

TECHNICAL SPECIFICATIONS FOR MODEL EMC

**INDOOR COMMERCIAL/INDUSTRIAL FORCED-AIR
ELECTRIC WALL- OR CEILING-MOUNTED CABINET HEATER**



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

TECHNICAL SPECIFICATIONS—CONTINUED

Unit Sizes

These heaters are available in twelve unit sizes based on heating capacity of 1,333–24,000 watts.

Features

- Voltage/phase options: 208/1, 208/3, 240/1, 240/3, 277/1, 347/1, 480/1, 480/3, 600/1, and 600/3
- White or almond epoxy/polyester powder paint finish (special colors available for high-volume orders)
- 18-gauge steel cabinet
- Extruded aluminum bar grill (prevents insertion of foreign objects)
- Field-changeable air inlet and outlet
- Optional fresh air inlet damper and air filters
- Direct-drive, variable-speed squirrel-cage fan with fan delay and 240/208V 1/15-HP factory-lubricated motor (two-speed-motor (1,600/1,500 RPM) available)
- Durable tubular heating element with fins
- Multi-position mounting: surface, semi-recessed, or recessed (kit available for recessed or semi-recessed units)
- Sub-base and special back plate available
- Standard 240V control circuit
- High-temperature limit control with automatic reset

NOTE: The manufacturer highly recommends the use of a wall thermostat for greater comfort.

Factory-Installed Options

Option	Description
AK2	Voltage/phase 208/1
AK5	Voltage/phase 208/3
AK3E	Voltage/phase 240/1
AK6E	Voltage/phase 240/3
AK4	Voltage/phase 277/1 (not available for unit sizes 15, 18, 20, and 24)
AK34	Voltage/phase 347/1 (not available for unit sizes 15, 18, 20, and 24)
AK9E	Voltage/phase 480/1
AK7E	Voltage/phase 480/3
AK10	Voltage/phase 600/1
AK8E	Voltage/phase 600/3
ARB2	Fresh air inlet with manual damper (not available with option IC15)
ARB4	Fresh air inlet with motorized damper (not available with option IC15)
BA12	Branch circuit fusing
BA14	Disconnect switch, 600V, triple-pole, 40A
BA15	Disconnect switch, 600V, triple-pole, 80A
BD6	High-temperature limit control with manual reset
BF10	ON/STANDBY/HEAT switch
BF23	ON/AUTO fan switch
BF24	HIGH/LOW FAN/HEAT switch
BT1	24V control relay with transformer
HG1–HG12	Mounting configuration (refer to Mounting Configurations section)
HK1	White cabinet color
HK2	Almond cabinet color
IC15	Internal tamper-proof thermostat

Field-Installed Options

Option	Description
CL1A	Single-pole, low-voltage thermostat
CL5	Single-pole, single-stage thermostat
HY4	Recessed trim kit
HY7	Sub-base for wall mounting, 2-inch
HZ3	Standard filters (wall-mounted units only)
HZ4	Washable filters (wall-mounted units only)
IR2B	240V/24V transformer
IR24	24V control relay without transformer (24V signal by others)

Technical Data

Parameter	Unit of Measure	Unit Size (kW)					
		2	3	4	5	6	8
Heating capacity, low	watt	1333	1000	2667	3333	4000	
	BTUh	4552	3415	9108	11,383	13,661	
Heating capacity, high	watt	2000	3000	4000	5000	6000	8000
	BTUh	6830	10,246	13,661	17,076	20,491	27,321
Airflow, low	CFM	200					400
Airflow, high		250					500
Sound level, low	dBa	48					
Sound level, high		50					

Parameter	Unit of Measure	Unit Size (kW)					
		10	12	15	18	20	24
Heating capacity, low	watt	5000	6000	10,000	12,000	10,000	12,000
	BTUh	17,076	20,491	34,152	40,982	34,152	40,982
Heating capacity, high	watt	10,000	12,000	15,000	18,000	20,000	24,000
	BTUh	34,152	40,982	51,228	61,473	68,304	81,964
Airflow, low	CFM	400		600		800	
Airflow, high		500		750		1000	
Sound level, low	dBa	48					
Sound level, high		50					

TECHNICAL SPECIFICATIONS—CONTINUED

Technical Data—Continued

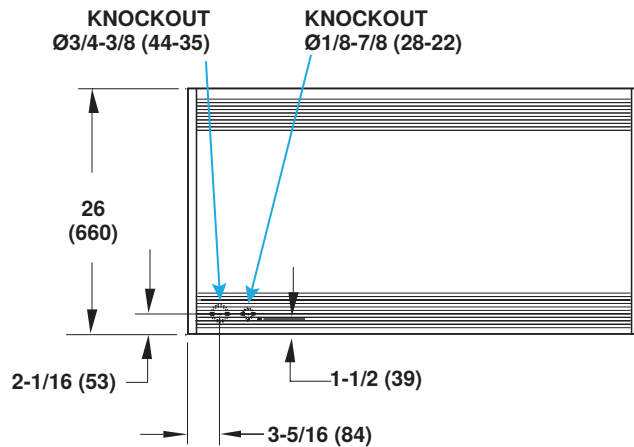
Voltage/ Phase	Unit Size (kW)											
	2	3	4	5	6	8	10	12	15	18	20	24
	Amp Draw for Disconnect Sizing											
208/1	9.62	14.42	19.23	24.04	28.85	38.46	48.08*	57.69*	72.12*	—		
208/3	5.56	8.34	11.12	13.90	16.67	22.23	27.79	33.35	41.69*	50.02*	55.58*	66.70*
240/1	8.33	12.50	16.67	20.83	25.00	33.33	41.67*	50.00*	62.50*	75.00*	—	
240/3	4.82	7.23	9.63	12.04	14.45	19.27	24.08	28.90	36.13	43.35*	48.17*	57.80*
277/1	7.22	10.83	14.44	18.05	21.66	28.88	36.10	43.32*	—			
347/1	5.76	8.65	11.53	14.41	17.29	23.05	28.82	34.58	—			
480/1	4.17	6.25	8.33	10.42	12.50	16.67	20.83	25.00	31.25	37.50	41.67*	50.00*
480/3	2.41	3.61	4.82	6.02	7.23	9.63	12.04	14.45	18.06	21.68	24.08	28.90
600/1	3.33	5.00	6.67	8.33	10.00	13.33	16.67	20.00	25.00	30.00	33.33	40.00*
600/3	1.93	2.89	3.85	4.82	5.78	7.71	9.63	11.56	14.45	17.34	19.27	23.12

NOTE: 40A disconnect switch (option BA14) used unless otherwise indicated.
 *Uses 80A disconnect switch (option BA15).

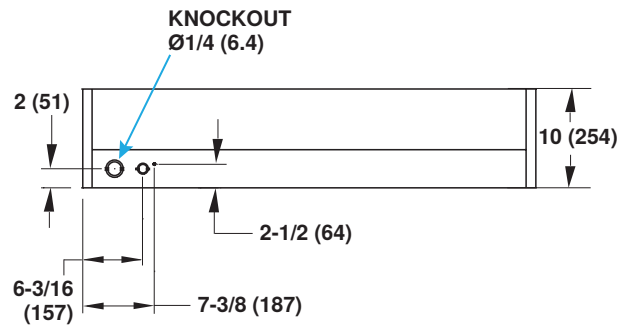
Dimensions

Unit Size (kW)											
2	3	4	5	6	8	10	12	15	18	20	24
Length (Inches (mm))											
28 (711)					48 (1219)			66 (1676)		80 (2032)	

NOTE: Wall or ceiling opening = (length + 1 inch (25.4 mm)) × (height + 1 inch (25.4 mm)).



FRONT VIEW



BOTTOM VIEW

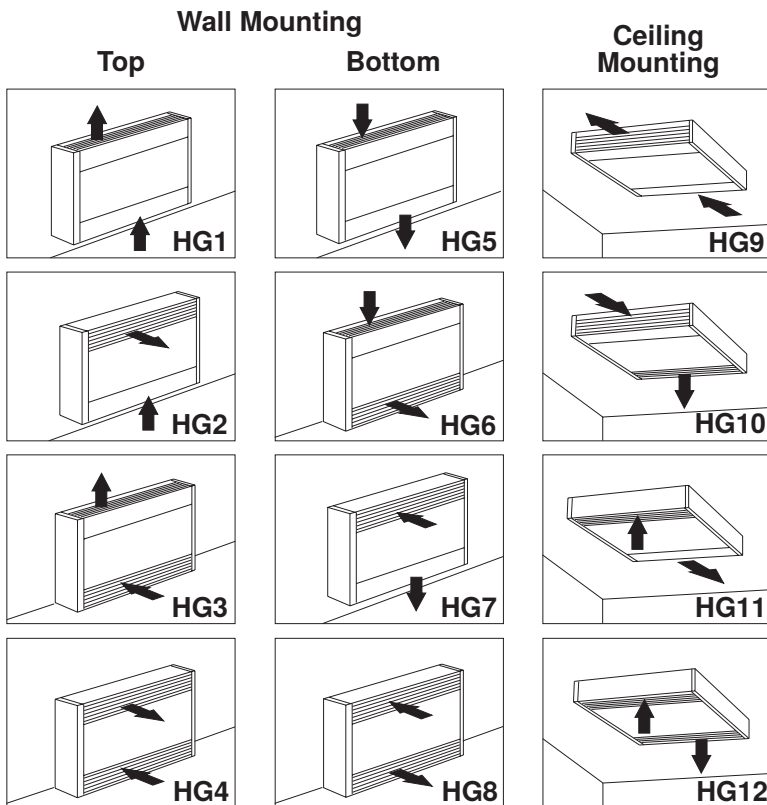
Shipping Weight

Unit Size (kW)											
2	3	4	5	6	8	10	12	15	18	20	24
Pounds (kg)											
115 (52.3)					146 (66.4)			210 (95.5)		240 (109.1)	

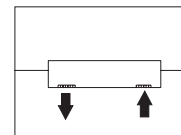
Mounting Configurations

Mounting Location	Airflow Direction	Option	Air Discharge	Air Inlet
Wall	Up	HG1	Top	Bottom
		HG2	Upper front	
		HG3	Top	Lower front
		HG4	Upper front	
	Down	HG5	Bottom	Top
		HG6	Lower front	
		HG7	Bottom	Upper front
		HG8	Lower front	
Ceiling	See graphic below	HG9	Horizontal side	Horizontal side
		HG10	Vertical down	
		HG11	Horizontal side	Vertical up
		HG12	Vertical down	

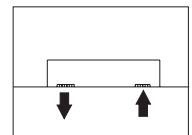
NOTE: Maximum recommended installation height: 10 feet (3 meters).



Ceiling



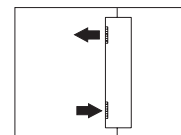
Semi-Recessed



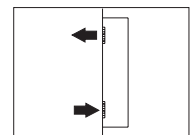
Recessed

HG12 Type Mounting Only

Wall



Semi-Recessed



Recessed

HG4 and HG8 Type Mounting Only

⚠ DANGER ⚠

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

For more information on Reznor HVAC products:

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

