

Electric Steam Boilers

9kW - 1500kW

14 kg/h - 2393 kg/h



- ▶ Mini Compact
- ▶ Midi Compact
- ▶ Dragon
- ▶ CleanSteam
- ▶ E.F.S. (Electric Flash Steam)
- ▶ Electropack
- ▶ Europack
- ▶ FB-L

Mini Compack

The Fulton Mini Compack is the smallest, most compact unit in Fulton's range. It is designed to fit into small spaces, such as under a bench or desk.



Optional Ancillary Equipment Available:

- ▶ Blowdown vessel
- ▶ Feed water tank
- ▶ Water treatment
- ▶ Skid-mounted version

Fulton can supply all electric steam boilers as a factory built skid-mounted package where the boiler, feed water tank, blowdown vessel and water treatment are incorporated onto a skid with all interconnecting mechanical and electrical services.

▶ 4 Models: 9kW - 17.5kW

▶ 14 kg/h - 28 kg/h (F&A 100°C)

▶ Operating Pressure 5.8 barg

▶ Long Life 'Incoloy' Elements

▶ Feed Pump Incorporated

▶ Robust Epoxy/Polyester Coated Finish

▶ Five Year Warranty on Pressure Vessel



Two skid-mounted Mini Compacts



Inside the Mini Compack

Midi Compack

The Fulton Midi Compack is a larger version of the Fulton Mini Compack, but with higher steam outputs.



Optional Ancillary Equipment Available:

- ▶ Blowdown vessel
- ▶ Feed water tank
- ▶ Water treatment
- ▶ Skid-mounted version

▶ 3 Models: 24kW - 48kW

▶ 38 kg/h - 77 kg/h (F&A 100°C)

▶ Operating Pressure 10.34 barg

▶ Long Life 'Incoloy' Elements

▶ Feed Pump Incorporated

▶ Robust Epoxy/Polyester Powder Coated Finish

▶ Five Year Warranty on Pressure Vessel



Side View of the Midi Compack



Inside the Midi Compack

Dragon



The Fulton Dragon is a highly efficient boiler and is designed to meet the requirements of users with a smaller steam demand.

Safety and operating controls are mounted on the front panel, allowing easy access.

Each element can be operated independently, giving the user more control.

Optional Ancillary Equipment Available:

- ▶ Blowdown vessel
- ▶ Feed water tank
- ▶ Water treatment
- ▶ Skid-mounted version

- ▶ 8 Models: 15kW - 72kW
- ▶ 24 kg/h - 115 kg/h (F&A 100°C)
- ▶ Operating Pressure 6.9 barg & 10.34 barg
- ▶ Long Life 'Incoloy' Elements
- ▶ Feed Pump Incorporated
- ▶ Robust Epoxy/Polyester Powder Coated Finish
- ▶ Five Year Warranty on Pressure Vessel



Inside the Dragon

CleanSteam



The CleanSteam combined steam boiler, has a large thermal mass providing flash steam reserve. This enables the boiler to meet fluctuation in steam loads and to meet the short-term peak flow rates of a typical sterilizer cycle. The boiler is designed to reduce entrainment of water droplets to a minimum and, as a result, produce high quality, contaminant-free steam.

▶ **15kW – 200kW**

▶ **24 kg/h - 319 kg/h (F&A 100°C)**

▶ **Operating Pressure 9 barg**

E.F.S.



The Fulton E.F.S. (Electric Flash Steam) is a fully automatic, self-contained steam boiler which incorporates an integrated feed water tank and feed water pump.

The E.F.S. is specifically designed for applications requiring a short duration, high demand, steam supply, such as steam sterilisation processes.

Optional Ancillary Equipment Available:

- ▶ Blowdown vessel
- ▶ Water treatment
- ▶ Skid-mounted version



Inside the E.F.S.

The diagram below illustrates a typical Porous Load Autoclave cycle where flash steam is released during peak load, and where the boiler steam pressure is restored or partially restored, during the cycle.

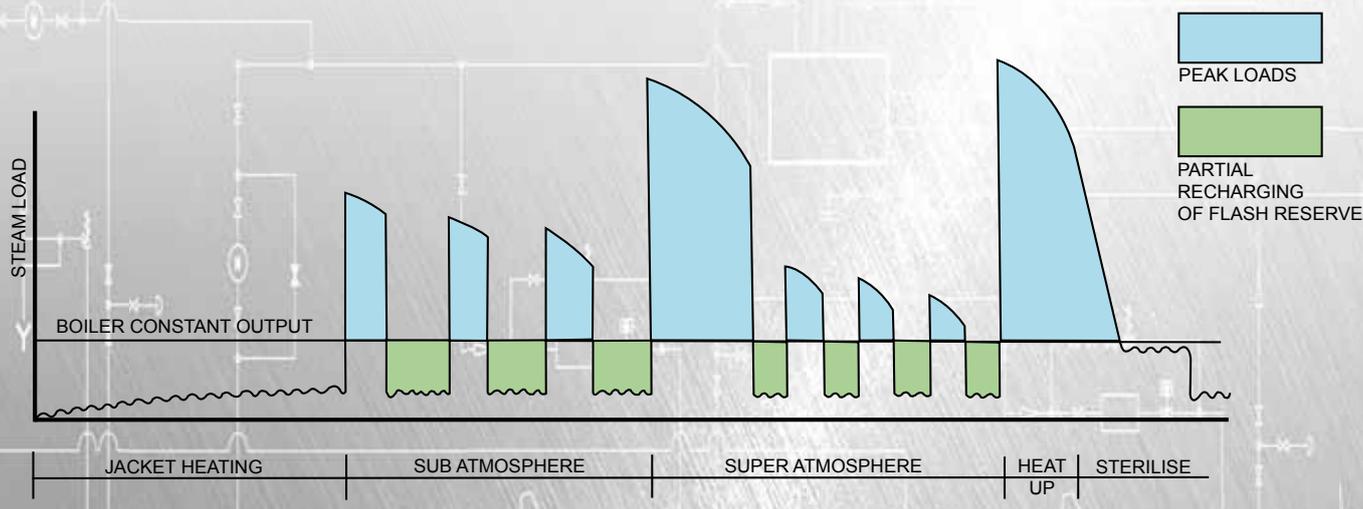
Typically Fulton E.F.S. Boilers are used to service porous load Autoclaves as follows:

- * 9 ft³ (2.74m³) Autoclave = 24kW E.F.S.
- * 14 ft³ (4.27m³) Autoclave = 48kW E.F.S.
- * 21 ft³ (6.40m³) Autoclave = 48kW E.F.S.
- * 28 ft³ (8.53m³) Autoclave = 60kW E.F.S.

* These figures may vary with the Autoclave Application/Manufacture and cycle.

The recovery time to full working pressure at the end of the Autoclave cycle depends upon the kW rating of the E.F.S. boiler and the proportion of flash steam restored during the dwell parts of the cycle.

- ▶ **4 Models: 24kW - 72kW**
- ▶ **38 kg/h - 115 kg/h (F & A 100°C)**
- ▶ **Operating Pressure 10.34 barg**
- ▶ **Integrated Feed Water Tank**
- ▶ **Integrated Feed Water Pump**
- ▶ **Long Life 'Incoloy' Elements**
- ▶ **Five Year Warranty on Pressure Vessel**



Electropack



The Fulton Electropack is self-contained, compact, and designed for ease of use. It is one of the most flexible and mobile boilers in Fulton's range.

Models EP18-EP72 have an integrated feed water tank and feed water pump, all in one compact unit. The EP100 model is supplied with a separate feed water tank.

The Electropack will fit through a standard door opening, allowing it to be used in office and laboratory environments.



Control panel

Optional Ancillary Equipment Available:

- ▶ Blowdown vessel
- ▶ Water treatment
- ▶ Skid-mounted version

- ▶ **7 Models: 18kW - 100kW**
- ▶ **29 kg/h - 160 kg/h (F & A 100°C)**
- ▶ **Operating Pressure 6.9 barg & 10.34 barg**
- ▶ **Integrated Feed Water Tank (EP18-EP72)**
- ▶ **Integrated Feed Water Pump**
- ▶ **Removable Panels for Easy Servicing**
- ▶ **Long Life 'Incoloy' Elements**
- ▶ **Splash Proof Electrical Enclosure and Switches**
- ▶ **Five Year Warranty on Pressure Vessel**



Inside the Electropack

Europack

The Fulton Europack Electric Steam Boiler is a highly efficient unit designed to meet the requirements of the mid-range demand steam user.



Optional Ancillary Equipment Available:

- ▶ Blowdown vessel
- ▶ Feed water tank
- ▶ Water treatment
- ▶ Skid-mounted version



Skid-mounted Europack

Fulton can supply all electric steam boilers as a factory built skid-mounted package where the boiler, feed water tank, blowdown vessel and water treatment are incorporated onto a skid with all interconnecting mechanical and electrical services.

- ▶ **4 Models: 150kW - 300kW**
- ▶ **239 kg/h - 479 kg/h (F&A 100°C)**
- ▶ **Operating Pressure 10.34 barg**
- ▶ **Multi-Element:**
Allows the boiler to perform better with the challenge of fluctuating steam demand.
- ▶ **Five Year Warranty on Pressure Vessel**



Control Facia



Inside the Europack

FB-L



Fulton Electric boilers are extremely efficient because the heating elements are totally immersed in water and the pressure vessel is fully insulated, which results in minimal radiation losses.

The elements can be individually controlled to match the steam load, ensuring stable operating pressures with maximum efficiency.

- ▶ **500kW - 1500kW**
- ▶ **798 kg/h - 2393 kg/h (F&A 100°C)**
- ▶ **Operating Pressure 10.34 barg**
- ▶ **Outstanding Efficiency**
- ▶ **Quiet and Safe Operation**
- ▶ **Zero NOx Emissions**
- ▶ **Five Year Warranty on Pressure Vessel**

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.

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 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.

Warranty

The pressure vessel has a 5 year warranty.



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