

SPECIFICATIONS

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

MODEL SF75

		MODEL SF75 Standard	MODEL SF75-SE with Super Economizer	MODEL SF75-FMB with Low NOx FMB Burner	MODEL SF75-SE-FMB with Low NOx FMB Burner and Super Economizer
BOILER HORSEPOWER		75	75	75	75
HEAT INPUT, BTU/hr	Oil	3,024,849	2,919,331	NA	NA
	Gas	3,061,738	2,953,676	3,099,537	2,953,676
NET HEAT OUTPUT, BTU/hr		2,510,625	2,510,625	2,510,625	2,510,625
EQUIVALENT OUTPUT (from and at 212°F feedwater and 0 PSIG steam)		2,587 lbs/hr	2,587 lbs/hr	2,587 lbs/hr	2,587 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)		21.5 gph	20.8 gph	NA	NA
GAS CONSUMPTION at maximum steam output (see note 3)		3,062 cfh	2,954 cfh	3,100 cfh	2,954 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 15-300 psig		5 3	5 3	7.5 3 3	7.5 3 3
design pressure 301-500 psig		5 5	5 5	7.5 5 3	7.5 5 3
ELECTRIC FLA, based on 460 V (see note 6)					
design pressure 15-300 psig		17	17	25.3	25.3
design pressure 301-500 psig		20	20	28.4	28.4
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		398 gph	398 gph	398 gph	398 gph
HEATING SURFACE		145 sq.ft.	184 sq.ft.	145 sq.ft.	184 sq.ft.
EXHAUST STACK CONNECTION, o.d.		12 in.	12 in.	12 in.	12 in.
APPROXIMATE OVERALL DIMENSIONS					
length		63 in.	63 in.	63 in.	63 in.
width		68 in.	68 in.	68 in.	68 in.
height		86 in.	98 in.	86 in.	98 in.
WEIGHT					
installed - wet		3,983 lbs	4,255 lbs	3,983 lbs	4,255 lbs
shipping		3,800 lbs	4,030 lbs	3,800 lbs	4,030 lbs

1) Design pressure 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 - 1/2 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.

