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**Vertical Fuel-Fired Steam Boilers**  
**60kW - 1500kW**  
**96 kg/h - 2348 kg/h**



- ▶ **J Series**
- ▶ **JFS (Flash Steam)**
- ▶ **VMP (Vertical Multi-Port)**



# J Series



The J Series is designed to meet the steam raising requirements for process steam across a wide range of industrial applications, including pharmaceutical, medical, food and drink. Full steam output available from cold in 20 minutes.

With a robust construction, a simple, compact design and a minimal footprint. The J Series is easy to service and maintain, with good access for cleaning and inspection of internal surfaces.



J Series Top Components

- ▶ 8 Models: 60kW - 600kW
- ▶ 96 kg/h - 960 kg/h (F & A 100°C)

## JFS (Flash Steam)

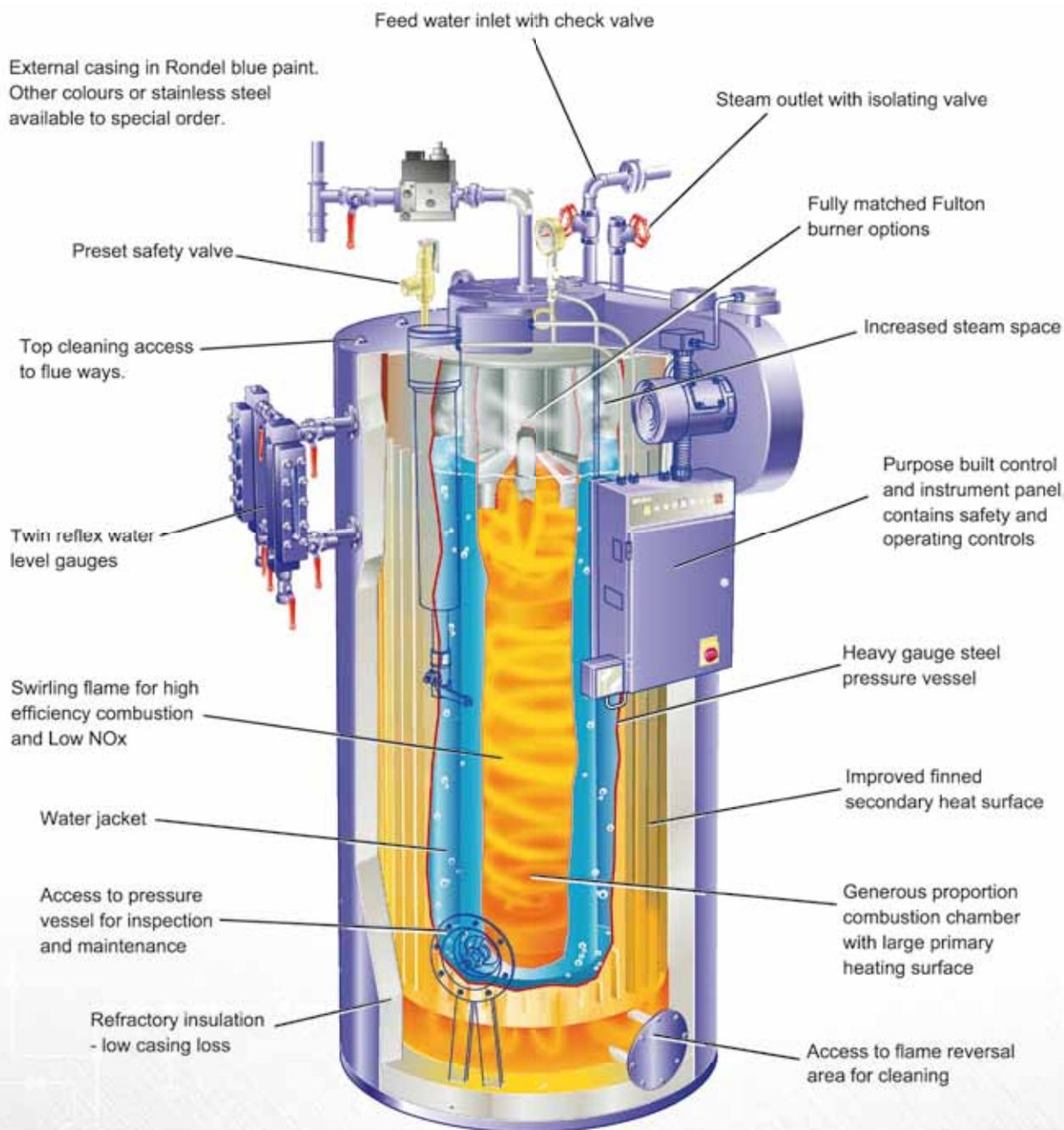
The JFS incorporates a larger heat transfer surface than standard boilers. It therefore meets peak demand for steam over a relatively short period, making it ideal for applications such as sterilisers and autoclaves.

- ▶ Operating Pressure 10.34 barg

- ▶ Low NOx gas burner
- ▶ Fully Modulated Gas Burner Available  
(LPG and Propane burners available)

- ▶ 3 Models: 100kW - 200kW
- ▶ 160 kg/h - 320 kg/h Steady State
- ▶ 300 kg/h - 680 kg/h Peak Demand

- ▶ Five Year Warranty on Pressure Vessel
- ▶ Five Year Warranty on Pressure Vessel



Key features of the J Series Vertical Steam Boiler

- ▶ A top mounted Fulton burner down fires into a vertical chamber which is contained within the pressure vessel.
- ▶ The 'spinning' flame reverses at the base of the chamber and passes through the secondary heating space between the pressure vessel and the external insulating jacket.
- ▶ Vertical fins are welded to the pressure vessel to increase the heat exchange in the secondary flue gas passage.
- ▶ The boiler is fitted with a heavy gauge and insulated mild steel casing with the option of stainless steel available.

# VMP (Vertical Multi-Port)



Within the Fulton VMP, a series of heavy walled large diameter schedule 80 flue pipes are welded to the top and bottom heads in the pressure vessel and these pipes are surrounded by water. The water-backed design speeds up boiler start up time and creates overall even heating throughout. This, along with many other design features of the VMP, result in fuel to steam efficiencies of up to 84%.

- ▶ **400 kW - 1500 kW**
- ▶ **626 kg/h - 2348 kg/h**
- ▶ **Operating Pressure 10.34 barg**
- ▶ **Efficiencies up to 84%**
- ▶ **No Tubes to Replace**
- ▶ **Small Footprint - Compact Design**

## Site and System Requirements

The boiler must be positioned on a load bearing level floor in a well ventilated and dry location. Access must be left around the boiler for service and maintenance purposes. The flue must conform to the Clean Air Act with notification to the Local Authority.

## After Sales Support

In the UK, Fulton engineers provide a nationwide commissioning and after sales service. We strongly recommend that every boiler is commissioned by a Fulton engineer to ensure that the boiler, burner and ancillary equipment are setup to give optimum efficiency and reliability. The commissioning engineer will also instruct the on-site operators in the operation and maintenance of the boiler.

Fulton After Sales can provide annual service contracts covering all aspects of after sales service and inspection.

For boilers sold overseas, Fulton are represented by Approved Distributors who provide the important after sales service. UK based engineers are available to travel worldwide for service support.

For Dimensions and Further Technical Specifications, refer to: T.I. Sheet 117 J Series Dimensions and Specification  
T.I. Sheet 118 JFS Dimensions and Specification

## Warranty

The pressure vessel has a 5 year warranty.



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