Modulatic® Packaged Once-Through Steam Generators

SPECIFICATIONS  40 BHP

DESIGN DETAILS

General Information
Type of Boiler  Watertube
Model Series  4611
Rated Capacity  40 BHP
Equivalent Evaporation  1,380 lb/hr from and at 212°F
Thermal Output  1,340,000 Btu/hr
Construction Codes  ASME, Hartford, National Board
Boiler Shell Insulation  Mineral Wool Insulation
Approx. Shipping Weight  4,000 lbs

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

Overall Dimensions
L x W x H  72” x 52” x 70”

Performance Data
Fuel Consumption @ Rated Output
Gas  1,690 scfh
Oil (No. 2)  11.9 gal/hr

Turndown Ratios:
Oil & Gas  8 to 1

Combustion and Ventilating Air Required:
Oil & Gas  348 scfm

Customer Connections
Stack Outlet  10” O.D.
Steam Outlet
- 15 psi  4” ASA
- 300, 600 psi  1 1/2” NPT
- 900 psi  1 1/2” 600#
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
Feedwater Inlet  1” NPT
Blowdown Outlet  1” NPT
Coil Blowdown Outlet  1” NPT
Water Pump Relief Valve  1/2” NPT
Trap Return
- 15, 300, 600 psi  1/2” NPT
- 900 psi  3/4” NPT
Safety Valve Outlet  1 1/2” NPT

-Note: varies based on set pressure

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. gal
- Gas  1000 Btu/ft³
- Main Burner  1 psig
- Pilot Burner  6” W.C.

Atomizing Air Requirements:
- Oil (No. 2)  5 scfm @ 40 psig
- Gas  None required

Ignition Type:
Oil & Gas  Electric spark - interrupted gas pilot

Vapor Power International

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