

Circulatic[®] Packaged Re-Circulating Steam Generators

SPECIFICATIONS

100 BHP

DESIGN DETAILS

General Information

Type of Boiler	Watertube
Model Series	5907
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	5,800 lbs

Pressure psig

Design	Operating
15	13 max.
150	135 max.
250	225 max.
530	475 max.

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	2 psig
Pilot Burner	6" W.C.

Atomizing Air Requirements:

Oil (No. 2)	9 scfm @ 20 psig
Gas	None required

Ignition Type:

Oil & Gas	Electric spark - interrupted gas pilot
-----------	---

Power Requirements

Main Power	230/460/575 VAC, 3 Ph, 60 Hz
Control Power	120 VAC, 1 Ph, 60Hz
HP required by circulating pump	10 HP
HP required by blower	5 HP

Overall Dimensions

L x W x H	110" x 78" x 96"
-----------	------------------

Performance Data

Fuel Consumption @ Rated Output

Gas	4,188 scfh
Oil (No. 2)	29.3 gal/hr

Turndown Ratios:

Oil & Gas	8 to 1
-----------	--------

Combustion and Ventilating Air Required:

Oil & Gas	887 scfm
-----------	----------

Customer Connections

Stack Outlet	14"	O.D.
Steam Outlet		
15 psi	6"	ASA
150, 250, 530 psi	2 1/2"	ASA
Main Gas Supply	2 1/2"	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
Surface Blowdown Outlet	3/8"	NPT
Safety Valve Outlet	2 1/2"	NPT

-Note: varies based on set pressure

VAPOR POWER INTERNATIONAL