M O

Specifications

Advanced Steam Boiler Technology that is Safe, Efficient and Reliable

CLAYTON STEAM GENERATORS OFFER:

COMPACT SIZE

Clayton steam generators will normally fit in any available area while also reducing construction costs on new building installations.

FUEL EFFICIENT

High efficiency which is inherent with the clayton design translates into lower operating costs and improved overall system operation

RESPONSIVE

Very rapid response to changing steam loads. Clayton steam generator will automatically modulate to match your steam load profile while maintaining system steam pressure

SAFE

Our once through design eliminates the possibility of a steam or water side explosion. The Clayton steam generator is simply the safest steam boiler on the market.

LESS WATER WASTE

Clayton's design concentrates TDS blow down significantly which reduces wasted fuel, water and chemical costs.

FAST START

Full steam pressure and output in minutes from a cold startup saves fuel and labor cost over conventional designs. Eliminates wasted fuel from idling.

AUTOMATIC

Operation is automatically controlled and the Clayton steam generator can be started from a single switch or remotely using an automatic start option.

LOW WEIGHT

The relatively light weight means that all sizes of Clayton steam generators can be easily moved and installed even in areas with limited structural support.

RELIABLE

Reliability of the Clayton steam generator is field proven and unsurpassed. This results in greatly reduced maintenance and attendance.

HIGH QUALITY STEAM

Steam Quality in excess of 99.5% dry is assured at all times. This is the highest steam quality of any competitive design. Less water and impurities further increase your energy efficiency.

MODEL E504 STEAM GENERATOR 500 BHP







							MOD	EL SEG	504-FMB
MODEL	_ E504	MODEL SE504		MODEL EG504-FMB		with Low NOx Burner			
Stand	dard	with Super	with Super Economizer with Low NOx Burner		Burner	and Super Economizer			
500		500		500			500		
20,165,663		19,462,209		NA		NA			
20,411,585		19,691,176		20,663,580		19,691,176			
16,737,500		16,737,500		16,737,500		16,737,500			
17,250 lbs/hr		17,250 lbs/hr		17,250 lbs/hr			17,250 lbs/hr		
65 - 500 PSIG		65 - 500 PSIG		65 - 500 PSIG			65 - 500 PSIG		
60 - 450 PSIG		60 - 450 PSIG		60 - 450 PSIG			60 - 450 PSIG		
143.4 gph		138.4 gph		N/A			N/A		
1]							
20,412 cfh		19,691 cfh		20,664 cfh		19,691 cfh			
,		1		1		,,,,			
5 to 1 Turndown		5 to 1 Turndown		4 to 1 Turndown		4 to 1 Turndown			
83%		86%		NA		NA			
82%		85%		81%		85%			
Blower	Pump	Blower	Pump	Blower	Pump	Cooling	Blower	Pum	Cooling
25	20	25	20	30	20	7.5	30	20	7.5
25	30	25	30	30	30	7.5	30	30	7.5
'			!			ū			•
74		74		92		92			
85		85		107			107		
5 to 10 psig		5 to 10 psig		5 to 10 psig			5 to 10 psig		
					•	•			
30 scfm		30 scfm		NA			NA NA		
70 psia		70 psig		NA		NA NA			
N/A		N/A		5 scfm @ 3 to 150 psig		5 scfm @ 3 to 150 psig			
2,650 gph		2,650 gph		2,650 gph		2,650 gph			
912 sq.ft.				912 sq.ft.		1,207 sq.ft.			
32 in.		32 in.		32 in.		32 in.			
129 in.		129 in.		129 in.		129 in.			
140 in.		140 in.		140 in.		140 in.			
131 in.		157 in.		131 in.		164 in.			
17,408 lbs		20,400 lbs		17,708 lbs			20,700 lbs		
14,790 lbs		17,190 lbs		15,090 lbs			17,490 lbs		
•		•		2,000 lbs		2,000 lbs			
	Stand 50 20,165 20,411 16,737 17,250 65 - 500 60 - 450 143.4 20,412 5 to 1 Tu 833 822 Blower 25 25 74 84 5 to 10 30 sc 70 p N// 2,6500 912 s 32 129 140 131 17,400 14,796	20,165,663 20,411,585 16,737,500 17,250 lbs/hr 65 - 500 PSIG 60 - 450 PSIG 143.4 gph 20,412 cfh 5 to 1 Turndown 83% 82% Blower Pump 25 20 25 30 74 85 5 to 10 psig 30 scfm 70 psig N/A 2,650 gph 912 sq.ft. 32 in. 129 in. 140 in. 131 in. 17,408 lbs	Standard with Super 500 500 20,165,663 19,46; 20,411,585 19,69; 16,737,500 16,73; 17,250 lbs/hr 17,250 65 - 500 PSIG 65 - 50 60 - 450 PSIG 60 - 45 143.4 gph 138.4 20,412 cfh 19,69 5 to 1 Turndown 5 to 1 Turndown 83% 86 82% 85 Blower Pump 25 20 25 30 25 30 30 scfm 70 psig N/A N/A 2,650 gph 2,650 912 sq.ft. 1,207 32 in. 32 140 in. 140 131 in. 157 17,408 lbs 20,40 14,790 lbs 17,19	Standard with Super Economizer 500 500 20,165,663 19,462,209 20,411,585 19,691,176 16,737,500 16,737,500 17,250 lbs/hr 65 - 500 PSIG 65 - 500 PSIG 65 - 500 PSIG 60 - 450 PSIG 60 - 450 PSIG 143.4 gph 138.4 gph 20,412 cfh 19,691 cfh 5 to 1 Turndown 86% 82% 85% Blower Pump 25 20 25 30 74 85 85 5 to 10 psig 30 scfm 70 psig N/A 2,650 gph 912 sq.ft. 32 in. 129 in. 140 in. 140 in. 131 in. 17,408 lbs 20,400 lbs 14,790 lbs 17,190 lbs	Standard with Super Economizer with L 500 500 20,165,663 19,462,209 20,411,585 19,691,176 2 16,737,500 16,737,500 1 17,250 lbs/hr 17,250 lbs/hr 17 65 - 500 PSIG 65 - 500 PSIG 65 60 - 450 PSIG 60 - 450 PSIG 60 4 43.4 gph 138.4 gph 2 20,412 cfh 19,691 cfh 2 5 to 1 Turndown 5 to 1 Turndown 4 to 83% 82% 85% 85% Blower 25 20 30 Pump 25 20 30 25 Blower 30 30 Pump 30 30 Blower 30 30 30 74 85 5 to 10 psig 74 85 5 to 10 psig 5 5 30 scfm 70 psig N/A 2,650 gph 912 sq.ft. 32 in. 30 scfm 70 psig 1,207 sq.ft. 32 in. 5 scfm 129 in. 140 in. 131 in. 129 in. 140 in. 157 in. 129 in. 17,190 lbs 17,190 lbs	Standard with Super Economizer with Low NOx 500 500 500 500 20,165,663 19,462,209 NA 20,411,585 19,691,176 20,663,58 16,737,500 16,737,500 16,737,50 17,250 lbs/hr 65 - 500 PSIG 65 - 500 PSIG 65 - 500 PSIG 65 - 500 PSIG 60 - 450 PSIG 65 - 500 PSIG 65 - 500 PSIG 60 - 450 PSIG 60 - 450 PSIG 60 - 450 PSIG 60 - 450 PSIG 143.4 gph 138.4 gph N/A 20,412 cfh 19,691 cfh 20,664 cf 5 to 1 Turndown 4 to 1 Turndown 83% 82% 86% 85% NA 81% Blower 25 20 20 30 30 20 25 30 25 30 30 74 85 5 74 85 30 74 30 74 30 NA 30 NA 30 30 scfm 70 psig N/A 30 scfm 2,650 gph 1,207 sq.ft. 32 in. NA 32 in. 5 scfm @ 3 to 1 2,650 gp 912 sq.ft. 32 in. 129 in. 140 in. 140 in. 140	Standard with Super Economizer with Low NOx Burner 500 500 500 500 20,165,663 19,462,209 19,462,209 16,737,500 17,250 185/hr 65 - 500 PSIG 65 - 500 PSIG 60 - 450 PSIG 7.5 7.	MODEL E504 Standard with Super Economizer S00 S00 20,165,663 19,462,209 NA 20,411,585 19,691,176 20,663,580 16,737,500 16,	Standard with Super Economizer with Low NOx Burner and Super Economizer 500 50

- 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) Oil fired units also use a separate motor driven fuel oil pump 3/4 HP
- 4) 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.
- 5) Atomizing air required for oil burner.
- 6) Compressed air required for FMB.

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.



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