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

**SPECIFICATIONS**

3,300,000 BTU/HR

### DESIGN DETAILS

**General Information**

<table>
<thead>
<tr>
<th>Type of Boiler</th>
<th>Coiled Tube</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Series</td>
<td>5937</td>
</tr>
<tr>
<td>Rated Capacity</td>
<td>3,300,000 Btu/hr</td>
</tr>
<tr>
<td>Fluid Capacity</td>
<td>36 gal</td>
</tr>
<tr>
<td>Construction Codes</td>
<td>ASME, Hartford, National Board</td>
</tr>
<tr>
<td>Boiler Shell Insulation</td>
<td>Mineral Wool Insulation</td>
</tr>
<tr>
<td>Approx. Shipping Weight</td>
<td>6,500 lbs</td>
</tr>
</tbody>
</table>

### Power Requirements

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

### Overall Dimensions

<table>
<thead>
<tr>
<th>L x W x H</th>
</tr>
</thead>
<tbody>
<tr>
<td>80” x 78” x 84”</td>
</tr>
</tbody>
</table>

### Pressure & Temperature

- **Pressure**
  - 225 psig
- **Temperature**
  - 750° F

### 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)**
    - 9 scfm @ 20 psig
  - **Gas**
    - None required
- **Ignition Type**
  - Oil & Gas
    - Electric spark - interrupted gas pilot

### Performance Data

- **Fuel Consumption @ Rated Output**
  - **Gas**
    - 4,125 scfh
  - **Oil (No. 2)**
    - 29.0 gal/hr
- **Turndown Ratios**
  - Oil & Gas
    - 8 to 1
- **Combustion and Ventilating Air Required**
  - Oil & Gas
    - 889 scfm

### Customer Connections

- **Stack Outlet**
  - 14” O.D.
- **Pump Inlet**
  - 3” 300# flange
- **Heater Outlet**
  - 4” 300# flange
- **Main Gas Supply**
  - 2” NPT
- **Pilot Gas Supply**
  - 1/2” NPT
- **Oil Supply**
  - 3/4” NPT
- **Oil Return**
  - 1/2” NPT
- **Atomizing Air**
  - 3/8” NPT
- **Safety Valve Outlet**
  - 1 1/4” NPT

*Note: varies on application details*