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 start-up 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 E204 STEAM GENERATOR 200 BHP

Clayton
INNOVATIVE STEAM SOLUTIONS

SAVES FUEL * SAVES SPACE * SAVES TIME * SAVES MONEY

SPECIFICATIONS

MODEL E204

		MODEL E204 Standard	MODEL SE204 with Super Economizer	MODEL EG204-FMB with Low NOx Burner	MODEL SEG204-FMB with Low NOx Burner and Super Economizer
BOILER HORSEPOWER		200	200	200	200
HEAT INPUT, BTU/hr	Oil	8,066,265	7,784,884	NA	NA
	Gas	8,164,634	7,876,471	8,265,432	7,876,471
NET HEAT OUTPUT, BTU/hr		6,695,000	6,695,000	6,695,000	6,695,000
EQUIVALENT OUTPUT (from and at 212°F feedwater and 0 PSIG steam)		6,900 lbs/hr	6,900 lbs/hr	6,900 lbs/hr	6,900 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)		57.4 gph	55.4 gph	NA	NA
GAS CONSUMPTION at maximum steam output (see note 3)		8,165 cfh	7,876 cfh	8,265 cfh	7,876 cfh
BURNER CONTROLS modulating		5 to 1 Turndown	5 to 1 Turndown	4 to 1 Turndown	4 to 1 Turndown
EFFICIENCY					
oil-fired efficiency %		83%	86%	NA	NA
gas-fired efficiency %		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		10 / 7.5	10 / 7.5	10 / 7.5 / 5	10 / 7.5 / 5
design pressure 301-500 psig		10 / 10	10 / 10	10 / 10 / 5	10 / 10 / 5
ELECTRIC FLA, based on 460 V (see note 5)					
design pressure 15-300 psig		32	32	39	39
design pressure 301-500 psig		35	35	42	42
GAS SUPPLY PRESSURE REQUIRED		5 to 10 psig	5 to 10 psig	5 to 10 psig	5 to 10 psig
ATOMIZING AIR REQUIRED (see note 6)					
Capacity		25 scfm	25 scfm	NA	NA
Minimum pressure		70 psig	70 psig	NA	NA
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		1,060 gph	1,060 gph	1,060 gph	1,060 gph
HEATING SURFACE		473 sq.ft.	610 sq.ft.	473 sq.ft.	610 sq.ft.
EXHAUST STACK CONNECTION, o.d.		18 in.	18 in.	18 in.	18 in.
APPROXIMATE OVERALL DIMENSIONS					
length		114 in.	114 in.	140 in.	140 in.
width		93 in.	93 in.	113 in.	113 in.
height		102 in.	121 in.	107 in.	124 in.
WEIGHT					
installed - wet		8,427 lbs	9,641 lbs	8,627 lbs	9,841 lbs
shipping		7,410 lbs	8,390 lbs	7,610 lbs	8,590 lbs
FW pump skid		1,050 lbs	1,050 lbs	1,050 lbs	1,050 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 - 1/3 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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World Leaders in Precision Steam Generators, Fluid Heaters, Heat Recovery Systems and Customer Service