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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 E804 STEAM GENERATOR 800 BHP





SPECIFICATIONS

| MODEL E804 | | | | | | | MODEL SEG804-FMB | | |
|--|-----------|-----------------|-----------------------|-----------------|---------------------|------------------------|----------------------|---|--|
| | MODE | L E804 | MODEL SE804 | | MODEL EG804-FMB | | with Low NOx Burner | | |
| | Stan | dard | with Super Economizer | | with Low NOx Burner | | and Super Economizer | | |
| BOILER HORSEPOWER | 80 | 800 | | 800 | | 800 | | 800 | |
| HEAT INPUT, BTU/hr Oil | 32,26 | 32,265,060 | | 31,139,535 | | NA | | NA | |
| Ga | s 32,658 | 32,658,537 | | 31,505,882 | | 33,061,728 | | 31,505,882 | |
| NET HEAT OUTPUT, BTU/hr | 26,780 | 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 - 45 | 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) | |] | | J | | | | | |
| GAS CONSUMPTION . | 32,65 | 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 Tu | 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 F | ump 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 5 |) | | | | | • | · ' | 1 | |
| design pressure 15-300 psig | 19 | 194 | | 194 | | 239 | | 239 | |
| design pressure 301-500 psig | 20 | 207 | | 207 | | 252 | | 252 | |
| GAS SUPPLY PRESSURE REQUIRED | 5 to 10 | 5 to 10 psig | | 5 to 10 psig | | 5 to 10 psig | | 5 to 10 psig | |
| ATOMIZING AIR REQUIRED (see note 6) | | | | | • | _ | | | |
| Capacity | 30 s | 30 scfm | | 30 scfm | | N/A | | N/A | |
| Minimum pressure | 70 p | 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 | 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 CONNECTION, o.d. | 36 | 36 in. | | 36 in. | | 36 in. | | 36 in. | |
| APPROXIMATE OVERALL DIMENSIONS | | | | | | | | | |
| length | 151 | 151 in. | | 151 in. | | 160 in. | | 160 in. | |
| width | 174 | 174 in. | | 174 in. | | 174 in. | | 174 in. | |
| height | 198 | 198 in. | | 224 in. | | 198 in. | | 224 in. | |
| WEIGHT | | | | | | | | | |
| installed - wet | 28,53 | 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 | 3,200 | 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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