



**FB
Gas, Oil and Dual Fuel
Horizontal Steam Boiler
4700 kg/h - 25000 kg/h**



FB



- ▶ **9 Models: 3000kW - 16500kW**
- ▶ **4700 kg/h - 25000 kg/h**
- ▶ **Standard Operating Pressure 10.34 barg**
Up to 20 barg on Request

The FB is a traditional three-pass, wet-back horizontal firetube boiler, with a fully modulating burner. It has the additional option of an economiser.

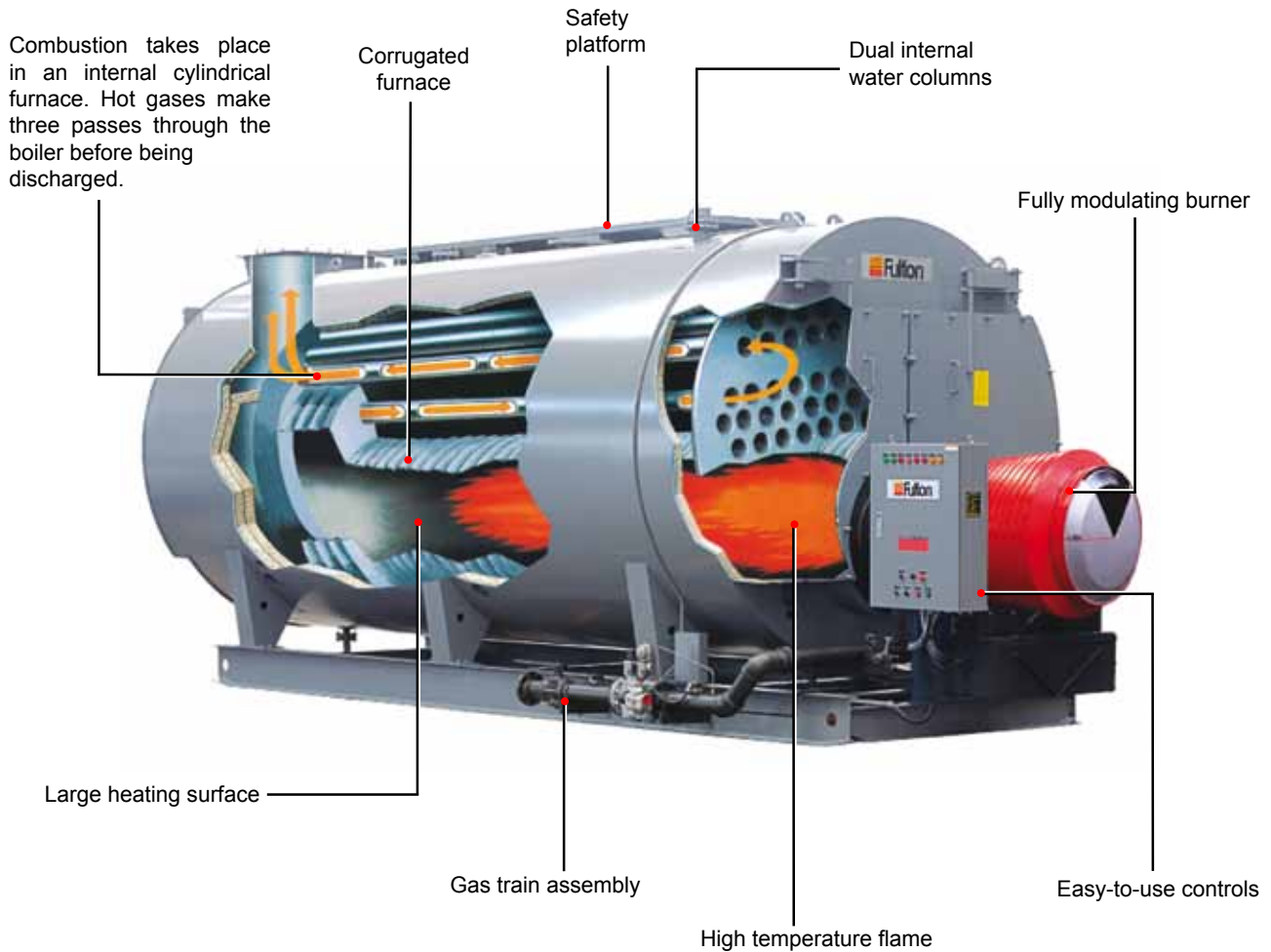
The FB boiler has a liberal steam release area, making it an ideal choice for low pressure steam applications.

It is highly efficient, safe, reliable, long-lasting and easily maintainable.

- ▶ **3-Pass Design with Option of Economiser**
- ▶ **Fully Modulating Gas/Oil/Dual Fuel Burner**
- ▶ **High Efficiency, Easy Operation**
- ▶ **3 Year Warranty on the Pressure Vessel**
(with 5 year option available)



Oil, gas or dual fuel burners



The FB Horizontal Steam Boiler has been designed to give superior performance, long life and low maintenance. There are many unique design features that make it one of the most efficient and durable boilers available:

- ▶ Complete wet back design with high density insulation for very low heat loss.
- ▶ Full modulation precisely matches the firing rate to varying load to minimise the on-off cycling of the burner.
- ▶ Microprocessor based burner control, provides a high level of functional capability beyond those of conventional controls. The controls are capable of performing automatic burner sequencing, system status function, system or self diagnostics and trouble shooting.
- ▶ The large corrugated furnace increases the heat transfer area, reducing heat flux and enhancing boiler efficiency.
- ▶ Corrugation also contributes to the boiler longevity by reducing the thermal stress associated with expansion and contraction. The low located combustion chamber provides an additional safety margin between the furnace and water level.
- ▶ The high steam release area and large water volume, gives very dry steam and has the ability to cope with sudden load changes.
- ▶ Dual internal water columns installed inside the pressure vessel provide accurate water level control and enhances operational safety.

Optional Equipment

Besides the standard controls, selected high quality optional controls are also available.

Ancillary Equipment and Optional Extras

- ▶ Automatic feed water system
- ▶ Condensate return systems.
- ▶ Blowdown separators to EN13445 or PD5500 & H&SE-PM60.
- ▶ Feedwater tanks with optional tank heating.
- ▶ Water treatment and chemical dosage.
- ▶ Automatic TDS boiler blowdown system.
- ▶ Automatic main boiler blowdown system.
- ▶ Ladder and platforms to meet health and safety standards.
- ▶ Packaged turnkey boiler system in purpose built prefabricated plant room or skid mounted.
- ▶ Spare parts kit for 2 and 5 years.
- ▶ Internal or external economisers available.
- ▶ Flue gas temperature interlock
- ▶ Specialised controls:
 - High integrity self monitoring water level limiters, complying with H & SE, BG01.

Boiler Economiser

Fulton designed and manufactured boiler economisers improve boiler efficiency and save energy. They do so by raising the temperature of the feed water meaning less energy is required to raise the steam.

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 129 FB Dimensions & Specification

Warranty

The pressure vessel has a 3 year warranty, with the option for an extended 5 year warranty available.



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