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

**SPECIFICATIONS**  
16,000,000 BTU/HR

### DESIGN DETAILS

**General Information**
- **Type of Boiler**: Coiled Tube
- **Model Series**: 5937
- **Rated Capacity**: 16,000,000 Btu/hr
- **Fluid Capacity**: 235 gal
- **Construction Codes**: ASME, Hartford, National Board
- **Boiler Shell Insulation**: Mineral Wool Insulation
- **Approx. Shipping Weight**: 21,000 lbs

### Power Requirements
- **Main Power**: 230/460/575 VAC, 3 Ph, 60 Hz
- **Control Power**: 120 VAC, 1 Ph, 60Hz
- **HP required by blower**: 25 HP
- **Circulating Pump HP per customer specifications**

### Overall Dimensions
- **L x W x H**: 168” x 103” x 108”

### Performance Data
- **Fuel Consumption @ Rated Output**
  - **Gas**: 20,000 scfh
  - **Oil (No. 2)**: 140.4 gal/hr

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

- **Combustion and Ventilating Air Required**:
  - Oil & Gas: 4,510 scfm

### Customer Connections
- **Stack Outlet**: 28” O.D.
- **Pump Inlet**: 6” 300# flange
- **Heater Outlet**: 6” 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)**: 1 1/2” NPT

**-Note: varies on application details**

### Pressure & Temperature

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<thead>
<tr>
<th>Pressure</th>
<th>Temperature</th>
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<tbody>
<tr>
<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): 20 scfm @ 30 psig
- Gas: None required

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

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