

# SPECIFICATIONS

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

### MODEL SF150

		MODEL SF150 Standard	MODEL SF150-SE with Super Economizer	MODEL SF150-FMB with Low NOx FMB Burner	MODEL SF150-SE-FMB with Low NOx FMB Burner and Super Economizer
<b>BOILER HORSEPOWER</b>		150	150	150	150
<b>HEAT INPUT, BTU/hr</b>	Oil	6,049,699	5,838,663	NA	NA
	Gas	6,123,476	5,907,353	6,199,074	5,907,353
<b>NET HEAT OUTPUT, BTU/hr</b>		5,021,250	5,021,250	5,021,250	5,021,250
<b>EQUIVALENT OUTPUT (from and at 212°F feedwater and 0 PSIG steam)</b>		5,175 lbs/hr	5,175 lbs/hr	5,175 lbs/hr	5,175 lbs/hr
<b>DESIGN PRESSURE (see note 1)</b>		15 - 500 psig	15 - 500 psig	15 - 500 psig	15 - 500 psig
<b>STEAM OPERATING PRESSURE (determined by design pressure)</b>		13 - 450 psig	13 - 450 psig	13 - 450 psig	13 - 450 psig
<b>OIL CONSUMPTION at maximum steam output (see note 2)</b>		43.0 gph	41.5 gph	NA	NA
<b>GAS CONSUMPTION at maximum steam output (see note 3)</b>		6,123 cfh	5,907 cfh	6,199 cfh	5,907 cfh
<b>BURNER CONTROLS</b>					
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
<b>EFFICIENCY</b>					
oil-fired efficiency %		83%	86%	NA	NA
gas-fired efficiency %		82%	85%	81%	85%
<b>ELECTRIC MOTORS, HP (see note 5)</b>		Blower   Pump	Blower   Pump	Blower   Pump   Cooling	Blower   Pump   Cooling
design pressure 15-300 psig		7.5   5	7.5   5	10   5   3	10   5   3
design pressure 301-500 psig		7.5   7.5	7.5   7.5	10   7.5   3	10   7.5   3
<b>ELECTRIC FLA, based on 460 V (see note 6)</b>					
design pressure 15-300 psig		24	24	33	33
design pressure 301-500 psig		28	28	36	36
<b>GAS SUPPLY REQUIRED</b>		2 psig	2 psig	2 psig	2 psig
<b>AIR SUPPLY REQUIRED (FMB - see note 7)</b>		NA	NA	5 scfm @ 3 to 150 psig	5 scfm @ 3 to 150 psig
<b>WATER SUPPLY REQUIRED</b>		795 gph	795 gph	795 gph	795 gph
<b>HEATING SURFACE</b>		230 sq.ft.	314 sq.ft.	230 sq.ft.	314 sq.ft.
<b>EXHAUST STACK CONNECTION, o.d.</b>		18 in.	18 in.	18 in.	18 in.
<b>APPROXIMATE OVERALL DIMENSIONS</b>					
length		81 in.	81 in.	85 in.	85 in.
width		81 in.	81 in.	101 in.	101 in.
height		93 in.	112 in.	93 in.	112 in.
<b>WEIGHT</b>					
installed - wet		5,134 lbs	5,675 lbs	5,214 lbs	5,755 lbs
shipping		4,600 lbs	4,975 lbs	4,680 lbs	5,055 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.<sup>3</sup>

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.

