

# Circulatic<sup>®</sup> Packaged Re-Circulating Steam Generators

## SPECIFICATIONS

## 450 BHP

### DESIGN DETAILS

#### General Information

Type of Boiler	Watertube
Model Series	5907
Rated Capacity	450 BHP
Equivalent Evaporation	15,525 lb/hr from and at 212°F
Thermal Output	15,075,000 Btu/hr
Construction Codes	ASME, Hartford, National Board
Boiler Shell Insulation	Mineral Wool Insulation
Approx. Shipping Weight	17,500 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)	20 scfm @ 30 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 circulating pump	20 HP
HP required by blower	20 HP

### Overall Dimensions

L x W x H 155" x 92" x 116"

\* Width does not include blower extension beyond body of Circulatic

### Performance Data

#### Fuel Consumption @ Rated Output

Gas	18,844 scfh
Oil (No. 2)	132 gal/hr

#### Turndown Ratios:

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

Oil & Gas	4,510 scfm
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### Customer Connections

Stack Outlet	28"	O.D.
Steam Outlet		
15 psi	12"	ASA
150, 250, 530 psi	6"	ASA
Main Gas Supply	3"	NPT
Pilot Gas Supply	1/2"	NPT
Oil Supply	1"	NPT
Oil Return	3/4"	NPT
Atomizing Air	1/2"	NPT
Feedwater Inlet	1 1/2"	NPT
Blowdown Outlet	1"	NPT
Surface Blowdown Outlet	3/8"	NPT
Safety Valve Outlet (2)	2 1/2"	NPT

-Note: varies based on set pressure

**VAPOR POWER** INTERNATIONAL