

### **Fuel-Fired Vertical Tubeless Boilers**

Classic, Edge, Tribute and VMP Models From 4 to 150 BHP (138 - 5,021 lbs/hr)



### Fulton: An industry leader since 1949.

#### **OUR HISTORY**

Fulton Boiler Works, Inc. was founded in 1949 by Lewis J. Palm with a revolutionary design for vertical steam boilers. The tubeless boiler gained rapid acceptance as the premier small steam boiler for applications such as baking, sterilizing, and dry-cleaning. Mr. Palm also devoted much of his time developing both domestic and overseas markets. To date, over 100,000 vertical tubeless boilers have been shipped worldwide, with many of the original boilers still in operation.

Six decades after Fulton's start, our founder's values continue to guide our business approach. We constantly strive to improve and expand our capabilities, both in production and customer service. Fulton's continued growth has led to the development of new product lines and manufacturing facilities to meet the needs of a growing customer base.

The Fulton group of companies are still owned and directed by the Palm family. We have developed into a global group of manufacturing entities backed by over 60 years of research, innovation, and experience. Fulton is building on a tradition of success and dedicated to our core purpose of *improving life through heat transfer solutions*.

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Fulton Corporate Offices: Pulaski, New York



#### **GLOBAL CAPABILITIES**

Collectively, the Fulton Companies employ more than 650 people in ten manufacturing facilities on three continents. Both design and manufacturing resources are shared and coordinated around the world: regardless of where your Fulton product comes from, you can count on it being produced at a quality that is second to none.

Fulton UK: Bristol, England

We utilize the best craftsmen worldwide so that we can continue to provide our customers with products and solutions that meet their needs. Our experienced staff is at your service to offer design and engineering assistance, discuss ideas and answer questions about your specific application needs. Industries throughout the world depend on Fulton as the "Single Source" for all their boiler needs, saving them valuable time and money.









Fulton China: Hangzhou, China



### RUGGED, ROBUST AND RELIABLE

Fulton vertical tubeless boilers are hand-built by skilled craftsmen. The impressive workmanship that goes into constructing the pressure vessel is performed by Fulton's ASME certified welders, who average over 20 years of experience.













# THE CLASSIC VERTICAL TUBELESS BOILER

#### **FEATURES**

- · Vertical tubeless 2-pass design
- Top-mounted Fulton burner
- Uniform heat distribution for maximum longevity
- Small footprint compact design
- Built/Certified to ASME, CSD-1 and other applicable codes, UL Packaged Boiler
- · All hand-welded pressure vessel
- Over 100,000 units since 1949
- Simple, reliable and forgiving

#### **DURABLE AND RELIABLE CONSTRUCTION**

Fulton boilers, with the original vertical tubeless down-fired design, have remained a compact trouble-free boiler for over 60 years, supplying steam and hot water to virtually every type of industry imaginable.

Fulton vertical tubeless boilers offer efficiencies up to 80 %, and can be ordered with oil and/or gas capabilities with low emissions burners (gas only). All Fulton boilers are completely trimmed, packaged boilers.

CLASSIC BOILER	INPUT FT3/HR	STEAM OUTPUT	WATER CONTENT	OPERATING WEIGHT
4	168	138 lbs/hr	14 gal	1,520 lbs
6	252	207 lbs/hr	16 gal	1,835 lbs
9.5	398	328 lbs/hr	16 gal	2,035 lbs
10	419	345 lbs/hr	24 gal	2,200 lbs
15	628	518 lbs/hr	39 gal	2,605 lbs
20	837	690 lbs/hr	77 gal	4,045 lbs
25	1,047	863 lbs/hr	82 gal	4,190 lbs
30	1,256	1,035 lbs/hr	170 gal	6,200 lbs
50	2,093	1,725 lbs/hr	245 gal	8,570 lbs
60	2,511	2,070 lbs/hr	270 gal	9,535 lbs

#### **ROBUST PRESSURE VESSEL**

Fulton unique features begin with simplicity. The furnace (pressure vessel) is simply a pipe within a pipe. The top mounted burner sends a spinning cyclonic flame down the center furnace chamber and back up the outside of the pressure vessel. The result is even heating and a durable, forgiving design.





# THE EDGE VERTICAL TUBELESS BOILER

#### **FEATURES**

- Same vertical tubeless 2-pass design as our Classic boiler
- Additional Flue Gas Enhancing System to maximize efficiency
- Top mounted burner for even heat distribution
- Small footprint compact design
- Built/Certified to ASME, CSD-1 and other applicable codes, UL Packaged Boiler
- All hand-welded pressure vessel
- Stainless steel jacket

#### **DURABLE AND RELIABLE CONSTRUCTION**

All of the time-proven benefits and design features of the Classic Vertical Tubeless Boiler have been maintained in the Edge, but with the added value of the Fulton Engineered Flue Gas Enhancing System (FGE) to cut your fuel bills substantially.

Using added heat transfer surface area, the high-velocity flue gases travel over a cylindrical grid of heat convection fins, transferring additional heat evenly to the water in the vessel. This creates increased efficiency up to 84% while still maintaining a rugged pressure vessel design.

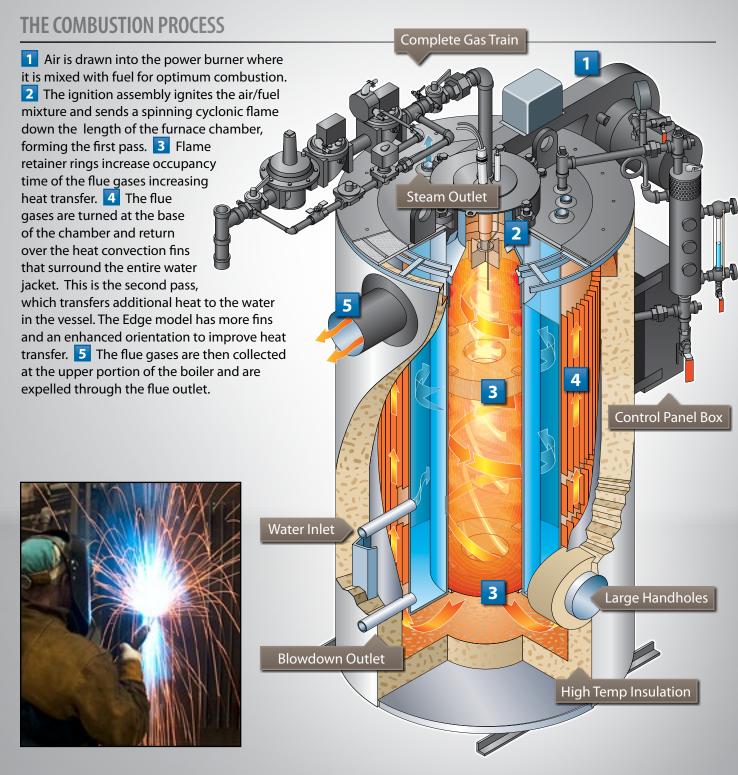
EDGE BOILER	INPUT FT3/HR	STEAM OUTPUT	WATER CONTENT	OPERATING WEIGHT
6	242	207 lbs/hr	16 gal	1,833 lbs
9.5	384	328 lbs/hr	16 gal	2,035 lbs
10	403	345 lbs/hr	24 gal	2,200 lbs
15	606	518 lbs/hr	39 gal	2,605 lbs
20	807	690 lbs/hr	77 gal	4,045 lbs
30	1,210	1,035 lbs/hr	170 gal	6,200 lbs

An available option is Fulton's low emissions burner. Our Research & Development team has developed burners for each model to meet or exceed the most stringent emissions requirements. This option is available on the Classic, Edge, and VMP models.





## ALOOK INSIDE THE CLASSIC AND EDGE



#### **ANCILLARY EQUIPMENT**

A steam boiler is just one part of a well-designed steam system. Proper delivery of feedwater and collection of condensate are essential to the operation of a steam system. Fulton is able to manufacture standard or custom vessels to perform these tasks to ASME code or non-code, depending on the requirements in your area or system. Our auxiliary equipment is used to control the quality, pressure, storage capacity and enthalpy (heat content or temperature) of steam. The quality of the water used in a steam boiler will affect its life. Water treatment equipment will help provide quality feedwater so that corrosion and deposition in the boiler will be minimized. Fulton engineers can match equipment to just about any



#### **ENGINEERED SYSTEMS**

As demand for creative solutions to complex heat transfer applications grows, Fulton has excelled in the design and fabrication of customized skid systems. With more than three decades of experience in designing and building skid systems, Fulton has become a single source manufacturer for custom pre-piped heat transfer equipment and accessories.

- Turnkey
- Plug and Play
- Single point manufacturing
- Flexible designs 1.5HP to 900 BHP
- Over 2,000 skids installed around the globe





The Fulton Companies

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