

SPECIFICATIONS

Gerador de Vapor SigmaFire by Clayton - SF25/35 (BHP)

MODEL SF100

	MODEL SF100 Standard	MODEL SF100-SE with Super Economizer	MODEL SF100-FMB with Low NOx FMB Burner	MODEL SF100-SE-FMB with Low NOx FMB Burner and Super Economizer
BOILER HORSEPOWER	100	100	100	100
HEAT INPUT, BTU/hr	Oil 4,033,133 Gas 4,082,317	3,892,442 3,938,235	NA 4,132,716 3,347,500	NA 3,938,235 3,347,500
NET HEAT OUTPUT, BTU/hr	3,347,500	3,347,500	3,347,500	3,347,500
EQUIVALENT OUTPUT (from and at 212°F feedwater and 0 PSIG steam)	3,450 lbs/hr	3,450 lbs/hr	3,450 lbs/hr	3,450 lbs/hr
DESIGN PRESSURE (see note 1)	15 - 500 psig	15 - 500 psig	15 - 500 psig	15 - 500 psig
STEAM OPERATING PRESSURE (determined by design pressure)	13 - 450 psig	13 - 450 psig	13 - 450 psig	13 - 450 psig
OIL CONSUMPTION at maximum steam output (see note 2)	28.7 gph	27.7 gph	NA	NA
GAS CONSUMPTION at maximum steam output (see note 3)	4,082 cfh	3,938 cfh	4,133 cfh	3,938 cfh
BURNER CONTROLS				
step fired	100% / 50% / Off	100% / 50% / Off	N/A	N/A
modulating (see note 4)	5 to 1 Turndown	5 to 1 Turndown	4 to 1 Turndown	4 to 1 Turndown
EFFICIENCY				
oil-fired efficiency %	83%	86%	NA	NA
gas-fired efficiency %	82%	85%	81%	85%
ELECTRIC MOTORS, HP (see note 5)	Blower Pump	Blower Pump	Blower Pump Cooling	Blower Pump Cooling
design pressure 15-150 psig	5 3	5 5	10 3 3	10 5 3
design pressure 200-500 psig	5 5	5 5	10 5 3	10 5 3
ELECTRIC FLA, based on 460 V (see note 5)				
design pressure 15-300 psig	17	17	30	30
design pressure 301-500 psig	20	20	33	33
GAS SUPPLY PRESSURE REQUIRED	2 psig	2 psig	2 psig	2 psig
AIR SUPPLY REQUIRED (FMB - see note 6)	NA	NA	5 scfm @ 3 to 150 psig	5 scfm @ 3 to 150 psig
WATER SUPPLY REQUIRED	530 gph	530 gph	530 gph	530 gph
HEATING SURFACE	198 sq.ft.	279 sq.ft.	198 sq.ft.	279 sq. ft.
EXHAUST STACK CONNECTION, o.d.	12 in.	12 in.	12 in.	12 in.
APPROXIMATE OVERALL DIMENSIONS				
length	73 in.	73 in.	92 in.	92 in.
width	76 in.	76 in.	73 in.	73 in.
height	76 in.	92 in.	77 in.	92 in.
WEIGHT				
installed - wet	4,285 lbs	4,739 lbs	4,365 lbs	4,819 lbs
shipping	3,960 lbs	4,330 lbs	4,040 lbs	4,410 lbs

1) Design pressures are available up to 3000 psig. Consult factory for details.

2) Based on No. 2 fuel oil with a High Heat Value (HHV) of 140,600 BTU/Gal.

3) Based on Natural Gas with a High Heat Value (HHV) of 1,000 BTU/Ft.³

4) On dual fuel units only gas fired is modulating, oil fired is step fired. Switching fuels requires a manual change of burners

5) Oil fired units also use a separate motor driven fuel oil pump - 3/4 HP

6) Continuous running. For 575 V multiply by 0.8; for 380 V multiply by 1.1; for 230 V multiply by 2.0; for 208 V multiply by 2.2.

7) Compressed air required for FMB only.

The description and specifications shown were in effect at the time this publication was approved for printing. Clayton Industries, whose policy is one of continuous improvement, reserves the right to discontinue models, or change specifications or design, without notice.

