OPEN COIL ELEMENTS
air heaters

(1-800-492-8826)

www.wattco.com
OVERVIEW

WATTCO™ open coil elements are especially made to fit inside standard 2 or 3” schedule 40 NPS pipes. They are used in tank and pipe heating, and metal tubing. A minimum clearance of 1/8” is required between the ceramic and the inside wall of the tube. Installing an open coil element assembly in a schedule 40 NPS pipe will provide excellent and uniform heat distribution over large surface areas.

WATTCO™ open coil elements are an indirect heating solution to decrease the watt density requirements or the heat fluxes on the surface area of the pipe connected to the heated section and prevent heat sensitive materials from coking or breaking down.

KEY FEATURES

» Outside diameters: 1-7/8” and 2-3/4”
» Lengths: 60-320” (5-26 ft.)
» Single element ratings: 4-20 kW
» Pipe Surface: 3-12 W/In
» Voltages: 240 and 480V, 600V, 3-phase
» Used in horizontal 2 or 3” schedule 40 NPS pipe
» Equipped with high density electrical ceramic insulating supports
» Can be bent in a vertical plane on at least 12”radius
» Heavy gauge bus bars
» Heavy gauge resistance wire
» Special ratings and lengths available upon request

BENEFITS

» Very long size: 40 ft. or more
» Solidly built
» Easy installation
» Very flexible
» Equipped with a continuous support bar that ensures proper rigidity
» Long service life
» Uniform heat distribution

CAUTION

» Do not mount open coil elements vertically. The resistance wire will sag and this will result in uneven heating and short circuits.
» For vertical installation, check with factory.
» Leave 3/8” ft. of heater length for expansion.
» Install temperature controls, fusing, and backup safety devices.

Open coil elements are the most efficient type of electric heating while at the same time, being the most economically feasible for most heating applications. Used predominantly in the duct heating industry, open coil elements have open circuits that heat air directly from the suspended resistive coils. Fast heat up times also improve efficiency while being designed for low maintenance and easily, inexpensive replacement parts.
OVERVIEW

WATTCO™ large tank heaters consist of three specific heating systems, open coil element pipe insert heaters, single immersion heaters, and flexible tank heaters that can be used in large storage tanks. These systems can be installed in steel, concrete, or fiberglass above or below ground tanks.

WATTCO™ large tank heaters are the best solution for applications that require little or no manual attention and provide small amounts of heat to maintain temperature levels in the tank during the daytime and high performance during nighttime.

KEY FEATURES

- Heating systems:
  - Open coil elements in 2” and 3” schedule 40 NPS pipe
  - Flexible tank heaters for oil and viscous liquids
  - Single immersion heaters for viscous liquids and heat sensitive materials
- Watt density: 4-72 kW (13.6 -245 MBH)
- Voltages: 208-600V, 3-phase
- Thermostat for monitoring tank temperatures and energizing heaters

BENEFITS

- Easy operation
- Easy maintenance
- Low operating costs

APPLICATIONS

- Large storage tanks

SELECTING YOUR WATTCO™ LARGE TANK HEATER

The following table will help you select the WATTCO™ large tank heater that meets the requirements of your application.

<table>
<thead>
<tr>
<th>HEATER TYPE</th>
<th>SYSTEM TYPE</th>
<th>APPLICATION</th>
<th>OPERATING TEMP. (°F)</th>
<th>kW</th>
<th>CONSTRUCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCT</td>
<td>Open coil elements</td>
<td>Pipe insert</td>
<td>0 - 750</td>
<td>4 - 20</td>
<td>N/A</td>
</tr>
<tr>
<td>OCV</td>
<td>Large flexible tank</td>
<td>Below ground storage tank</td>
<td>50 - 225</td>
<td>6 - 80</td>
<td>NPT and welded</td>
</tr>
<tr>
<td>OCV</td>
<td>Large single immersion tank</td>
<td>Viscous fluid</td>
<td>50 - 400</td>
<td>15 - 72</td>
<td>Welded</td>
</tr>
</tbody>
</table>

NEED ASSISTANCE?

Please call us at 1-800-4WATTCO (1-800-492-8826) for further assistance.

WHEN ORDERING, PLEASE SPECIFY: Quantity, catalogue no., voltage, phase, wattage, and options.