

SPECIFICATIONS

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

MODEL SF125

	MODEL SF125 Standard	MODEL SF125-SE with Super Economizer	MODEL SF125-FMB with Low NOx FMB Burner	MODEL SF125-SE-FMB with Low NOx FMB Burner and Super Economizer
BOILER HORSEPOWER	125	125	125	125
HEAT INPUT, BTU/hr				
Oil	5,041,416	4,865,552	NA	NA
Gas	5,102,896	4,922,794	5,165,895	4,922,794
NET HEAT OUTPUT, BTU/hr	4,184,375	4,184,375	4,184,375	4,184,375
EQUIVALENT OUTPUT (from and at 212°F feedwater and 0 PSIG steam)	4,313 lbs/hr	4,313 lbs/hr	4,313 lbs/hr	4,313 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)	35.9 gph	34.6 gph	NA	NA
GAS CONSUMPTION at maximum steam output (see note 3)	5,103 cfh	4,923 cfh	5,166 cfh	4,923 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	7.5 5	7.5 7.5	10 5 3	10 7.5 3
design pressure 200-500 psig	7.5 7.5	7.5 7.5	10 7.5 3	10 7.5 3
ELECTRIC FLA, based on 460 V (see note 6)				
design pressure 15-300 psig	24	24	33	33
design pressure 301-500 psig	28	28	36	36
GAS SUPPLY PRESSURE REQUIRED	2 psig	2 psig	2 psig	2 psig
AIR SUPPLY REQUIRED (FMB - see note 7)	NA	NA	5 scfm @ 3 to 150 psig	5 scfm @ 3 to 150 psig
WATER SUPPLY REQUIRED	663 gph	663 gph	663 gph	663 gph
HEATING SURFACE	279 sq.ft.	360 sq.ft.	279 sq.ft.	360 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	92 in.	106 in.	92 in.	106 in.
WEIGHT				
installed - wet	4,767 lbs	5,245 lbs	4,847 lbs	5,325 lbs
shipping	4,300 lbs	4,670 lbs	4,380 lbs	4,750 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 - 1 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.

