Hi-R-Temp® Packaged Hot Oil Heaters

SPECIFICATIONS 14,000,000 BTU/HR

DESIGN DETAILS

General Information
Type of Boiler: Coiled Tube
Model Series: 5937
Rated Capacity: 14,000,000 Btu/hr
Fluid Capacity: 209 gal
Construction Codes: ASME, Hartford, National Board
Boiler Shell Insulation: Mineral Wool Insulation
Approx. Shipping Weight: 19,000 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

Power Requirements
Main Power: 230/460/575 VAC, 3 Ph, 60 Hz
Control Power: 120 VAC, 1 Ph, 60Hz
HP required by blower: 20 HP
Circulating Pump HP per customer specifications

Overall Dimensions
L x W x H: 150” x 103” x 108”

Performance Data
Fuel Consumption @ Rated Output
- Gas: 17,500 scfh
- Oil (No. 2): 122.1 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: 4” 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