

# LHE

Oil Line Heater - Electric Type

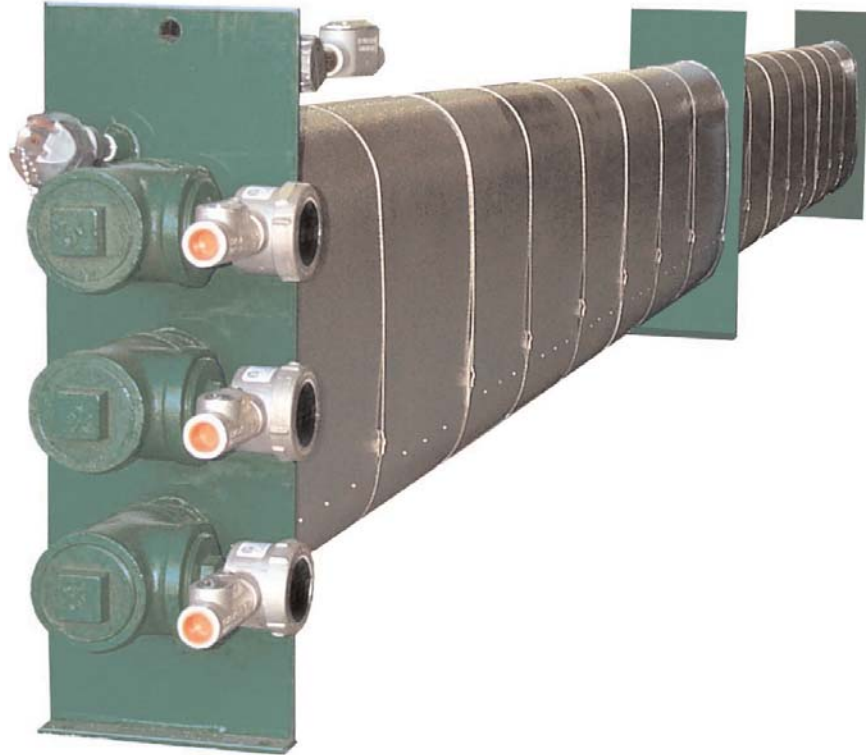


## Features

- Precise digital temperature control
- Low watt density design
- Rugged construction
- Removable heat exchanger tubes for ease of cleaning
- Removable heating elements
- Oil flow switch
- UL listed control panel
- Minimal field wiring

## Benefits

- Five year heating element warranty
- Uniform heat transfer
- Reduced coking and maintenance downtime
- Long service life
- Safe operation with control panel and oil flow switch



The Hauck LHE Electric Oil Line Heater is designed to supply the heat necessary to lower fuel oil viscosity to that required at the burner for proper atomization. This usually involves a change from a nominal pumping viscosity of 2000 SSU ( $4.3 \times 10^{-4} \text{ m}^2/\text{sec}$ ) to the atomizing viscosity of 90 SSU ( $1.8 \times 10^{-5} \text{ m}^2/\text{sec}$ ). The heater's unique design allows for heat exchanger tubes to be easily removed to facilitate cleaning of any coking buildup. Hauck's LHEs are available in a wide range of heating inputs from 10 to 250 kW to meet specific application requirements.

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Combustion Excellence Since 1888

## LHE

OIL LINE HEATER - ELECTRIC TYPE



### ADVANTAGES OF THE LHE

#### **Uniform Heat Transfer**

#### **Removable Heat Exchanger Tubes and Heating Elements**

#### **Reduced Coking**

#### **Rugged Construction for Long Service Life**

To avoid heat loss from oil in transit to the burners and for quicker burner light off, an oil line heater should be located as close as possible to the burners. In some instances, oil supply and burners are not centrally located, making the maintenance of constant oil temperatures a problem. Through the use of Hauck LHE line heaters, the travel distance of the heated oil can be reduced to eliminate undesirable oil temperature variations caused by heat loss and oil flow rate variations in long oil lines.

#### **Uniform Heat Transfer**

The LHE's heating elements provide uniform heat transfer and come with a five year warranty. These elements are ETL listed and utilize a low watt density design for longer service life and less coking. Hauck heaters are designed to provide a heat input of approximately 9 W/in<sup>2</sup> (1.4 W/cm<sup>2</sup>) of heating surface.

#### **Automatic Temperature Control**

Each line heater unit is equipped with a digital electronic temperature controller. After the controller is set at the desired temperature, the line heater automatically controls the temperature of the oil, thus eliminating overheating or underheating. The oil temperature is measured by a thermocouple located inside the discharge end of the heater.



LHE UL Listed Control Panel

#### **Removable Heat Exchanger Tubes and Heating Elements**

The LHE's low watt density heat input permits the heating surface to operate at lower temperatures and thereby reduces coking and the frequency of cleaning and servicing. The heat exchanger tubes can be easily removed via the grooved coupling for cleaning of any coking buildup. If required, the heating elements can also be easily removed and replaced.



Grooved Couplings for Easy Removal and Cleaning of Heat Exchanger Tubes