

# The CEH

## Industrial unit heater



**CADET**  
SAFETY & QUALITY



### SAFETY

Thermal Safeguard

- High temperature manual reset: turns off heater if normal operating temperatures are exceeded



### QUALITY

- High mass, tubular element for long life
- Rugged die formed construction for durability



### COMFORT

- Fan delay eliminates cold draft on startup and disperses residual heat on shutdown



### CONVENIENCE

- Wire single or three phase to suit the application
- Mounts vertically or horizontally

#### General Information:

Calculate the heat loss of the area to be heated. It is recommended that one of the following methods be used: ASHRAE Guide and Data Book (The American Society of Heating, Refrigeration & Air Conditioning Engineers); The NEMA Handbook (The National Electrical Manufacturer's Association); or the ACCA Manual J (The Air Conditioning Contractors of America). The layout of the space to be heated must be taken into consideration to determine the selection of the heater and air displacement. Most applications benefit from a combination of vertically and horizontally discharged air delivery. In buildings with large doors that are frequently opened, use a high velocity heater with horizontal air flow across the opening, or use an infrared heater. In smaller areas where comfort is a prime consideration, more heaters of smaller capacity are recommended. Smaller KW heaters such as the CEH005-P are also recommended for low mounting heights to avoid discomfort and increased noise levels. Additionally, there is better air distribution by using a greater number of lower KW heaters.

**Horizontal Air Flow** – Position heaters to allow the air flow to “wipe” the exposed walls without blowing directly against the wall. Spacing between the heaters should be approximately 1.5 times the “air throw” of the heaters (approx. air throw is 12’).

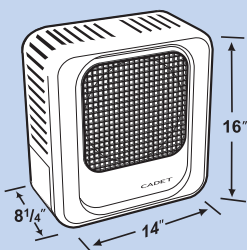
**Vertical Air Flow** – When vertical discharging heaters are used exclusively, the air streams must overlap to blanket outside walls and provide good heat distribution. Vertical air flow is best used for areas with high ceilings or bays. Vertical discharging units are to be mounted high above machinery, assembly lines, etc. Vertical discharging units are best used when the perimeter heat loss is adequately controlled.



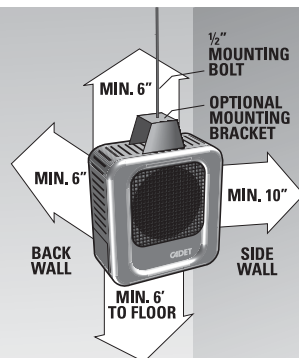
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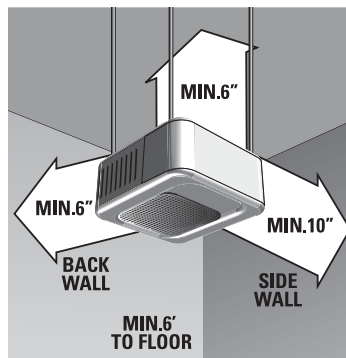
The CEH Series



Product Dimensions:  
14"W x 16"H x 8 1/4"D



Horizontal mount:  
clearance requirements



Vertical mount:  
clearance requirements

#### Carton Details

##### Complete Unit Carton

DIMENSIONS | 17.63"W x 14.5"H x 11.63"D  
PALLET QTY. | 20  
CUBE | 1.7



PHONE 360.693.2505  
 FAX 360.694.8668  
 WEB www.cadetco.com

**Ordering Information:**

Model CEH005-P (1 Phase) is designed to use a C600M, C600S or a CEKTB2 thermostat. If you add the jumpers, as shown on the heater wiring diagram (supplied with instructions and in wiring compartment) you can use a Single Pole 22 amp wall stat or a CEKTB1 thermostat. USE ONLY C600M, C600S, OR A CEKTB2 FOR 3 PHASE hookup on this model.

Approximate air throw is 12'. The CEH is recommended for elevations under 7500 feet.

**Architectural Information:**

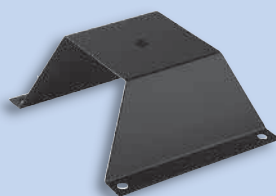
Fan forced unit heater shall be UL listed and dual rated at 208, 240 volts. Horizontal or vertical mounting shall be possible to direct discharged air. External cabinet shall be constructed of 20 gauge high quality steel. All metal surfaces of the cabinet, external and internal, shall be finished with a baked on powder coat paint system. Fan shall be aluminum blade axial flow type, and mounted directly to the motor shaft. Motor shall be shaded pole, industrial rated, with an inherent overheating protection device. Heating elements shall be sealed in magnesium oxide powder and protected by metal sheathing, over which aluminum fins are applied. Heater shall be equipped with manual reset thermal cut out for over temperature protection. Fan motor circuit shall be thermostatically controlled, allowing fan to remain operating after the elements have shut off, discharging the residual element heat. Wiring compartment shall have convenient access door with captured hardware.

UPC Code			WATTS			AMPS		Wt./Lbs		
Part#	Model#	Description	Phase	240V	208V	240V	208V			
027418	09265	6	CEH005-P	Unit Heater	1/3	5,000	3,750	20.80	18.00	24

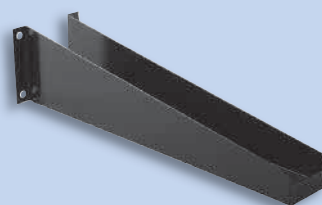
UPC Code			ACCESSORIES		Wt./Lbs
Part#	Model#	Description			
027418	09282	3	CEKV1	AirVane (louver) Kit	1
027418	09610	4	CEKTB1*	Single Pole Field Mount Thermostat	.44
027418	09615	9	CEKTB2*	2 Stage Field Mount Thermostat	.69
027418	09660	9	CEKM1	Ceiling Hat Bracket	1.35
027418	09670	8	CEKWM	Wall Hanger Arm (Also requires CEKM1)	4.7

Specifications	CEH005
CFM	350
FPM	940
Temp. Rise (°F)	45°
Motor HP	1/70
Motor RPM	1600
Recommended Spacing (ft.)	12

\*Thermostat kit maximum temperature range 110°F



**CEKM1**  
Ceiling Hat Bracket



**CEKWM**  
Wall Hanger Arm  
(Requires CEKM1)