

# Hi-R-Temp<sup>®</sup> Packaged Hot Oil Heaters

## SPECIFICATIONS

## 18,000,000 BTU/HR

### DESIGN DETAILS

#### General Information

Type of Boiler	Coiled Tube
Model Series	5937
Rated Capacity	18,000,000 Btu/hr
Fluid Capacity	261 gal
Construction Codes	ASME, Hartford, National Board
Boiler Shell Insulation	Mineral Wool Insulation
Approx. Shipping Weight	23,000 lbs

#### Pressure & Temperature

Pressure	Temperature
225 psig	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)	20 scfm @ 30 psig
Gas	None required

#### Ignition Type:

Oil & Gas	Electric spark - interrupted gas pilot
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#### 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	180" x 103" x 108"
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#### Performance Data

##### Fuel Consumption @ Rated Output

Gas	22,500 scfh
Oil (No. 2)	157.9 gal/hr

##### Turndown Ratios:

Oil & Gas	8 to 1
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##### Combustion and Ventilating Air Required:

Oil & Gas	4,870 scfm
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#### Customer Connections

Stack Outlet	30"	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

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