

# SPECIFICATIONS

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

MODEL SF25 / SF35		MODEL SF25 Standard	MODEL SF25-SE with Super Economizer	MODEL SF35 Standard	MODEL SF35-SE with Super Economizer
<b>BOILER HORSEPOWER</b>		25	25	35	35
<b>HEAT INPUT, BTU/hr</b>	Oil	1,008,283	973,110	1,411,596	1,362,355
	Gas	1,020,579	984,559	1,428,811	1,378,382
<b>NET HEAT OUTPUT, BTU/hr</b>		836,875	836,875	1,171,625	1,171,625
<b>EQUIVALENT OUTPUT (from and at 212°F feedwater and 0 PSIG steam)</b>		863 lbs/hr	863 lbs/hr	1,208 lbs/hr	1,208 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>		7.2 gph	6.9 gph	10.0 gph	9.7 gph
<b>GAS CONSUMPTION at maximum steam output (see note 3)</b>		1,021 cfh	985 cfh	1,429 cfh	1,378 cfh
<b>BURNER CONTROLS</b>		100% / 50% / Off	100% / 50% / Off	100% / 50% / Off	100% / 50% / Off
<b>EFFICIENCY</b>					
oil-fired efficiency %		83%	86%	83%	86%
gas-fired efficiency %		82%	85%	82%	85%
<b>ELECTRIC MOTORS, HP (see note 4)</b>		Blower   Pump	Blower   Pump	Blower   Pump	Blower   Pump
design pressure 15-300 psig		2   1.5	2   1.5	3   1.5	3   1.5
design pressure 301-500 psig		2   2	2   2	3   2	3   2
<b>ELECTRIC FLA, based on 460 V (see note 5)</b>					
design pressure 15-300 psig		9.0	9.0	11.0	11.0
design pressure 301-500 psig		10	10	11	11
<b>GAS SUPPLY PRESSURE REQUIRED</b>		2 psig	2 psig	2 psig	2 psig
<b>WATER SUPPLY PRESSURE REQUIRED</b>		135 gph	135 gph	189 gph	189 gph
<b>HEATING SURFACE</b>		88.7 sq.ft.	118.6 sq.ft.	118.6 sq.ft.	148.5 sq.ft.
<b>EXHAUST STACK CONNECTION, o.d.</b>		8 in.	8 in.	10 in.	10 in.
<b>APPROXIMATE OVERALL DIMENSIONS</b>					
length		58 in.	58 in.	58 in.	58 in.
width		56 in.	56 in.	56 in.	56 in.
height		71 in.	83 in.	83 in.	94 in.
<b>WEIGHT</b>					
installed - wet		2,012 lbs	2,187 lbs	2,187 lbs	2,362 lbs
shipping		1,920 lbs	2,070 lbs	2,070 lbs	2,220 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) Oil fired units also use a separate motor driven fuel oil pump - 1/2 HP

5) 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.

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.

