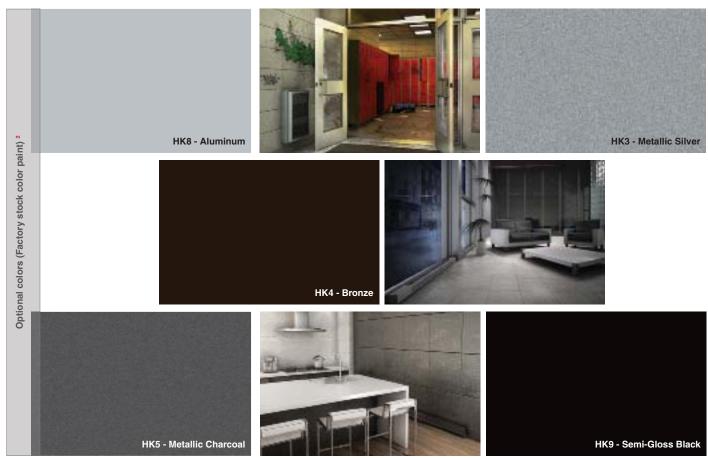
Model	Watts	Berko	Chromalox	Markel	Qmark
EBHB0300	300/225	2542W	BN/BL-2203W31	H 2903	QMK-2542W
EBHB0500	500/375	2542-6W	BN/BL-2805W31	H 2905	QMK-25426W
EBHB0750	750/563	2543W	BN/BL-3907W31	H 2907	QMK-2543W
EBHB1000	1000/750	2544W	BN/BL-4810W31	H 2910	QMK-2544W
EBHB1250	1250/938	2545W	BN/BL-5712W31	H 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

Model		Page	Berko	Cadet	Electromode Chromalox	King	Markel	Qmark	Raywall
EHC	Commercial Wall Heater	19	VFK, FRA/ FRC	COACC	RFI/V/F	EFW	3310/3320 3420/3450	CWH/LFK	FPQ AFA/AFC/AFH
EGW	Economical Unit Heater	6	HUH524TA	-	-	KBP	HF	MWUH5004	IH
EGHB	Industrial Suspended Unit Heater	3	HUH/SA	CEH/CAOS	EU	KB	UH	IUH	UH/5100
EHA	Forced-Air Architectural Wall Heater	17	FRC	LLW	EWA	LPWA	3450	AWH	AFC/AFH
EMC	Forced-Air Cabinet Unit Heater	14	CUH	COCA	CCH	-	6300/ACUH T SERIES	CU900	ACUH T SERIES
EGP	Portable Heater	7	CAH	RCP	DGWH	-	ICH	-	1ICH
ECR/ECS	Ceiling Forced-Air Diffuser	12	FFCH	-	-	-	3480/3470	CDF	SCH/RCH
EGEB	Cyclone Commercial Unit Heater	1	HUHAA	-	-	-	5100	MUH	-
EXUB	Explosion-Resistant Unit Heater	8	RUX	-	CXH-ED	XL	HLA	GUX	HLA
EWHB	Wash Down Unit Heater	10	TUW	-	HDH	KBS	5500	JUW	WD

Color Chart





¹Refer to product Series for listings of standard colors available.

²Minimum order of 25 pieces. If less than 25 pieces up-charge of \$50.00 net: Special note add 10% premium to price on all Model EBHB heaters and accessories if painted other than white or almond.

Note: Due to the printing process, the colors may vary from the actual colors.

LIMITED PRODUCT WARRANTY

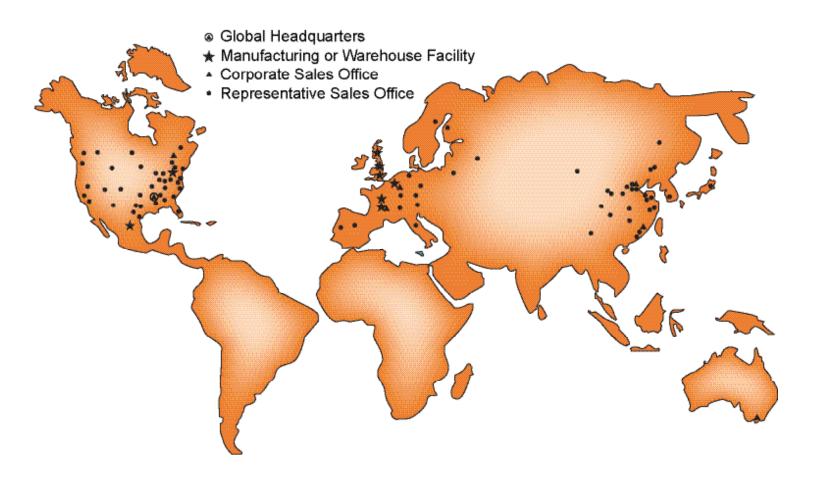
Nortek Global HVAC, LLC warrants to the original owner-user that this product will be free from defects in material or workmanship. This warranty is limited to twelve (12) months from the date of original installation, whether or not actual use begins on that date, or eighteen (18) months from date of shipment, whichever occurs first.

LIMITATIONS AND EXCLUSIONS

Nortek Global HVAC, LLC obligations under this warranty and the sole remedy for its breach are limited to repair, at its manufacturing facility, of any part or parts of its products which prove to be defective; or, in its sole discretion, replacement of such products. All returns of defective parts or products must include the product model number and serial number, and must be made through an authorized distributor or arranged through Customer Service. Authorized returns must be shipped prepaid. Repaired or replacement parts will be shipped F.O.B. shipping point.

- 1. The warranty provided herein does not cover charges for labor or other costs incurred in the troubleshooting, repair, removal, installation, service or handling of parts or complete products.
- 2. All claims under the warranty provided herein must be made within ninety (90) days from the date of discovery of the defect. Failure to notify of a warranted defect within ninety (90) days of its discovery voids Nortek Global HVAC, LLC obligations hereunder.
- 3. The warranty provided herein shall be void and of no effect in the event that (a) the product has been operated outside its designed output capacity (heating, cooling, airflow); (b) the product has been subjected to misuse, neglect, accident, improper or inadequate maintenance, corrosive environments, environments containing airborne contaminants (silicone, aluminum oxide, etc.), or excessive thermal shock; (c) unauthorized modifications are made to the product; (d) the product is not installed or operated in compliance with the manufacturer's printed instructions; (e) the product is not installed and operated in compliance with applicable building, mechanical, plumbing and electrical codes; or (f) the serial number of the product has been altered, defaced or removed.
- 4. The warranty provided herein is for repair or replacement only. Nortek Global HVAC, LLC shall not be liable for any loss, cost, damage, or expense of any kind arising out of a breach of the warranty. Further, Nortek Global HVAC, LLC shall not be liable for any incidental, consequential, exemplary, special, or punitive damages, nor for any loss of revenue, profit or use, arising out of a breach of this warranty or in connection with the sale, maintenance, use, operation or repair of any product. In no event will Nortek Global HVAC, LLC be liable for any amount greater than the purchase price of a defective product. The disclaimers of liability included in this paragraph 4 shall remain in effect and shall continue to be enforceable in the event that any remedy herein shall fail of its essential purpose.
- 5. THIS WARRANTY IS THE SOLE AND EXCLUSIVE WARRANTY, AND IS IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES. NORTEK GLOBAL HVAC, LLC SPECIFICALLY DISCLAIMS ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. No person or entity is authorized to bind Nortek Global HVAC, LLC to any other warranty, obligation or liability for any product. Installation, operation or use of the product for which this warranty is issued shall constitute acceptance of the terms hereof.

Reznor® is your global source for heating, ventilating and air conditioning equipment.



REZNOR®

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

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