Modulatic[®] Packaged Once-Through Steam Generators

SPECIFICATIONS

150 BHP

DESIGN DETAILS General Information

Type of Boiler	Watertube
Model Series	4742
Rated Capacity	150 BHP
Equivalent Evaporation	5,175 lb/hr from and at 212°F
Thermal Output	5,025,000 Btu/hr
Construction Codes	ASME, Hartford,
	National Board
Boiler Shell Insulation	Mineral Wool Insulation
Approx. Shipping Weight	7,200 lbs

Pressure psig

Design	Operating	
15	13 max.	
300	250 max.	
600	540 max.	
900	810 max.	

* Consult factory for pressures up to 3200 psig

Controls

Steam Pressure, Low Water Cutoff, Flame Failure Protection, Coil Temperature Limit.

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. galGas1000 Btu/cu ftMain Burner1 psigPilot Burner6" W.C.

Atomizing Air Requiremen	ts:
Oil (No. 2)	10 scfm @ 70 psig
Gas	None required

Ignition Type: Oil & Gas

Electric spark - interrupted gas pilot

Power Requirements

Main Power

Control Power HP required by pump HP required by blower 230/460/575 VAC, 3 Ph, 60 Hz 120 VAC, 1 Ph, 60Hz 7 1/2 HP – for 300 psi 5 HP – for 300 psi

Overall Dimensions

L x W x H	100" x 60" x 109"
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Performance Data

Fuel Consumption @ Rated Output		
Gas	6,350 scfh	
Oil (No. 2)	59.4 gal/hr	
Turndown Ratios:		
Oil & Gas	8 to 1	
Combustion and Ve	ntilating Air Require	

compustion and Ventilating Air Required:Oil & Gas1,738 scfm

Customer Connections

Stack Outlet	18"	O.D.
Steam Outlet		
15 psi	6"	ASA
300, 600 psi	3"	NPT
900 psi	1 1/2"	600#
Main Gas Supply	3"	NPT
Pilot Gas Supply	1/2"	NPT
Oil Supply	3/4"	NPT
Oil Return	1/2"	NPT
Atomizing Air	3/8"	NPT
Feedwater Inlet	2 1/2"	NPT
Blowdown Outlet	1"	NPT
Coil Blowdown Outlet	1"	NPT
Water Pump Relief Valve	1/2"	NPT
Trap Return		
15, 300, 600 psi	1"	NPT
900 psi	1"	NPT
Safety Valve Outlet	2 1/2"	NPT
-Note: varies based on set pressure		

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