

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 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.

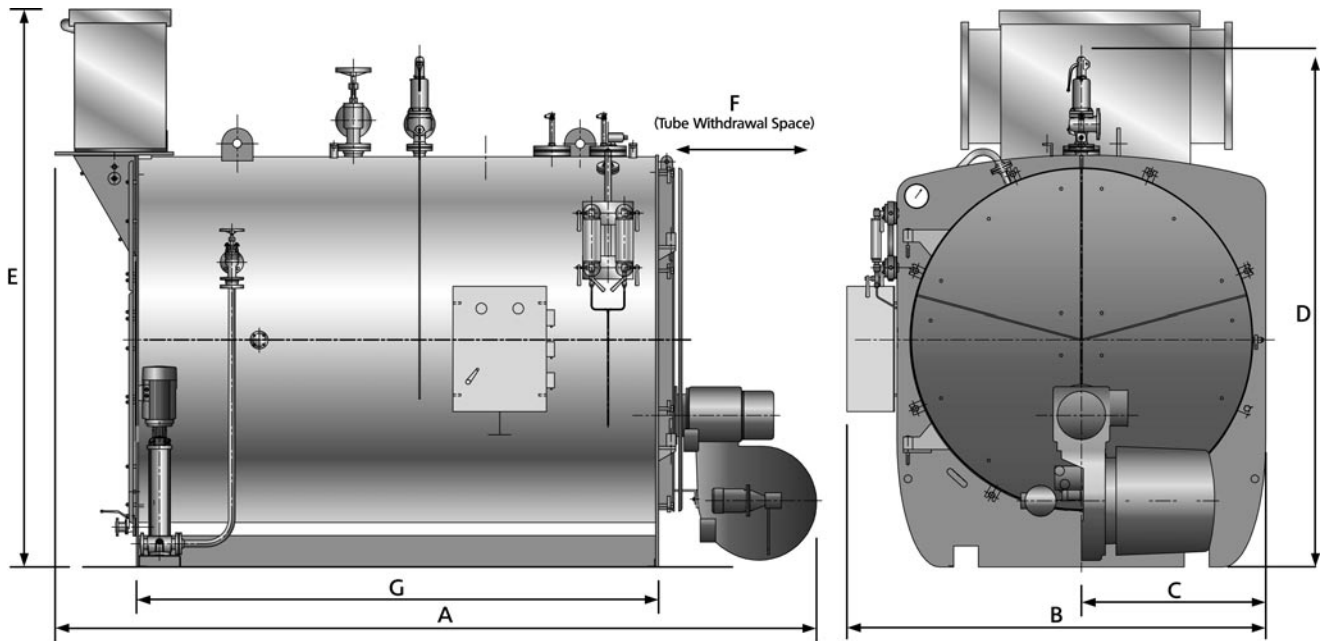
Cochran's ST28 packaged steam boiler offers the following key features and optional upgrades:

- 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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