Hi-R-Temp® Packaged Hot Water Boilers

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
- Water Capacity: 261 gal
- Construction Codes: ASME, Hartford, National Board
- Boiler Shell Insulation: Mineral Wool Insulation
- Approx. Shipping Weight: 23,000 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

Overall Dimensions

- L x W x H: 180” x 103” x 108”

Performance Data

Fuel Consumption @ Rated Output

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

Turndown Ratios:

- Oil & Gas: 8 to 1

Combustion and Ventilating Air Required:

- Oil & Gas: 4,870 scfm

Controls

- Low Combustion Air Switch, Flame Safeguard Control, Low Water Flow Switch, Coil Temperature Limit Switch, Automatic Time Delay Cooling Cycle, etc.

Customer Connections

- Stack Outlet: 30” O.D.
- Water Inlet: 6” Flange
- Water Outlet: 6” 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

- Pressure: Up to 4000 psi
- Temperature: Up to 750° F

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