

TECHNICAL SPECIFICATIONS

CLAYTON STEAM GENERATORS

SAVES FUEL

The unique counter flow design provides higher fuel-to-steam efficiency than traditional boilers.

SAFE

The Clayton design eliminates any possibility of a steam explosion.

RAPID RESPONSE

The Clayton design responds rapidly to sudden or fluctuating load demands.

FAST START

Cold start within five to ten minutes, without thermal stress.

COMPACT AND LIGHTWEIGHT

The Clayton design typically occupies one third of the floor space and is 75% lighter than a traditional boiler.

HIGH QUALITY STEAM

Clayton provides a 99.5% quality steam separator to minimize moisture and carryover.

FUEL VERSATILITY

Natural gas, propane, biofuels, light oil, and heavy oiler burners available singularly or in combination.

ADVANCED CONTROLS

Most units are equipped with a Programmable Logic Controller (PLC) and reliable operation.

LOW NO_x

Comes standard with Ultra Low NO_x Burner.

FACTORY SERVICE

Expert service is available 24 hours a day direct from factory in the U.S., Canada, Mexico, Europe and Asia; and worldwide through our service distributors.

CSM-15

15 BHP - ULTRA LOW NOX



CLAYTON E-SERIES

Clayton
SigmaFire™

 **Clayton**
INNOVATIVE STEAM SOLUTIONS

TECHNICAL SPECIFICATIONS

Advanced Steam Boiler Technology That Is Safe, Efficient, and Reliable

MODEL CSM15	MODEL CSM-15 Standard	MODEL CSM-15 with Super Economizer
BOILER HORSEPOWER	15	15
HEAT INPUT, BTU/hr	619,907	590,735
NET HEAT OUTPUT BTU/hr	502,125	502,125
EQUIVALENT Output (from and at 212°F feedwater and 0 PSIG steam)	518 lbs/hr	518 lbs/hr
DESIGN PRESSURE (see note 1)	150 psig	150 psig
STEAM OPERATING PRESSURE	65-125 psig	65-125 psig
GAS CONSUMPTION at maximum steam output (see note 2)	620 cfh	591 cfh
BURNER CONTROLS modulating (gas)	4 to 1 Turndown	4 to 1 Turndown
EFFICIENCY gas-fired efficiency %	81%	85%
ELECTRIC MOTORS, HP design pressure 150 psig	Blower Pump 0.67 0.75	Blower Pump 0.67 0.75
ELECTRIC FLA, based on 230 V (see note 3)	10	10
GAS SUPPLY PRESSURE REQUIRED	2 psig	2 psig
WATER SUPPLY REQUIRED	79 gph	79 gph
HEATING SURFACE	78.6 sq.ft.	110.9 sq.ft.
EXHAUST STACK CONNECTION, o.d.	8 in.	8 in.
APPROXIMATE OVERALL DIMESNIONS		
length	66 in.	66 in.
width	50 in.	50 in.
height	83 in.	83 in.
WEIGHT		
installed - wet	2,502 lbs	2,689 lbs
shipping	2,424 lbs	2,601 lbs

- 1) Design Pressure currently limited to 150 psig
- 2) Based on Natural Gas with a High Heat Value (HHV) of BTU/FT.³
- 3) Continuous running. 230Vac/1/60Hz power supply required.

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The description and specifications shown were in effect at the time this publication was approved for printing. Clayton Industries' policy is one of continuous improvement and Clayton reserves the right to discontinue models at any time and/or change specifications or design without notice and without incurring obligation.

