Modulatic® Packaged Once-Through Steam Generators

SPECIFICATIONS 100 BHP

DESIGN DETAILS

General Information
Type of Boiler: Watertube
Model Series: 4626
Rated Capacity: 100 BHP
Equivalent Evaporation: 3,450 lb/hr from and at 212°F
Thermal Output: 3,350,000 Btu/hr
Construction Codes: ASME, Hartford, National Board
Boiler Shell Insulation: Mineral Wool Insulation
Approx. Shipping Weight: 5,300 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: 5 HP – for 300 psi

Overall Dimensions
L x W x H: 87” x 60” x 82”

Pressure psig

<table>
<thead>
<tr>
<th>Design</th>
<th>Operating</th>
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<tbody>
<tr>
<td>15</td>
<td>13 max.</td>
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<tr>
<td>300</td>
<td>250 max.</td>
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<tr>
<td>600</td>
<td>540 max.</td>
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<tr>
<td>900</td>
<td>810 max.</td>
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* Consult factory for pressures up to 3200 psig

Performance Data

Fuel Consumption @ Rated Output
- Gas: 4,240 scfh
- Oil (No. 2): 29.7 gal/hr

Turndown Ratios:
- Oil & Gas: 8 to 1

Combustion and Ventilating Air Required:
- Oil & Gas: 869 scfm

Customer Connections

Stack Outlet: 13” O.D.
Steam Outlet:
- 15 psi: 6” 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: 2” NPT
Blowdown Outlet: 1” NPT
Coil Blowdown Outlet: 1” NPT
Water Pump Relief Valve: 1/2” NPT
Trap Return:
- 15, 300, 600 psi: 3/4” NPT
- 900 psi: 1” NPT
Safety Valve Outlet: 2” NPT

- Note: varies based on set pressure

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