

TECHNICAL SPECIFICATIONS FOR MODEL ECS

**INDOOR COMMERCIAL/INDUSTRIAL FORCED-AIR DIFFUSER
ELECTRIC FLUSH-MOUNTED CEILING 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 six unit sizes based on heating capacity of 2,000–10,000 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)
- Flat ribbon-wire outlet grill
- Totally-enclosed lifetime-lubricated ball bearing fan motor (fan delay purges residual heat)
- Three SST tubular heating elements with aluminum fins
- High-temperature limit control with automatic reset
- Line voltage control
- Built-in 240V contactor for unit sizes 5, 7, and 10, all 347V, 480V, and 600V units, and all 3-phase units
- Continuous circulation controlled by optional built-in switch with POWER ON indicator

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

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
AK34	Voltage/phase 347/1
AK9E	Voltage/phase 480/1
AK7E	Voltage/phase 480/3
AK10	Voltage/phase 600/1
AK8E	Voltage/phase 600/3
BT1	24V control relay with transformer
BT2	120V control circuit
BB12	Terminals for 24V remote fan switch (includes POWER ON indicator, remote fan switch not included)
BA14	Disconnect switch, 600V, three-pole, 40A
BA15	Disconnect switch, 600V, three-pole, 80A
BA21	Disconnect switch, up to 277V, double-pole, 20A (not available for unit sizes 7 and 10)
HK1	White cabinet color
HK2	Almond cabinet color
IC15	Internal tamper-proof thermostat
*Unit size 10 is rated at 9.9 kW at 208V.	

Field-Installed Options

Option	Description
CL1A	Single-stage 24V wall-mounted thermostat (requires option BT1)
CL5	Single-stage line-voltage wall-mounted thermostat
HY3	Mounting adapter for T-bar ceiling (not available for unit sizes 7 and 10)
IR24	24V control relay without transformer (24V signal by others)

Technical Data

Parameter	Unit of Measure	Unit Size (kW)					
		2	3	4	5	7	10
Heating capacity	watt	2000	3000	4000	5000	7500	10,000
	BTUh	6800	10,250	13,650	17,075	25,600	34,150
Airflow	CFM	310				600	

Voltage/Phase	Unit Size (kW)					
	2	3	4	5	7	10
	Amp Draw for Disconnect Sizing					
208/1	9.62*	14.42*	19.23*	24.04	36.06	47.60**
208/3	5.56	8.34	11.12	13.90	20.84	27.51
240/1	8.33*	12.50*	16.67*	20.83	31.25	41.67**
240/3	4.82	7.23	9.63	12.04	18.06	24.08
277/1	7.22*	10.83*	14.44*	18.05*	27.08	36.10
347/1	5.76	8.65	11.53	14.41	21.61	28.82
480/1	4.17	6.25	8.33	10.42	15.63	20.83
480/3	2.41	3.61	4.82	6.02	9.03	12.04
600/1	3.33	5.00	6.67	8.33	12.50	16.67
600/3	1.93	2.89	3.85	4.82	7.23	9.63
NOTE: 40A disconnect switch (option BA14) used unless otherwise indicated.						
*Uses 20A disconnect switch (option BA21).						
**Uses 80A disconnect switch (option BA15).						

Shipping Weight

With/Without Mounting Adapter	Unit Size (kW)					
	2	3	4	5	7	10
	Pounds (kg)					
With	31 (14)				—	
Without	25 (11)				34 (15)	

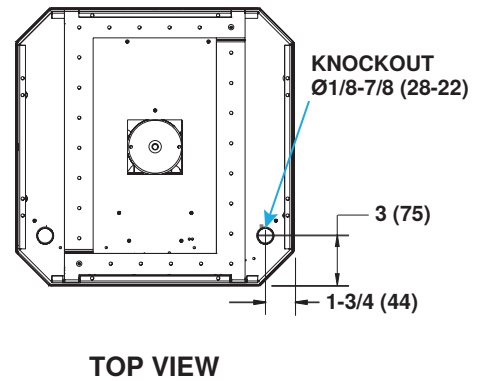
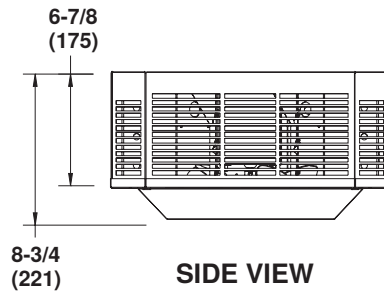
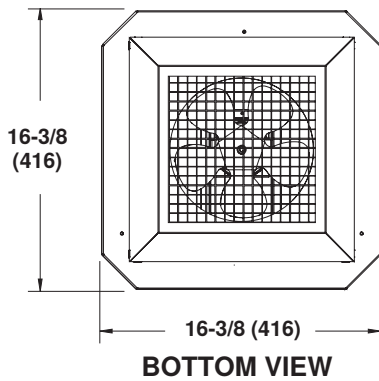
Mounting

- Recommended mounting height: 8–12 feet (2.4–3.6 meters)
- Surface mounting

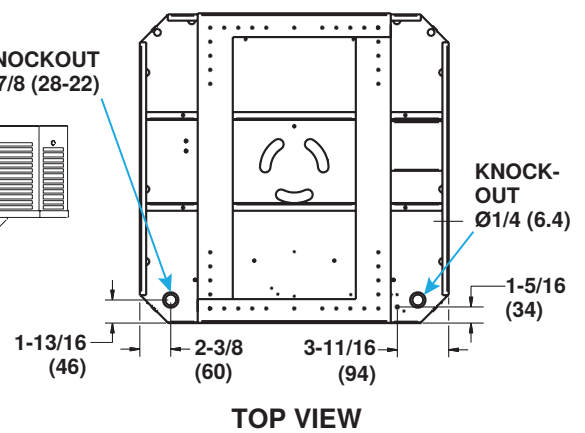
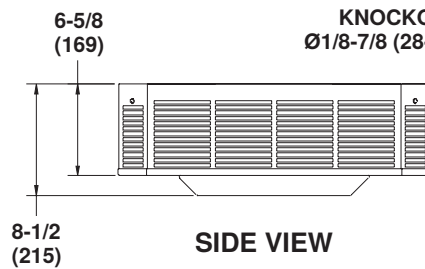
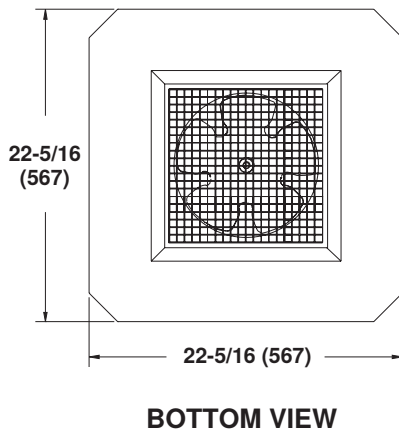
TECHNICAL SPECIFICATIONS—CONTINUED

Dimensions

Unit Size (kW)					
2	3	4	5	7	10
Length x Width (Inches (mm))					
16-3/8 x 16-3/8 (416 x 416)				22-5/16 x 22-5/16 (567 x 567)	



UNIT SIZES 2, 3, 4, AND 5



UNIT SIZES 7 AND 10

NOTES

⚠ 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**

