**Hi-R-Temp® Packaged Hot Oil Heaters**

### SPECIFICATIONS 8,600,000 BTU/HR

#### DESIGN DETAILS

**General Information**
- Type of Boiler: Coiled Tube
- Model Series: 5937
- Rated Capacity: 8,600,000 Btu/hr
- Fluid Capacity: 123 gal
- Construction Codes: ASME, Hartford, National Board
- Boiler Shell Insulation: Mineral Wool Insulation
- Approx. Shipping Weight: 12,700 lbs

#### Power Requirements
- Main Power: 230/460/575 VAC, 3 Ph, 60 Hz
- Control Power: 120 VAC, 1 Ph, 60Hz
- HP required by blower: 10 HP
- Circulating Pump HP per customer specifications

#### Overall Dimensions
- L x W x H: 110" x 88" x 108"

#### Performance Data

**Fuel Consumption @ Rated Output**
- Gas: 10,750 scfh
- Oil (No. 2): 75.3 gal/hr

**Turndown Ratios:**
- Oil & Gas: 8 to 1

**Combustion and Ventilating Air Required:**
- Oil & Gas: 2,263 scfm

#### Customer Connections
- Stack Outlet: 20" O.D.
- Pump Inlet: 4" 300# flange
- Heater Outlet: 4" 300# flange
- Main Gas Supply: 3" NPT
- Pilot Gas Supply: 1/2" NPT
- Oil Supply: 1" NPT
- Oil Return: 3/4" NPT
- Atomizing Air: 3/8" NPT
- Safety Valve Outlet: 2" NPT

**-Note: varies on application details**

#### Pressure & Temperature

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<tr>
<th>Pressure</th>
<th>Temperature</th>
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<td>225 psig</td>
<td>750° F</td>
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#### Controls
- Low Combustion Air Switch, Flame Safeguard Control, Low Fluid Flow Switch, Coil Temperature Limit Switch, Automatic Time Delay Cooling Cycle, etc.

#### Burner

**Manufacturer:** Vapor Power

**Fuel**
- Natural Gas, No. 2 Fuel Oil, or Combination

**Type (gas):** Multiple Orifice Nozzle

**Type (oil):** Air Atomized

**Fuel Specifications:**
- Oil (No. 2): 141,000 Btu/U.S. gal
- Gas: 1000 Btu/cu ft
- Main Burner: 2 psig
- Pilot Burner: 6" W.C.

**Atomizing Air Requirements:**
- Oil (No. 2): 11 scfm @ 20 psig
- Gas: None required

**Ignition Type:**
- Oil & Gas: Electric spark - interrupted gas pilot