Fulton®

VSRT™

VERTICAL SPIRAL RIB TUBELESS STEAM BOILERS

250 BHP

Celebrating 70 YEARS Fulton

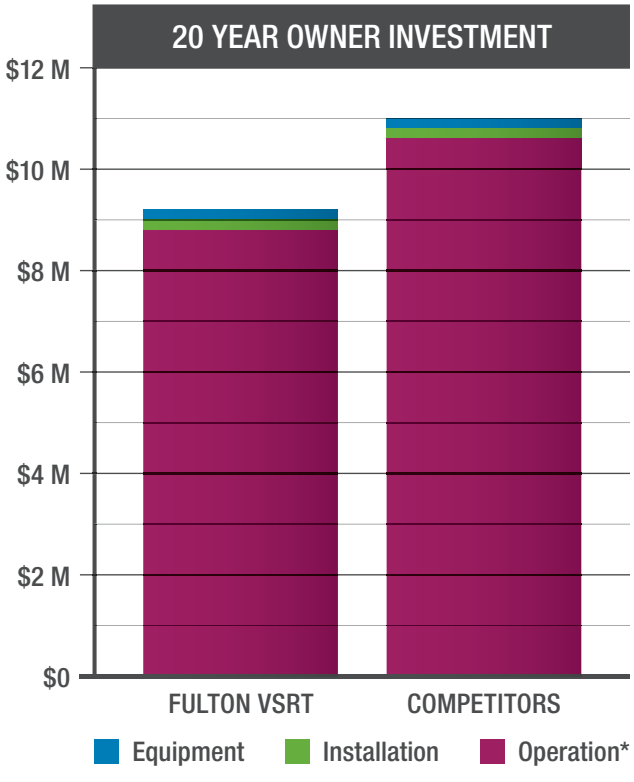
SETTING THE STANDARD AGAIN

Fulton is one of the world's largest boiler manufacturers with +70 years of experience and more than 100,000 boilers installed. Continuing this tradition of success, our dedicated R&D team has developed the VSRT steam boiler to be the new standard for heavy-duty industrial applications.

Featuring rapid steaming, minimal maintenance, and an unmatched warranty, VSRT boilers will provide efficient and reliable steam for years to come.

LOWEST COST OF OWNERSHIP

Over a 20 year span, the majority of owner investment is spent on operational costs such as fuel and maintenance. The VSRT features highest efficiency and longest boiler life expectancy in the world to bring you the lowest total cost of owernship possible.



* *Operating cost estimate based on VSRT versus legacy boiler designs in service efficiencies, $9/MCF natural gas, 6 days a week, 50 weeks a year, and other typical operating assumptions.*

INDUSTRY LEADING EFFICIENCIES

Reduce utility costs by up to 20%

- 86% thermal efficiency without economizer
- 99.75% verified steam quality
- 10:1 turndown with linkageless controls and VFD
- O_2 compensation standard
- 20 ppm Low NOx burner standard; optional 9 ppm

EASE OF OPERATION

Rapid steaming and precise load tracking

- Rapid steaming without warmup
- Easily responds to rapidly changing steam loads
- User-friendly touchscreen controls
- Integrated Lead/Lag and trending functionality
- Fully wetted pressure vessel

EASE OF INSTALLATION

Low capital cost of installation by design

- Half the installation footprint of competing designs
- 14" Cat. I flue configurable for side or top
- Fully operational with only 14" wc gas pressure
- No Flue Gas Recirculation (FGR) required
- No external ASME steam piping required

RUGGED AND RELIABLE DESIGN

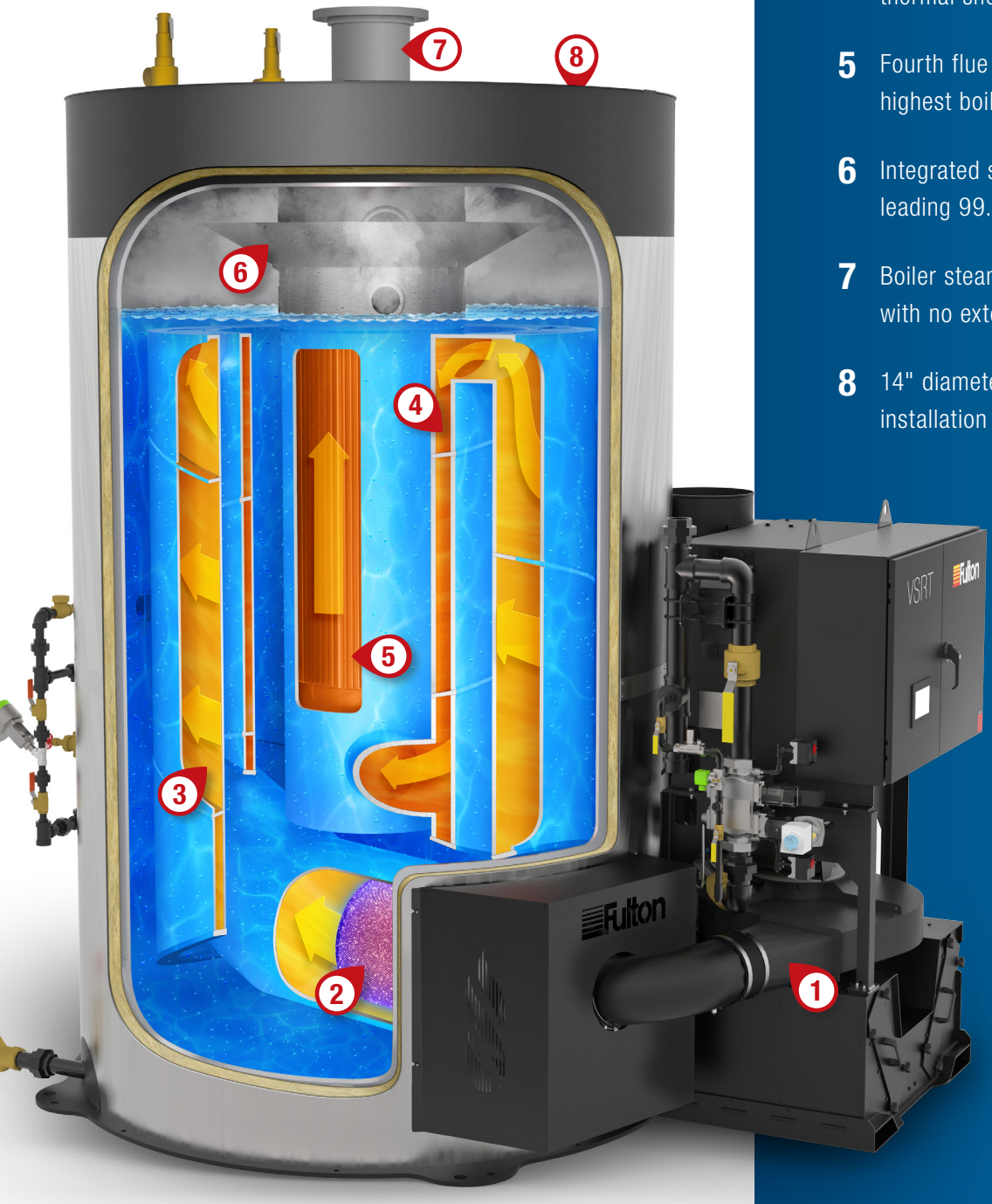
Longest Boiler Life Expectancy

- 3⁄8" minimum steel thickness maximizes longevity
- Self compensating design eliminates thermal shock
- Minimal water chemistry requirements
- Minimal maintenance design with zero refractory
- 10 Year Pressure Vessel / 5 Year Burner Warranty

A LOOK INSIDE

The VSRT boiler, burner, and controls were designed to provide the longest boiler life expectancy available with the lowest fuel and maintenance costs.

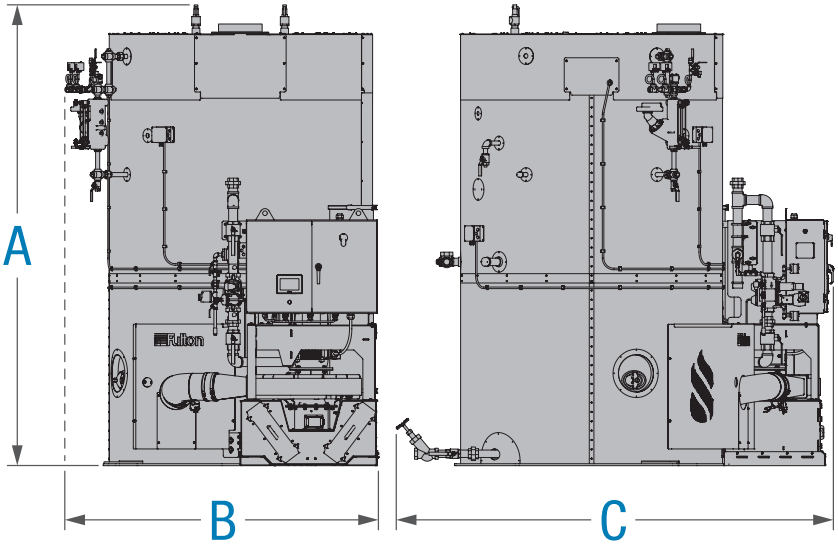
- Optimal water volume for precise load tracking and steam on demand
- Floating, self-compensating heat exchanger eliminates thermal shock
- Vertical 3⁄8" steel design reduces oxygen corrosion



1. Sub 20ppm low NOx, 10:1 turndown burner VFD motor, O2 compensation, and linkageless controls provide maximum efficiencies at all operating loads
2. Generously sized, heavy-duty furnace with integrally designed burner head.
3. Second flue gas passage through a 3⁄8" steel spiral heat exchanger.
4. Third flue gas passage through floating heat exchanger, eliminating the risk of thermal shock
5. Fourth flue gas passage provides the highest boiler efficiency in the industry
6. Integrated steam baffle provides industry leading 99.75% pure steam
7. Boiler steam nozzle supplies dry steam with no external ASME piping required
8. 14" diameter Cat. I flue outlet minimizes installation costs

20 PATENTS PENDING

SPECIFICATIONS & DIMENSIONS



MODEL: VSRT™		250
SPECIFICATIONS		
Fuel Input	MBH	9,800
Steam Output, F&A 212°F	LB/HR	8,625
Output	MBH	8,333
Water Capacity	GAL	1,663
DIMENSIONS		
(A) Height w/ Trim	IN	147.75
(B) Width w/ Trim	IN	100.5
(C) Depth	IN	133.25
Steam Outlet (150 psi, NPT)	IN	6
Safety Valve Outlet (150psi, NPT)	IN	1.5 x 2
Gas Train Inlet	IN	2.5
Flue Outlet	IN	14
WEIGHTS		
Approximate Shipping Weight	LB	23,600
Approximate Operating Weight	LB	34,894
Approximate Flooded Weight	LB	37,513

NOTE: Specifications and dimensions are approximate and for reference purposes only. Fulton reserves the right to change specifications and/or dimensions without notice. Graphics contained in this brochure may not be representative of actual product.

For more information on the VSRT-250 product line, please visit: ***www.fulton.com/vsrt250***

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Printed in the U.S.A.
VSRT-250_BRO_2019-0605

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