

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-45

45 BHP - ULTRA LOW NOX



CLAYTON
STEAM MASTER

Clayton
SigmaFire™

CLAYTON E-SERIES

 **Clayton**
INNOVATIVE STEAM SOLUTIONS

TECHNICAL SPECIFICATIONS

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

MODEL CSM45	MODEL CSM-45 Standard	MODEL CSM-45 with Super Economizer
BOILER HORSEPOWER	45	45
HEAT INPUT, BTU/hr	1,653,086	1,575,294
NET HEAT OUTPUT BTU/hr	1,506,375	1,506,375
EQUIVALENT Output (from and at 212°F feedwater and 0 PSIG steam)	1,553 lbs/hr	1,553 lbs/hr
DESIGN PRESSURE (see note 1)	150 psig	150 psig
STEAM OPERATING PRESSURE	65-125 psig	65-125 psig
GAS CONSUMPTION	1,859 cfh	1,772 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	1.5 1.5	1.5 1.5
ELECTRIC FLA, based on 230 V (see note 3)	15	15
GAS SUPPLY PRESSURE REQUIRED	2 psig	2 psig
WATER SUPPLY REQUIRED	211 gph	211 gph
HEATING SURFACE	152.8 sq.ft.	228.2 sq.ft.
EXHAUST STACK CONNECTION, o.d.	10 in.	10 in.
APPROXIMATE OVERALL DIMESNIONS		
length	72 in.	72 in.
width	56 in.	53 in.
height	97 in.	97 in.
WEIGHT		
installed - wet	3,567 lbs	3,791 lbs
shipping	3,350 lbs	3,593 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.

