In Line Thermal Fluid Pre-Heater
PI Electric Series

DESCRIPTION

The Hy-Way PI electric pre-heater is an economically designed "immersion heater" for use with viscous liquids such as no. 4, 5, and 6 fuels or reclaimed oil. The PI pre-heater can quickly and efficiently boost oil temperatures on demand to achieve optimum viscosity for atomizing heavier fuels. The PI pre-heater is also an effective compliment to older or existing heating systems where additional heat exchange is required.

The design of the PI pre-heater consists of a hollow tube with a flanged immersion type electric element fitted internally. Sizes are available from 48 to 144 Kilowatts.

APPLICATION

Most combustion systems are designed for minimum viscosity levels of 100 SSU (Seconds Saybolt Universal) in order to achieve maximum atomization of the oil for efficient combustion. The Hy-Way PI electric pre-heater is designed to quickly reach, on demand, the required temperatures necessary to maintain 100 SSU. These temperatures generally range from 100°F to 250°F. In addition, viscosity must be reduced to maintain proper pumping flow to prevent vaporization, cavitation and overheating which can lead to coking of the thermal system.

STANDARD FEATURES

- Control panel remotely mounted
- Digital P.I.D. temperature controller
- Non-arcing power relays
- Safety interlocks
- Fused control circuit transformer
- Low watt density coil design
- Discharge manifold
- Operating temperatures to 250°F

OPTIONS

- Special sizes and designs to meet your application needs
- S.C.R. power controller
- Flow switch
- Fuel pump and motor, base mounted with flexible connectors
- Fused pump motor starter located in control panel
- Back pressure regulating valve
- Dial thermometer with wells
- Pressure gauges and needle valves
In-Line Thermal Fluid Pre-Heater

Diagram of Model PI-48-2T-9 In-Line Oil Heater

Diagram of Model PI-96-2T-9 In-Line Oil Heater

Dual Loop Piping Schematic for Pumping and Heating Heavy Oils

Nos. 4 and 5 and Waste Fuel Oils

No. 6 and Bunker Fuel Oils

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