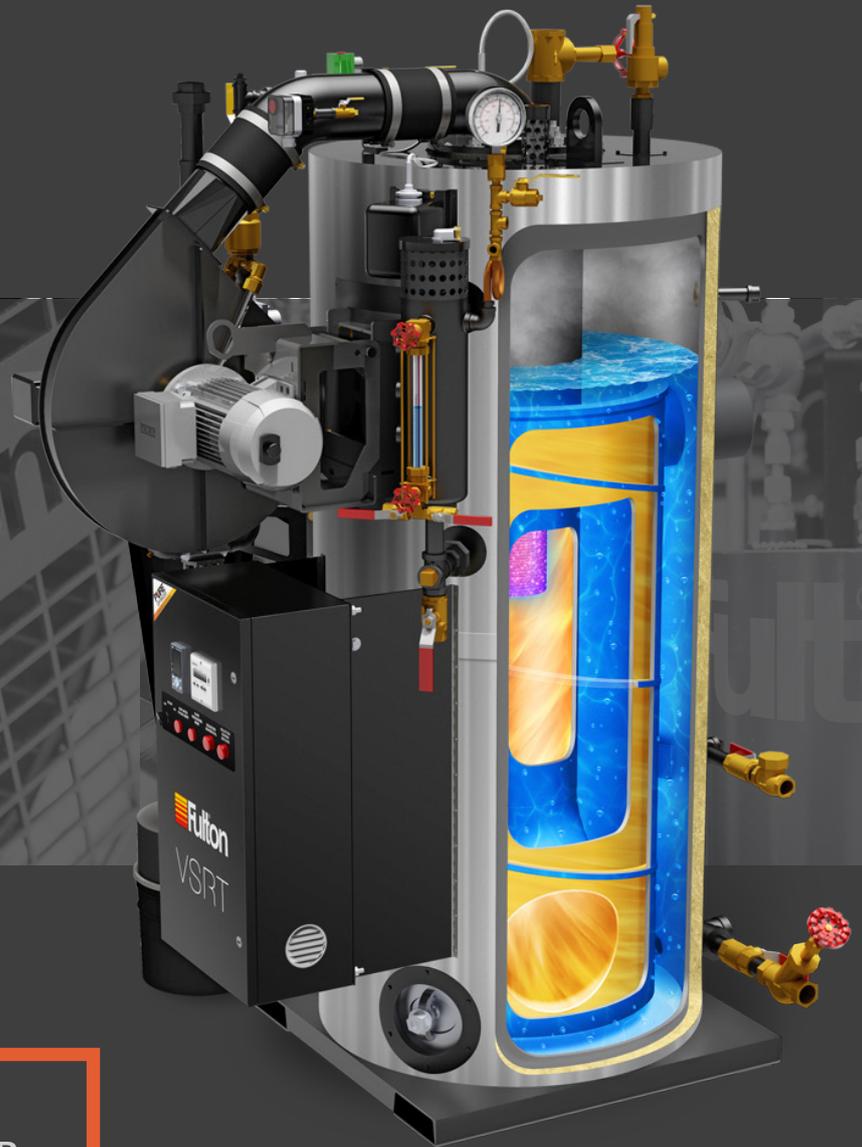




Improving life through heat transfer solutions



## VSRT™

### VERTICAL SPIRAL RIB TUBELESS STEAM BOILER

With outputs from 160 to 960 kg/h, the VSRT features Fulton's patent pending spiral rib heat exchanger and achieves industry-leading heat transfer rates.

# WORLD FIRST DESIGN

[www.fulton.co.uk](http://www.fulton.co.uk)

AS THE WORLD'S FIRST AND ONLY SPIRAL RIB TUBELESS DESIGN THE VSRT IS OPTIMISED SO THE HEAT EXCHANGER TRANSFERS THE MAXIMUM AMOUNT OF ENERGY FROM A COMPACT STEAM BOILER.

## PURE TECHNOLOGY

PURE Technology is the culmination of Fulton's clean-slate design approach. Based on comprehensive system optimisation, PURE Technology radically challenges the industry status quo and empowers our engineers to create the best boiler solutions possible, unhindered by previous design philosophies and compromises.

## UNIQUE DESIGN

The multi-award-winning VSRT features a refractory-free, fully-water-backed pressure vessel wrapped with high-density insulation, resulting in minimal thermal losses and low jacket temperatures.

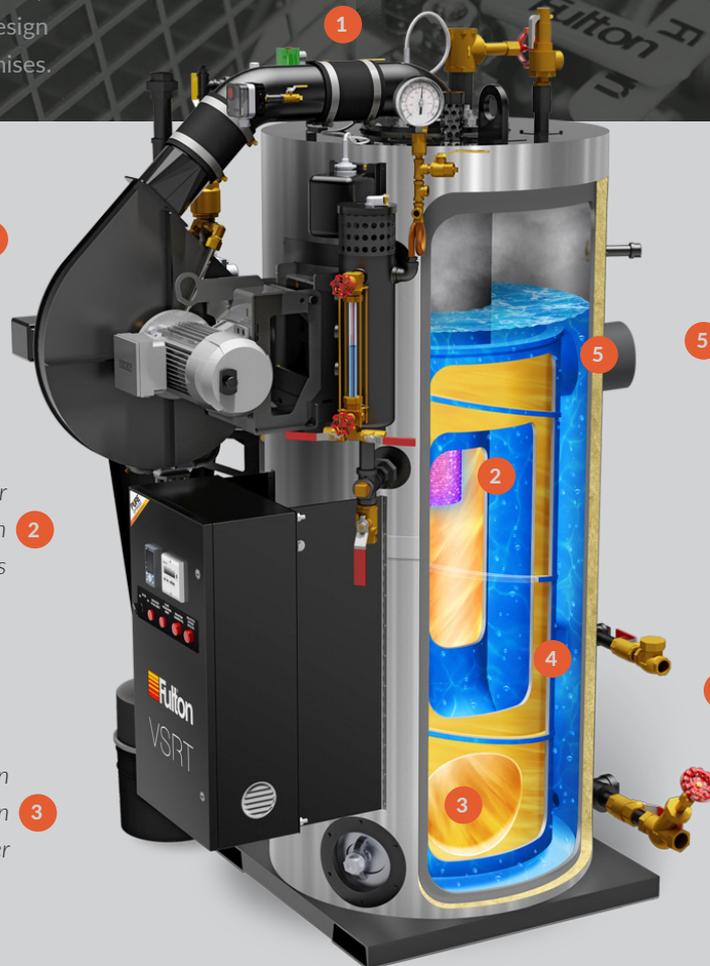
## OPTIONAL EQUIPMENT

Ladder and platforms required for health and safety standards; and specialised controls include high integrity self monitoring water level limiters (complying with HSE, SAFed and BG01) and automatic TDS and main boiler blowdown systems.

Air/fuel mixture enters the combustion chamber **1**

PURE optimised burner features >10:1 turndown with low emissions **2**

Combustion gases transition downward from the combustion chamber into the heat exchanger **3**



Flue gases exit the VSRT steam boiler **5**

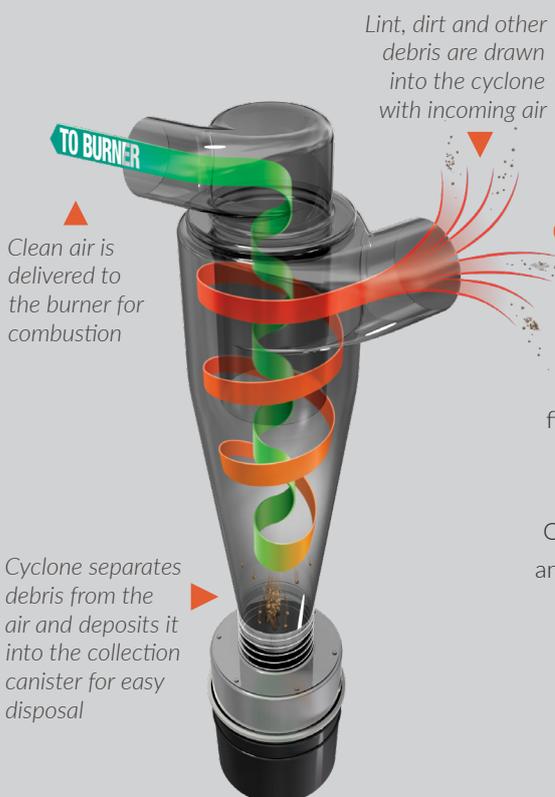
Flue gases spiral upward through the patent pending heat exchanger **4**

# INDUSTRY LEADING

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THE UNIQUE SPIRAL DESIGN OF FULTON'S VSRT STEAM BOILER PROVIDES AN EXTENDED HEAT TRANSFER PATH WHICH IS OPTIMISED TO ACHIEVE MAXIMUM HEAT TRANSFER.

VSRT steam boilers can be skid-mounted and equipped with automatic controls typical of BG01 arrangement level 3 requirements.



## CYCLONIC FILTRATION

Designed to support lower than industry-standard noise levels, Fulton's patent-pending cyclonic air filter effectively clears the combustion air of damaging particles.

Our cyclonic filter won't clog over time and eliminates the need for replacement filters.

## ANCILLARY EQUIPMENT

A steam boiler is just one part of an often complex and well engineered steam system that requires the correct ancillary equipment to ensure process uptime and system longevity.

Optional equipment for the VSRT includes blowdown vessels (designed and manufactured to BS EN 13445 & BG03 compliant), feedwater tanks with optional tank heating, water treatment and chemical dosage systems to BG04.

# FACTS & FIGURES

www.fulton.co.uk

THE SPIRAL RIB HEAT EXCHANGER DESIGN NOT ONLY ALLOWS FULTON TO IMPROVE BOILER EFFICIENCY BUT MAKES THE VSRT ONE OF THE MOST DURABLE STEAM BOILERS AVAILABLE.



### ULTRA-LOW EMISSIONS

Typical ultra-low NOx emissions of <20ppm are achievable thanks to the VSRT's combustion technology, which features a modulating burner and furnace that have been purposely-designed as a single component and fully-matched with the VSRT in mind.



### PERFORMANCE

The VSRT achieves up to 10:1 turndown capabilities and industry-leading performance of up to 82.5% gross thermal efficiency and 99.75% steam quality.

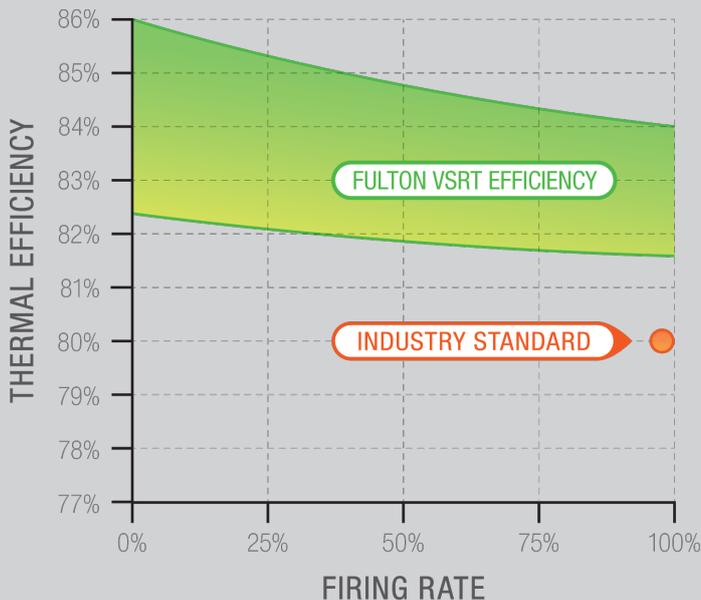
When correctly sized for applications, the exceptionally high turndown will result in savings above and beyond those gained from the stated efficiencies.



### REGULATIONS

The VSRT complies with the City of London Air Quality Strategy and MCPD regulations, is constructed to BS EN 12953 and CE marked to PED.

Its tubeless pressure vessel negates the requirement for costly, regular ultrasonic non-destructive testing and is backed by an industry-leading 10-year guarantee.



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