Circulatic® Packaged Re-Circulating Steam Generators

SPECIFICATIONS 500 BHP

DESIGN DETAILS

General Information
Type of Boiler: Watertube
Model Series: 5907
Rated Capacity: 500 BHP
Equivalent Evaporation: 17,250 lb/hr from and at 212°F
Thermal Output: 16,750,000 Btu/hr
Construction Codes: ASME, Hartford, National Board
Boiler Shell Insulation: Mineral Wool Insulation
Approx. Shipping Weight: 18,300 lbs

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

Power Requirements
Main Power: 230/460/575 VAC, 3 Ph, 60 Hz
Control Power: 120 VAC, 1 Ph, 60Hz
HP required by circulating pump: 25 HP
HP required by blower: 25 HP

Overall Dimensions
L x W x H: 168” x 92” x 116”
* Width does not include blower extension beyond body of Circulatic

Performance Data
Fuel Consumption @ Rated Output
Gas: 20,938 scfh
Oil (No. 2): 146.7 gal/hr

Turndown Ratios:
Oil & Gas: 8 to 1

Combustion and Ventilating Air Required:
Oil & Gas: 4,510 scfm

Customer Connections
Stack Outlet: 28” O.D.
Steam Outlet: 15 psi
12” NPT
150, 250, 530 psi
6” NPT
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

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): 23 scfm @ 30 psig
Gas: None required

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