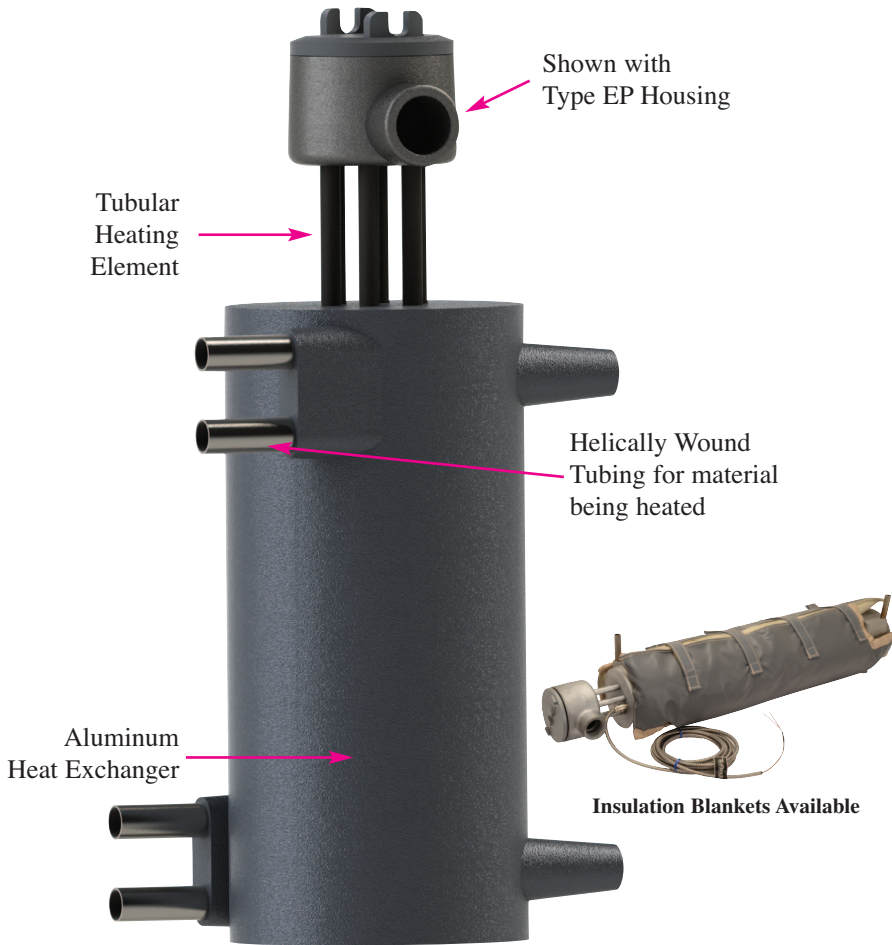


### CHX-300 Series Circulation Heater



#### Standard Design Features

- \* Seamless 316 SS Tubing for fluid flow
- \* Cast-In Tubular Heater
- \* Cast Aluminum heat exchanger body
- \* Operating pressure up to 2600 PSI
- \* Operating temperature up to 650°F (343°C)
- \* Type C2 (General Purpose) housing with standoff

#### Optional Design Features

- \* Process Thermocouple
- \* Overtemperature Thermocouple
- \* Type MPR (Moisture Resistant) or Type EP (Explosion Resistant) Housings
- \* Incoloy Tubing
- \* Cast Bronze Heat Exchanger Body: Operating pressure up to 1400 psi @ 1200°F (649°C)

#### Typical Applications

- ♦ Solvent heating (MEK, NMP, ACT, EKC, others)
- ♦ Heating of Air, CO<sub>2</sub>, 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

#### Construction

The CHX-300 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 tubular heating element is the heat source. The material being heated never comes into contact with the heating element.

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

| Heater Length (in) | Watts | Volts | Phase | Termination Type | Terminal Box Type | Tube Config. | Tube Fitting Type | Thermocouple     |                        |                  | T-Stat | Part Number |             |
|--------------------|-------|-------|-------|------------------|-------------------|--------------|-------------------|------------------|------------------------|------------------|--------|-------------|-------------|
|                    |       |       |       |                  |                   |              |                   | Calibration Type | Style                  | Termination Type |        |             | Length (in) |
| 13.5               | 3000  | 240   | 1     | T7               | Type EP           | Single       | —                 | J                | Spring Adjustable      | Std. Plug        | 48     | —           | CHX30012    |
| 13.5               | 3000  | 480   | 1     | T7               | —                 | Single       | —                 | —                | —                      | —                | —      | —           | CHX30016    |
| 13.5               | 4500  | 240   | 1     | T                | Type C2           | Single       | —                 | K                | Armor Cable Adjustable | Std. Plug        | 36     | —           | CHX30022    |
| 13.5               | 3000  | 208   | 1     | T                | Type C2           | Single       | —                 | J                | Spring Adjustable      | Spade Lugs       | 48     | —           | CHX30028    |
| 13.5               | 4500  | 240   | 1     | T7               | Type MPR          | Single       | HS                | —                | —                      | —                | —      | Yes         | CHX30036    |
| 19.5               | 6000  | 240   | 1     | T7               | —                 | Single       | —                 | J                | Armor Cable Adjustable | Spade Lugs       | 60     | —           | CHX30044    |
| 19.5               | 6000  | 480   | 1     | T                | Type C2           | Dual         | —                 | K                | Spring Adjustable      | Std. Plug        | 48     | Yes         | CHX30048    |
| 19.5               | 7500  | 240   | 3     | T7               | Type MPR          | Single       | HS                | —                | —                      | —                | —      | —           | CHX30054    |
| 19.5               | 7500  | 480   | 3     | T                | Type C2           | Dual         | —                 | K                | Armor Cable Adjustable | Std. Plug        | 60     | —           | CHX30056    |
| 19.5               | 9000  | 480   | 3     | T                | Type C2           | Single       | HS                | J                | Spring Adjustable      | Spade Lugs       | 48     | —           | CHX30062    |
| 25.5               | 12000 | 480   | 3     | T7               | Type MPR          | Dual         | —                 | K                | Armor Cable Adjustable | Std. Plug        | 36     | —           | CHX30068    |
| 25.5               | 12000 | 480   | 3     | T7               | Type MPR          | Dual         | HS                | K                | Spring Adjustable      | Std. Plug        | 60     | —           | CHX30071    |
| 25.5               | 12000 | 240   | 3     | T7               | Type EP           | Dual         | —                 | K                | Armor Cable Adjustable | Std. Plug        | 48     | —           | CHX30075    |
| 25.5               | 18000 | 240   | 3     | T7               | Type EP           | Dual         | —                 | K                | Spring Adjustable      | Std. Plug        | 60     | —           | CHX30078    |
| 25.5               | 18000 | 480   | 3     | T7               | Type EP           | Dual         | —                 | K                | Armor Cable Adjustable | Std. Plug        | 48     | —           | CHX30084    |