

SPECIFICATIONS

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

MODEL SF50

		MODEL SF50 Standard	MODEL SF-50-SE with Super Economizer	MODEL SF50-FMB with Low NOx FMB Burner	MODEL SF50-SE-FMB with Low NOx FMB Burner and Super Economizer
BOILER HORSEPOWER		50	50	50	50
HEAT INPUT, BTU/hr	Oil	2,016,566	1,946,221	NA	NA
	Gas	2,041,159	1,969,118	2,066,358	1,969,118
NET HEAT OUTPUT, BTU/hr		1,673,750	1,673,750	1,673,750	1,673,750
EQUIVALENT OUTPUT (from and at 212°F feedwater and 0 PSIG steam)		1,725 lbs/hr	1,725 lbs/hr	1,725 lbs/hr	1,725 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)		14.3 gph	13.8 gph	NA	NA
GAS CONSUMPTION at maximum steam output (see note 3)		2,041 cfh	1,969 cfh	2,066 cfh	1,969 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%	N/A	N/A
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		3 2	3 2	5 2 3	5 2 3
design pressure 301-500 psig		3 3	3 3	5 3 3	5 3 3
ELECTRIC FLA, based on 460 V (see note 6)					
design pressure 15-300 psig		11	11	19.5	19.5
design pressure 301-500 psig		13	13	21	21
GAS SUPPLY REQUIRED		2.0 psig	2.0 psig	2.0 psig	2.0 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		265 gph	265 gph	265 gph	265 gph
HEATING SURFACE		106 sq.ft.	145 sq.ft.	106 sq.ft.	145 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		66 in.	66 in.	66 in.	66 in.
height		75 in.	86 in.	75 in.	86 in.
WEIGHT					
installed - wet		3,842 lbs	4,113 lbs	3,842 lbs	4,113 lbs
shipping		3,700 lbs	3,930 lbs	3,700 lbs	3,930 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 - 1/2 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.

