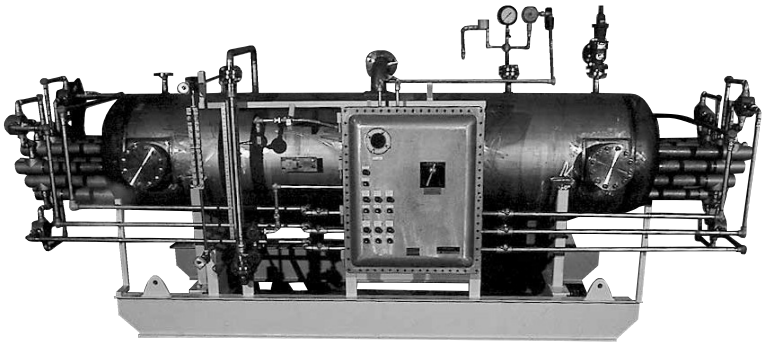
Vaporizer Systems

Technical & Application Data

- Heat Transfer Fluids (Vapor Phase) to 750°F
- Other applications for Vaporization including Kerosene, Propane, and Gasoline
- 15 - 300 kW (51 - 1,024 Mbh)
- 240 - 480V, 3 Phase, 60 Hz
- Pressurized Operation — ASME Certified to Section VIII, Div. 1 150 psig @ 750°F
- 300 Lb Carbon Steel Construction
- 0.475" Dia. Elements or OCE Open Coil Elements (Removable w/o Draining Tank)
- Hartford Loop Piping Prevents Siphoning of Fluid in Gravity Return Systems
- Pressure Control and Sequencer for Process Control
- Operating Pressure Gauge
- Over-Pressure Cutout Switch
- Fluid Level Switch Locks Out Heating Elements if Low-Fluid Level Occurs
- Reflex Type High Pressure Liquid Level Sight Glass
- 5" Dia. Dial Type Thermometer with Thermowell
- ASME Relief Valve
- NEMA 1 Electrical Enclosure Complete with Circuit Breaker, Contactors, Fusing, Switches, Transformers and Pilot Lights



Open coil element style vaporizer

Flanged immersion style vaporizer

Applications

Chromalox Heat Transfer Fluid Vaporizers are designed for use in textile, chemical, petrochemical and other industries requiring high temperatures and low operating pressures in their manufacturing processes. They operate to 750°F using Dowtherm ®A or J, Therminol ® VP-1 and other organic vapor phase heat transfer fluids.

Advantages

Vapor systems transfer more heat energy per pound of heat transfer medium than comparable liquid phase systems. As the fluid vapor condenses to a liquid in the process piping, it releases the latent heat of vaporization. Unlike steam, heat transfer fluids operate at relatively low pressures at elevated temperatures. Dowtherm ®A only has a pressure of 102 psia @ 695°F.

Note — In hazardous areas, pipe surfaces could achieve temperatures high enough to cause auto-ignition of the hazardous materials present. Consult Article 500 of the National Electrical Code for further information on the maximum allowable temperatures for a specific application.

Features

No pumps are needed for gravity return systems. Low operating pressures. Hartford loop piping for gravity return systems. Wiring and fusing conform to NEC requirements.

Options

- Alternate Voltage and kW Ratings
- Electronic Solid State (SCR) Power Controllers. Digital Communication Interface available
- Condensate Return Pumps
- NEMA 4 or Class I, Group D, Div. 1 Electrical Enclosures available
- Available without Control Panel or without Hartford Loop Piping
- Other Applications for Fluid Vaporization including Kerosene, Propane or Gasoline and Cryogenic Applications for Liquified Natural Gas and Nitrogen