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Specifications

Advanced Steam Boiler Technology that is Safe, Efficient and Reliable

CLAYTON FLUID HEATERS 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 E804-DZ FLUID HEATER 800 BHP





SPECIFICATIONS

MODEL E804							MODEL SEG804-FMB		
	MODE	L E804	MODEL SE804		MODEL EG804-FMB		with Low NOx Burner		
	Star	ndard	with Super Economizer		with Low NOx Burner		and Super Economizer		
BOILER HORSEPOWER	8	800		800		800		800	
HEAT INPUT, BTU/hr Oi	32,26	32,265,060		31,139,535		NA		NA	
Ga	s 32,65	8,537	31,50	5,882	33,061,728		31,505,882		
NET HEAT OUTPUT, BTU/hr	26,78	26,780,000		26,780,000		26,780,000		26,780,000	
EQUIVALENT OUTPUT (from and at 212°F									
feedwater and 0 PSIG steam)	27,600	27,600 lbs/hr		27,600 lbs/hr		27,600 lbs/hr		27,600 lbs/hr	
DESIGN PRESSURE (see note 1)	65 - 50	65 - 500 psig		65 - 500 psig		65 - 500 psig		65 - 500 psig	
STEAM OPERATING PRESSURE	60 - 4	60 - 450 psig		60 - 450 psig		60 - 450 psig		60 - 450 psig	
(determined by design pressure)				1				'	
OIL CONSUMPTION	229	229 gph		221 gph		NA		NA	
at maximum steam output (see note 2)]]					
GAS CONSUMPTION `	32,6	32,659 cfh		31,506 cfh		33,062 cfh		31,506 cfh	
at maximum steam output (see note 3)	,		·				1		
BURNER CONTROLS									
modulating	5 to 1 T	5 to 1 Turndown		5 to 1 Turndown		4 to 1 Turndown		4 to 1 Turndown	
EFFICIENCY									
oil-fired efficiency %	83	83%		86%		NA		NA	
gas-fired efficiency %	82	82%		85%		81%		85%	
ELECTRIC MOTORS, HP (see note 4)	Blower	Pump	Blower	Pump	Blower Pump	Cooling	Blower	Pump Cooling	
design pressure 15-300 psig	75	50	75	50 ·	100 50	7.5	100	50 7.5	
design pressure 301-500 psig	75	60	75	60	100 60	7.5	100	60 7.5	
ELECTRIC FLA, based on 460 V (see note s	5)		'		'		1	•	
design pressure 15-300 psig	´ 1	194		194		239		239	
design pressure 301-500 psig	2	207		207		252		252	
GAS SUPPLY PRESSURE REQUIRED	5 to 1	5 to 10 psig		5 to 10 psig		5 to 10 psig		5 to 10 psig	
ATOMIZING AIR REQUIRED (see note 6)					•	•		. •	
Capacity	30 9	30 scfm		30 scfm		N/A		N/A	
Minimum pressure	70	70 psig		70 psig		N/A		N/A	
AIR SUPPLY REQUIRED (FMB -see note 7)		N/A		N/A		5 scfm @ 3 to 150 psig		5 scfm @ 3 to 150 psig	
WATER SUPPLY REQUIRED		4,240 gph		4,240 gph		4,240 gph		4,240 gph	
HEATING SURFACE	1,523	1,523 sq.ft.		1,701 sq.ft.		1,523 sq.ft.		1,701 sq.ft.	
EXHAUST STACK DIAMETER, o.d.	35.7	35.75 in.		35.75 in.		35.75 in.		35.75 in.	
APPROXIMATE OVERALL DIMENSIONS									
length	15 ⁴	151 in.		151 in.		160 in.		160 in.	
width	133	133 in.		133 in.		149 in.		149 in.	
height	198	198 in.		224 in.		198 in.		224 in.	
WEIGHT									
installed - wet	28,5	28,535 lbs		32,244 lbs		28,835 lbs		32,544 lbs	
shipping	24,50	24,500 lbs		27,800 lbs		24,800 lbs		28,100 lbs	
FW pump skid	3,20	3,200 lbs		3,200 lbs		3,200 lbs		3,200 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) Oil fired units also use a separate motor driven fuel oil pump 3/4 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.
- 6) Atomizing air required for oil burner.
- 7) 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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