

# Modulatic<sup>®</sup> 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

#### 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/cu ft
Main Burner	1 psig
Pilot Burner	6" W.C.

#### Atomizing Air Requirements:

Oil (No. 2)	10 scfm @ 70 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 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"
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### Performance Data

#### Fuel Consumption @ Rated Output

Gas	4,240 scfh
Oil (No. 2)	29.7 gal/hr

#### Turndown Ratios:

Oil & Gas	8 to 1
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#### Combustion and Ventilating Air Required:

Oil & Gas	869 scfm
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### 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

**VAPOR POWER** INTERNATIONAL