

# ST49 Composite Steam Boiler

**Designed and constructed to BS EN 12953, Cochran's ST49 Low NO<sub>x</sub> is a horizontal three pass wet back steam boiler that has been developed to meet the higher operational efficiency and lower emission requirements of the Medium Combustion Plant Directive (MCPD).**

It also complies with the requirements of the Factories Act (1961) and Guidance on Safe Operation of Boilers Ref: BG01 developed by the Safety Assessment Federation (SAFED) and the Combustion Engineering Association (CEA). In addition, the ST49 is UKCA, UKNI+CE or CE marked to meet the requirements of the Pressure Equipment Directive (PED), Low Voltage; Electro-Magnetic Compliance & Machinery Safety Directives. Throughout the manufacturing process, this boiler is subject to inspection by a leading Independent Insurance Company, in addition to Cochran's own ISO 9001-compliant quality procedures.

**Cochran's ST49 composite steam boiler offers the following key features and optional upgrades:**

- UKCA, UKNI+CE or CE marked, horizontal three-pass, wet-back fire side boiler design.
- Each boiler is specifically designed with a heat recovery section offering single or twin stream exhaust gas options.
- Can utilise heat from a variety of sources, such as gas engines, diesel engines, micro turbines and incinerators.
- Bypass damper and flue ductwork arrangement.
- Designed and constructed in accordance with the latest European environmental legislation. BS EN 12953 and MCPD compliant, subject to other plant and equipment within the boilerhouse.
- Normal operating pressure 10 Barg, with options up to 30 Barg.
- Features Cochran's low NO<sub>x</sub> combustion equipment as standard.
- Wide range of combustion and control packages, superheater and economiser options.
- Turndown of up to 7:1.
- Cochran Eclipse or Synergy Touchscreen HMI with Modbus interface and remote access capability.
- Variable speed drives for FD Fan and Feed water pump motors help deliver low noise levels and reduce power consumption.
- Enhanced insulation for lower touch temperature.



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