

ST49 Composite Steam Boiler

Designed and constructed to BS EN 12953, Cochran's ST49 Low NO_x 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 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:

- 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_x 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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