Packaged Systems

SHO

Suction Heater — Asphalt & Fuel Oil Applications for Horizontal Installations

- 10" Carbon Steel Pipe Body and Heater Flange, 150 Lb Construction (Pipe Sizes from 5 -20" available)
- 18" 150 Lb ANSI B16.5 Tank Mounting Flange Matched to 10" Pipe Body (Mating Flanges from 10 - 30" available)
- 30 40kW Standard (10 200kW available)
- 240 and 480V, Three Phase (Up to 600V available)
- Moisture Resistant and Moisture /Explosion Resistant Terminal Enclosure
- 0.475" Dia. Steel Sheath Low Watt Density Elements (5 W/In²)

Class I, Division 1, Groups B,C,D Class II, Division 1, Groups E,F,G Class III, Division 1 Class I, Zone 1 AEx d IIB+A2 T1-T6



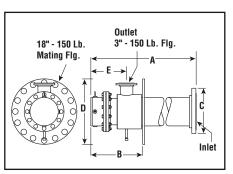
Applications

Heating of viscous materials, in large storage tanks, to pumping temperatures. Maintaining an entire tank of viscous fluids such as fuel oil or asphalt at pumping temperatures is very costly. In many applications it is not practical or economical because the tanks are located underground or are not insulated.

Type SHO Suction Oil Heaters are a costeffective solution to this problem. Suction
heaters are specifically designed to heat only
that amount of material that is to be pumped
from a large storage tank. The outlet nozzle
is attached to the pump suction. The heater
heats the material inside the heater pipe body
which is then drawn through the heater into
the suction side of the pump. This technique
saves substantial energy costs since it is not
necessary to heat the entire contents of the
tank to draw off relatively small amounts of
viscous materials.

Complete weather-proof construction makes these heaters perfect for installation in large outdoor storage tanks. Large heater inlet provides smooth, full-flow through the heater.





Features

Terminal Enclosure — SHO circulation heaters are designed to be installed outdoors in exposed areas. Enclosures are designed to be Moisture Resistant or Moisture and Explosion Resistant.

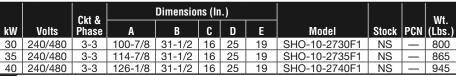
Low Watt Density Elements make the heaters safe to use on most viscous liquids. Carbonization is minimized.

Vessel — Pipe body and nozzles are galvanized ASTM A53B carbon steel pipe. Heater and mounting flanges are ANSI B16.5 150 Lb galvanized carbon steel. Assembly provided with thermal insulation and painted sheet metal jacket.

Thermostats and High Limit Controls — SHO suction heaters should be provided with temperature controls to control fluid outlet temperatures and limit internal temperatures under abnormal or no-flow conditions. Depending on customer specifications, SHO heaters may be supplied with factory equipped AR thermostats, high limit cutouts or other Chromalox controls.

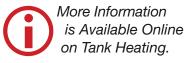
Control Panels — Integral or remote mounted control panels with electronic controls and solid state (SCR) or contactor power controllers can be provided using virtually any combination of control devices. Consult the Controls section for details.

Specifications and Ordering Information



Stock Status: S = stock NS = non-stock **To Order**—Specify model, volts, phase, kW, PCN and quantity.

Note — It is recommended that a butterfly valve with a worm gear assembly be installed on the intake flange for ease of maintenance or replacement of the heater assembly. Contact your Local Chromalox Sales office for assistance.



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