

Hi-R-Temp[®] Packaged Hot Oil Heaters

SPECIFICATIONS

400,000 BTU/HR

DESIGN DETAILS

General Information

Type of Boiler	Coiled Tube
Model Series	4234
Rated Capacity	400,000 Btu/hr
Fluid Capacity	10 gal
Construction Codes	ASME, Hartford, National Board
Boiler Shell Insulation	Mineral Wool Insulation
Approx. Shipping Weight	1,800 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)	3 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	1 1/2 HP
Circulating Pump HP per customer specifications	

Overall Dimensions

L x W x H	68" x 30" x 59"
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Performance Data

Fuel Consumption @ Rated Output

Gas	513 scfh
Oil (No. 2)	3.6 gal/hr

Turndown Ratios:

Oil & Gas	7 to 1
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Combustion and Ventilating Air Required:

Oil & Gas	137 scfm
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Customer Connections

Stack Outlet	8"	O.D.
Pump Inlet	2"	300# flange
Heater Outlet	1 1/2"	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

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