

# Overhead HVAC & Fan-Forced Electric Heaters

## Overhead HVAC Heaters

Low to high temperature open coil and finned tubular overhead heaters are designed for operation with the primary HVAC system.

### Tubular Overhead HVAC Heaters

Finned or non-finned tubular elements positioned in a metal fabricated frame generally designed for removal during servicing without disturbing the heater frame. Elements are rigidly braced to minimize vibrations.

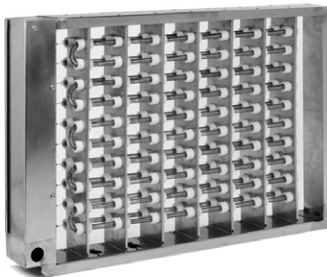


### Features

- Fully protected against mechanical shock, vibration or breakage.
- Completely encased resistance wire that will not, sag, oxidize or deteriorate.
- Coiled alloy resistor wire is centered and permanently encased within highly compacted magnesium oxide surrounded by a steel sheath.

### Open Coil Overhead HVAC Heaters

Helical wound high grade nickel chromium resistant wires supported by interlocking ceramic insulators with four times the creepage distance between terminal and ground.



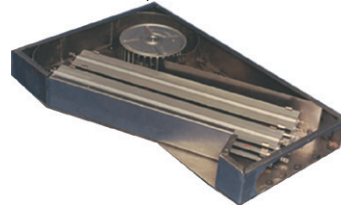
### Features

- Static pressure drop through open coil is very low, reducing fan horsepower requirements.
- Low element mass yields relatively small amounts of residual heat on fan shut down, reducing heat effect on surrounding material.

## Fan-Forced Electric Heaters

Caloritech™ fan-forced electric heaters provide efficient and economical comfort heating for transit car use in operator cabs, lavatories, and passenger areas.

The illustrations show examples of various fan-forced electric heaters



designed and built to meet customer specifications.

### Calvane™ Cab Heater

The Calvane™ heater is lightweight 14 lb (6.35 kg) and quiet. It contains six horizontally staggered 333 watt Calvane™ heaters with a 250 c.f.m. centrifugal fan strategically placed in a brushed aluminum frame. The heater is low profile, having a depth of 60" (1520 mm). Rated 208V, 3 phase, 60 Hz, 2 kW.

### Open Coil Cab Heater



The open coil cab heater has a speed-controlled fan, one 500 watt and one 1000 watt open coil element.

### Tubular Element Cab Heater

The tubular element cab heater consists of a single entry axial flow fan that forces air over tubular elements. An automatic reset thermal cutout acts as the primary protector. In this design the fan and the elements operate on 480V while the controls function on a separate 120V feed.



# PH Series - Enclosure Heater

The PH fan-forced heater is a light weight heater typically used in confined areas.



## Features

- Available in 125 W, 200 W, 400 W and 800 W
- $cCSA_{US}$  approved
- Light weight unit
- Low maintenance
- Aluminum alloy outer casting
- Externally adjustable thermostat 0°F to 100°F (-18°C to 38°C)
- Pilot light for "heat-on" indication
- High temperature safety protection
- Fan "ON/AUTO" switch to prolong motor life
- Terminal strip provides quick installation and accepts both standard and solid wire
- Optional DIN rail mounts available

Refer to Caloritech™ Catalog Section C, page C6 for more information on the PH Series Enclosure Heater.

# Other Heaters

## CALBAR™ Threshold Heater



Threshold heaters utilize the unique CALBAR™ heating element. The flat cross section of the CALBAR™ ensures maximum heat transfer to the threshold. Threshold heaters are hermetically sealed.

Customized designs and mounting hardware allow adaptation to existing thresholds. Alternatively, CALBAR™ heaters can be factory-installed in threshold extrusions.

## PXFT Series Natural Convection Heater



A natural convection heater engineered to provide freeze protection inside an enclosure or wall containing water pipes or electrical instrumentation.

The PXFT uses a high surface area aluminum heat emitter to eliminate the need for a fan while providing low radiation and high convection heating to the enclosure. The thermostat rating is 25 A at 240V S.P.S.T., adjustable from 30°F to 120°F (0°C to 50°C). A movable bracket allows the heater to be floor or wall mounted with the terminal box located on the left or right side, top or bottom. Wire guards are provided standard with the PXFT-300, 400 W and 600 W heaters, and are available as an option on the PXFT-050, 125 W and 200 W units.

Refer to Caloritech™ Catalog Section C, page C7 for more information on the PXFT Series Natural Convection Heater.

## CX Series Immersion Heaters



Screwplug immersion heaters are primarily used to heat water in tanks through natural convection currents. Typical heaters have standard 1" to 2 1/2" NPT tapered plugs. Other sizes or plugs are available on special order.

All thermostat equipped screwplug heaters with moisture or explosion-proof housings feature a convenient terminal block mounted to a slide out trolley.

Refer to Caloritech™ Catalog Section B, pages B6-B14, B17-B28 for more information on the CX Series Immersion Heater.