**CHX-100 Series Circulation Heater**

**Construction**

The CHX-100 circulation heater is a compact lightweight unit used for heating gases or liquids. The material being heated is pumped through the coiled seamless 316 SS tubing which has been cast into an aluminum body that acts as the heat exchanger. A replaceable Hi-Density cartridge set into a hole bored into the aluminum is the heat source. The material being heated never comes into contact with the HD cartridge heater.

### Standard Design Features

- Seamless 316 SS Tubing for fluid flow
- Replaceable 5/8” diameter Hi-Density Cartridge Heater
- Cast Aluminum heat exchanger body
- Operating pressure up to 3000 PSI
- Operating temperature up to 350°F (177°C)
- NEMA 4/7 enclosure with standoff standard

### Optional Design Features

- Process Thermocouple
- Overtemperature Thermocouple
- High Limit Thermostat

### Typical Applications

- Solvent heating (MEK, NMP, ACT, EKC, others)
- Heating of Air, CO2, Nitrogen and similar gases
- Heating of non-flammable gases
- De-ionized water heating
- Steam generation
- Glycol heating
- Heating ink in printing
- Diesel and Fuel heating
- Packaging sterilization
- Analytical instrumentation
- Food and beverage heating
- Coating and Paint heating

### Standard (Non-Stock) Sizes and Ratings

<table>
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<tr>
<th>Heater Length (in)</th>
<th>Watts</th>
<th>Volts</th>
<th>Terminal Box Type</th>
<th>Tube Fitting Type</th>
<th>Calibration Type</th>
<th>Style</th>
<th>Termination Type</th>
<th>Lead Length (in)</th>
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