

Chromalox®

PRECISION HEAT AND CONTROL

Precision Electric Heat and Control Systems
for Offshore Oil Drilling/Production Platforms



WHY CHOOSE ELECTRIC?

- Consistent pricing
- Clean-running operation
- No pollution
- Quiet operation
- Reduced footprint and envelope size
- Minimal maintenance
- Low operating cost
- Safety
- Large turndown / precise control

Thaw Heaters

Immersion heaters aid in the vaporization of liquid natural gas (LNG) during transportation and distribution.

Top-Up Heaters

Circulation heaters assist in boosting heated media temperatures during cold weather operation.

Knock-Out Drum Heaters

Immersion heaters heat incoming process streams to remove water contamination.

Waxy Crude Heaters

Circulation heaters warm the crude oil to improve viscosities for more efficient pumping and distribution.

Tank Heating

Large-tank heaters with replaceable elements ensure proper temperatures for any liquid storage.

Steam Piping Network

Mineral-insulated heat trace cable is used for high-temperature steam piping.

Hazardous Area/Construction Area Heating

Blower heaters can provide comfort heat in hazardous areas, while air handlers aid in paint curing and comfort heat in construction areas.

Sump Pump/Drain Collection

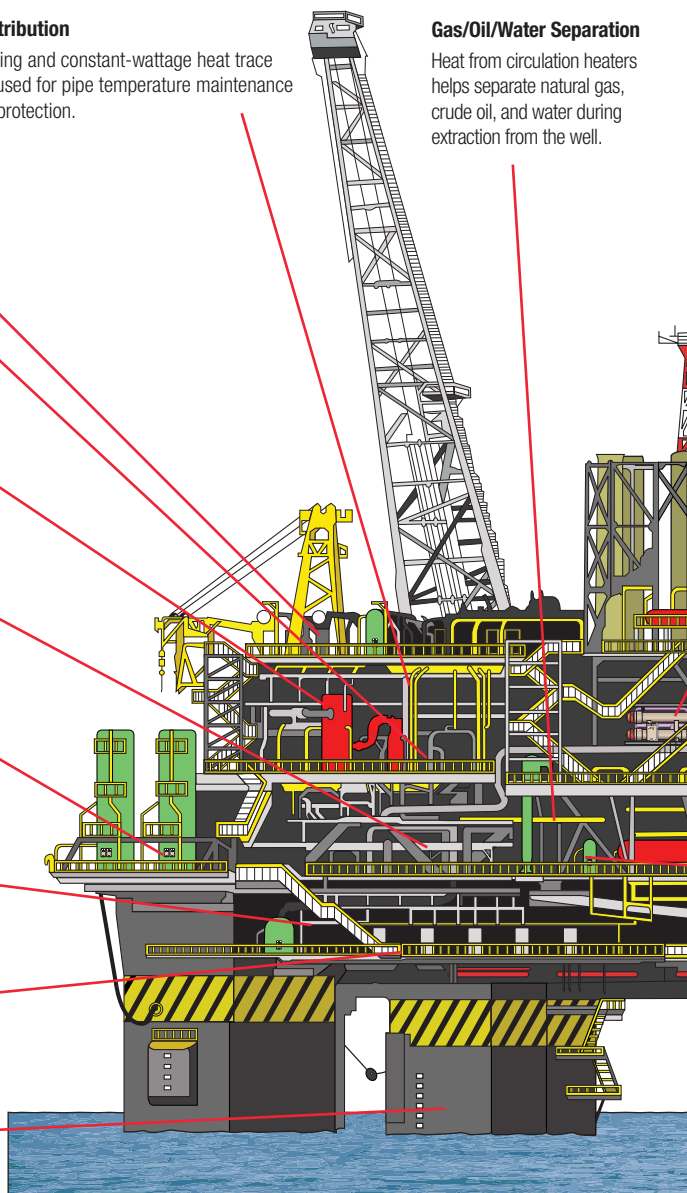
Immersion heaters are used to warm various sludge collections prior to pumping.

Piping Distribution

Self-regulating and constant-wattage heat trace cables are used for pipe temperature maintenance and freeze protection.

Gas/Oil/Water Separation

Heat from circulation heaters helps separate natural gas, crude oil, and water during extraction from the well.



Immersion Heaters

Chromalox immersion heaters apply heat directly at virtually 100 percent efficiency. Basic piping options include threaded, flanged, or welded. Various temperature control options permit very tight process temperature control. Chromalox manufactures a large selection of designs for heating any fluid, from plain water to corrosive solutions, highly viscous oils, and for many specialized applications such as high-pressure and hazardous locations.



Circulation Heaters

Chromalox circulation heaters are designed to heat a flowing medium using in-line or side-arm piping configurations. They afford high energy efficiency, fast heating, and uniform heat distribution. They also provide high turndown capability, tight outlet temperature control, and variable flow rates. A wide selection of kilowatt ratings, materials, vessel sizes, terminal enclosures, control features, and mounting methods is available.



Large-Tank Heating Systems

Chromalox large-tank heaters employ metal-sheathed tubular or ceramic-insulated, open-coil pipe insert heating components for use in Schedule 40 nominal pipe sizes. This unique construction allows heating elements to be changed or field-serviced without draining the tank. Complete with Chromalox controls, these large-tank heating systems can be operated to maintain materials at the proper temperatures with little or no manual attention.



Triethylene Glycol

Immersion heaters reconcentrate the glycol mixer by boiling off water mixtures.

Fuel Gas Conditioning, Filtration, and Dew Point Heaters

Electric in-line circulation heaters preheat and dry out supply gas streams to prevent corrosive condensation from damaging expensive turbine blades.

Lube Oil Heaters

Immersion heaters maintain lube oil viscosity for compressor and hydraulic equipment, and feature replaceable element design.

Service and Maintenance

Regular service visits ensure optimal operating conditions and help predict needed replacements.

Personnel Comfort Heating

Blower, convection, and radiant heaters provide comfortable temperatures for living and work quarters and hazardous area locations.

Humidity/Storage Control

Convection heaters are used to lower humidity in storage areas such as battery compartments or food storage.

Water Calorifiers

Used to heat water prior to distribution on the platform areas.

Process and Heating Control

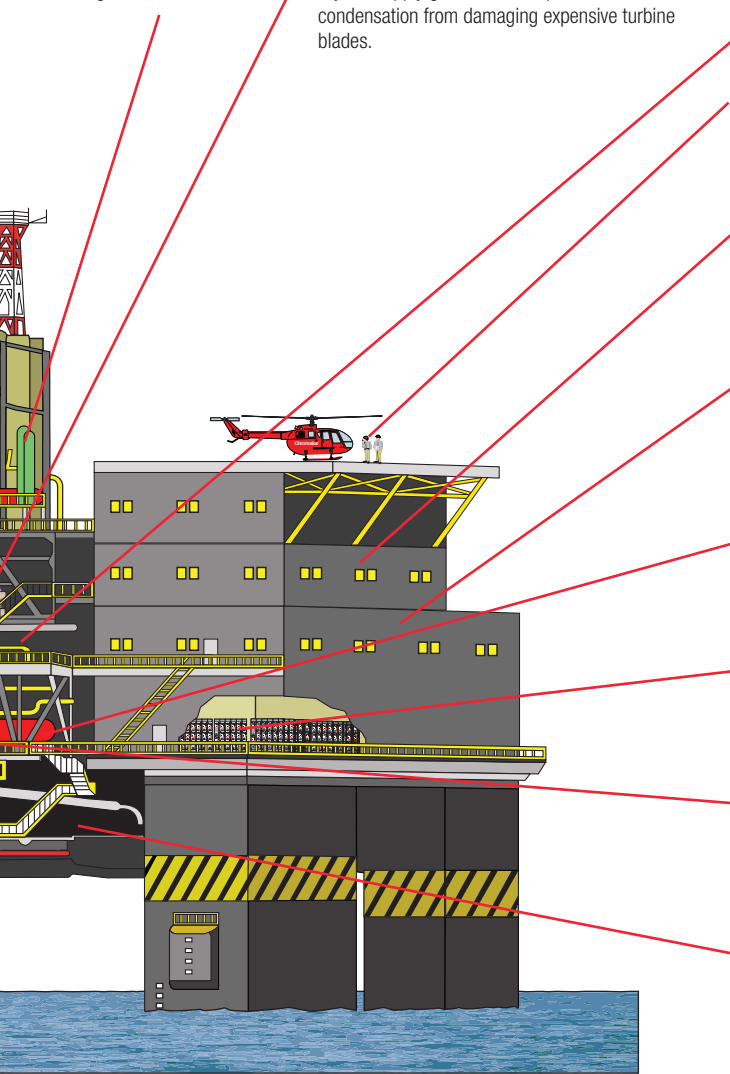
Panels, controllers, and sensors direct heater control based on real-time operating conditions.

Crude Oil Heating

Electric in-line heaters heat crude oil prior to the first-stage compressor for better viscosity and separation properties.

Standby Generator

Circulation heaters are used to warm coolant for standby emergency generators for rapid start-ups.



Comfort Heaters

Chromalox general-purpose convection- and blower-type heaters are heavy-gauge steel units ideal for heating enclosed spaces such as service and maintenance facilities. Our heavy-duty forced-air heaters are designed for use in dirty, corrosive environments. For rugged use in potentially flammable or explosive conditions, Chromalox hazardous-duty convection and forced-air blower heaters are the best choice. Our radiant heaters provide virtually instantaneous, dependable heat for tough-to-heat areas.



Heat Trace and Controls

Chromalox offers a variety of heat trace cable for counteracting heat loss from process equipment and piping through its insulation, preventing solution precipitation and the increase of viscosity or solidification of product, and freeze protection. Our line includes self-regulating and ruggedly constructed constant-wattage cable, as well as damage- and fire-resistant mineral-insulated cable. We provide temperature control, monitoring, and management in one, modular package plus all of the necessary components needed to complete the installation.



Control Systems

From basic, low-cost temperature and process controllers, to monitors and overtemperature controls, to more sophisticated control systems like the Chromalox® IntelliPANEL™ 3-phase SCR power control panel featuring unique color touch-screen technology, Chromalox can design the right system for your plant's needs. We are the only heating element supplier offering a complete line of controls, control panels, and accessories.



WHY CHOOSE CHROMALOX?

- Broadest product line and experience unmatched in the industry
- Precision-engineered heat and control systems for more processes throughout the world than anyone
- Vertical integration in manufacturing capabilities
- Full design and engineering for virtually any electric process heat and control application
- Customized service ranging from start-up and training, to ongoing maintenance diagnostics, to emergency response—all based on complete knowledge of your components, parts, and systems

OFFSHORE PRODUCTION

Chromalox Value-Added Products and Services Are Available Worldwide



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