

ST28 Steam Boiler

1000-6000 kg/hour

Developed from the world-renowned and extremely popular Wee Chieftain boiler, the ST28 is a Low NO_x packaged steam boiler that utilises a horizontal three pass wet back design constructed in accordance with BS EN 12953 to provide unrivalled efficiency and reliability. When fitted with compliant Cochran, or equivalent, combustion equipment, the boiler meets the latest European environmental legislation, 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 ST28 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.

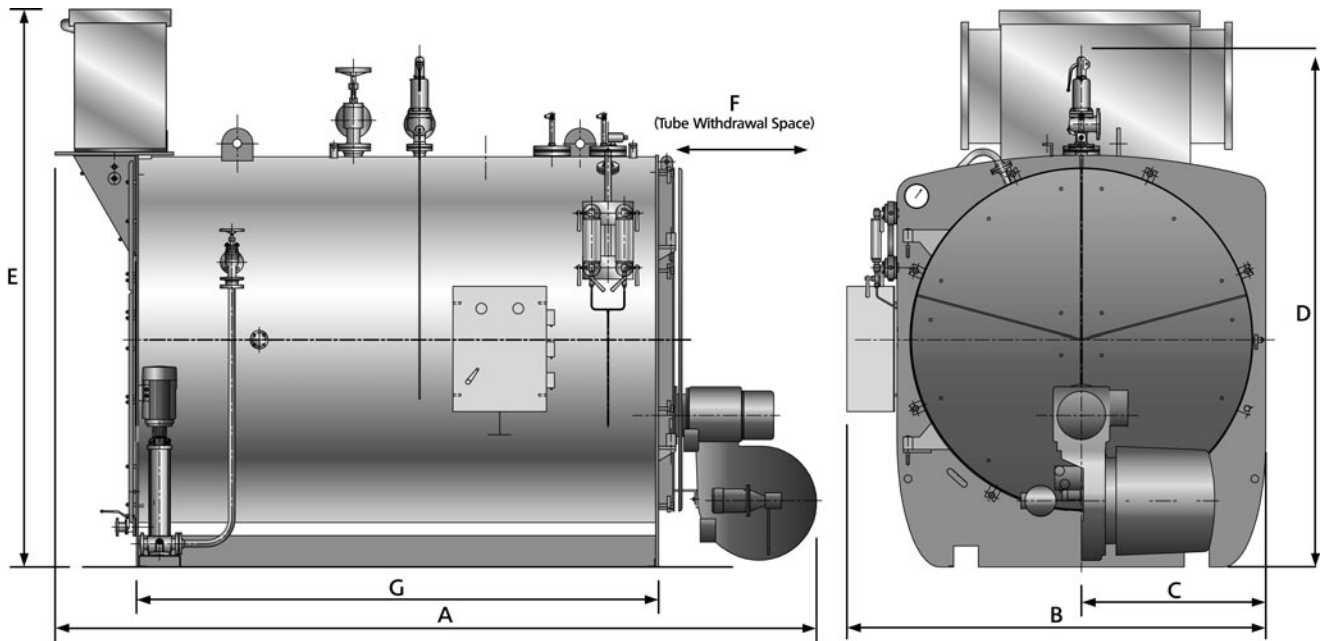
Cochran's ST28 packaged steam boiler offers the following key features and optional upgrades:

- Emissions fully compliant with MCPD.
- Further NO_x reductions achievable with the introduction of flue gas recirculation.
- Output range of 1000 kg/hr to 6000 kg/hr F&A 100°C at a nett efficiency of up to 95% in accordance with EN12953.
- Normal operating pressure 10 Barg, with options up to 30 Barg.
- Fully matched Cochran combustion equipment.
- Wide range of combustion and control packages and economiser options.
- Turndown of up to 6:1.
- 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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| ST28 Boiler Model | | | ST28-1 | ST28-2 | ST28-3 | ST28-4 | ST28-5 | ST28-6 |
|-------------------------|--------|------|--------|--------|--------|--------|--------|--------|
| Rating F&A @100°C | kg/hr | | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 |
| Dimensions | A | mm | 3941 | 4801 | 5374 | 6158 | 6803 | 6731 |
| | B | mm | 1914 | 2650 | 2720 | 2854 | 2854 | 3823 |
| | C | mm | 781 | 1149 | 1184 | 1251 | 1251 | 1347 |
| | D | mm | 2180 | 2976 | 3223 | 3394 | 3394 | 3490 |
| | E | mm | 2314 | 3117 | 3344 | 3575 | 3575 | 3786 |
| | F | mm | 2040 | 2860 | 3580 | 4180 | 4730 | 4650 |
| | G | mm | 2313 | 3133 | 3853 | 4453 | 5003 | 4923 |
| Min Transport Width | mm | 1607 | 2343 | 2413 | 2547 | 2547 | 2739 | |
| Min Transport Height | mm | 1863 | 2655 | 2818 | 2911 | 2911 | 3040 | |
| Rec Chimney Dia | mm | 215 | 300 | 355 | 420 | 454 | 510 | |
| Stop Valve Dia | mm | 50 | 65 | 80 | 100 | 100 | 125 | |
| Safety Valve Size | mm | 25 | 32 | 40 | 50 | 50 | 50 | |
| Safety Valve Outlet Dia | mm | 40 | 50 | 65 | 80 | 80 | 80 | |
| Blowdown Valve Dia | mm | 25 | 25 | 25 | 25 | 25 | 25 | |
| Feed Pump Inlet Dia | mm | 32 | 32 | 32 | 32 | 32 | 40 | |
| Weight Empty | Tonnes | | 5.1 | 9.4 | 12.5 | 16.4 | 17.7 | 20.6 |
| Weight to NWL | Tonnes | | 6.8 | 15.3 | 20.2 | 26.3 | 28.6 | 33.0 |
| Weight Full | Tonnes | | 7.2 | 16.7 | 21.9 | 28.7 | 31.3 | 36.1 |

Note: All Dimensions and weights are approximate only and are based on a boiler working pressure of 10 BarG, other design pressures available.
Table data includes use of an economiser, but no gas bypass.

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