

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 NOx

Comes standard with Ultra Low NOx 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-30

30 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 CSM30	MODEL CSM-30 Standard	MODEL CSM-30 with Super Economizer
BOILER HORSEPOWER	30	30
HEAT INPUT, BTU/hr	1,239,815	1,181,471
NET HEAT OUTPUT BTU/hr	1,004,250	1,004,250
EQUIVALENT Output (from and at 212°F feedwater and 0 PSIG steam)	1,035 lbs/hr	1,035 lbs/hr
DESIGN PRESSURE (see note 1)	150 psig	150 psig
STEAM OPERATING PRESSURE	65-125 psig	65-125 psig
GAS CONSUMPTION	1,240 cfh	1,182 cfh
at maximum steam output (see note 2)		
BURNER CONTROLS		
modulating (gas)	4 to 1 Turndown	4 to 1 Turndown
EFFICIENCY		
gas-fired efficiency %	81%	85%
ELECTRIC MOTORS, HP	Blower Pump	Blower Pump
design pressure 150 psig	1.25 0.75	1.25 0.75
ELECTRIC FLA, based on 230 V (see note3)	11	11
GAS SUPPLY PRESSURE REQUIRED	2 psig	2 psig
WATER SUPPLY REQUIRED	158 gph	158 gph
HEATING SURFACE	141 sq.ft.	199.1 sq.ft.
EXHAUST STACK CONNECTION, o.d.	10 in.	10 in.
APPROXIMATE OVERALL DIMENSIONS		
length	77 in.	77 in.
width	56 in.	56 in.
height	93 in.	93 in.
WEIGHT		
installed - wet	3,328 lbs	3,548 lbs
shipping	3,152 lbs	3,350 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.

17477 Hurley Street • City of Industry, CA, USA, 91744

Phone: 1 (800) 423-4595 Fax: (626) 435-0180

www.claytonindustries.com • info@claytonindustries.com

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Atlanta • Boston • Chicago • Cincinnati • Cleveland • Dallas • Detroit • Kansas City

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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.

