

# ST25 Steam Boiler

500-6500 kg/hour

**Cochran's ST25 packaged steam boiler has been developed primarily for international markets, but it can also be used in the UK and EU on evaporation rates below 1400 kg/h (1 MW).**

It 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 ST25 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.

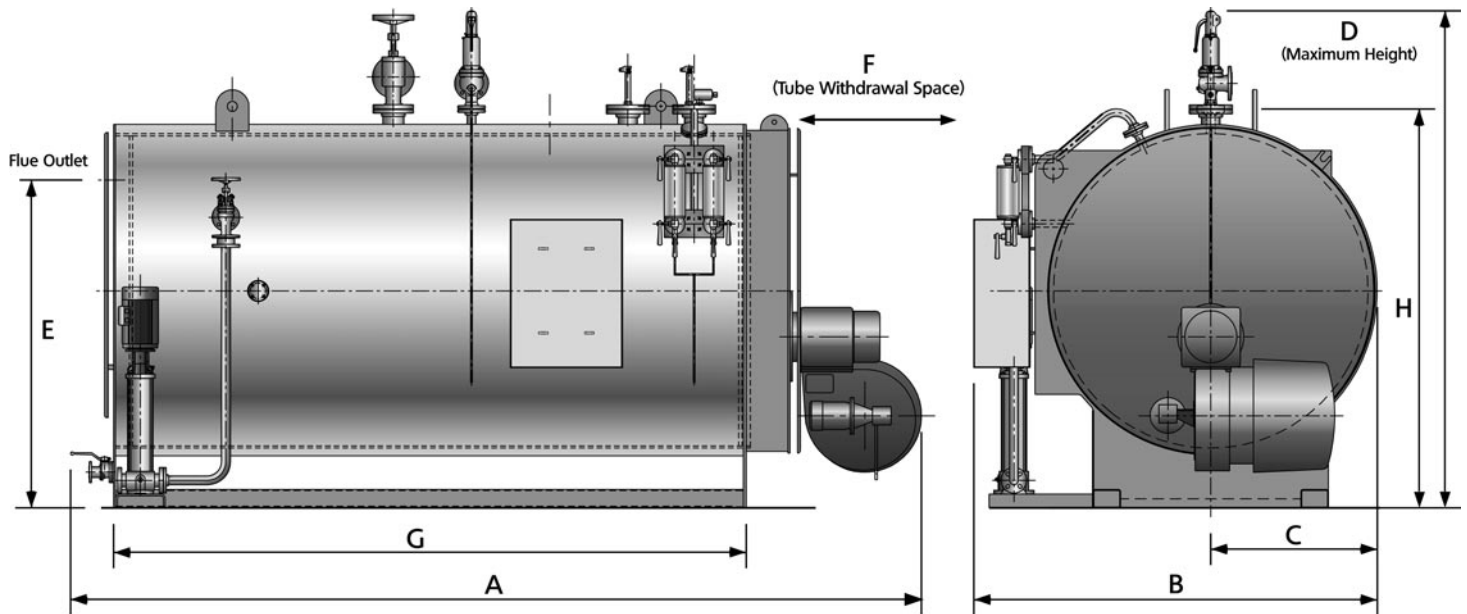
**Cochran's ST25 packaged steam boiler offers the following key features and optional upgrades:**

- Compliant with Factories Act (1961) and Guidance on Safe Operation of Boilers Ref: BG01.
- Compact design results in an economical footprint.
- Output range of 500 kg/hr to 6500 kg/hr F&A 100°C at a nett efficiency of up to 95% in accordance with EN12953.
- Fully matched with Cochran oil, natural gas or dual firing combustion equipment.
- Wide range of combustion and control packages and economiser options.
- Turndown of up to 4:1.
- Variable speed drives for FD Fan and Feed water pump motors help deliver low noise levels and reduce power consumption.



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ST25 Boiler Model			-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12	-13	-14	-15
Evaporation	kW		313	470	627	940	1097	1254	1567	1881	2194	2507	2821	3134	3448	3761	4075
F&A 100°C (212°F)	kg/h		500	750	1000	1500	1750	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500
	lb/h		1102	1653	2205	3307	3859	4410	5512	6615	7717	8820	9922	11025	12127	13230	14332
Dimensions	Oil A	mm	3085	3185	3285	3385	3435	3908	4264	4478	4478	4765	4765	4961	4951	4731	5168
	Gas A	mm	2953	3205	3305	3619	3669	4129	4370	4773	4773	4873	4873	5069	5059	4942	5168
	B	mm	1505	1540	1660	1678	1760	1828	1955	2155	2155	2403	2403	2487	2496	2599	2598
	C	mm	580	615	675	688	725	760	805	905	905	1010	1010	1055	1064	1125	1124
	D	mm	1774	1862	2062	2141	2216	2330	2420	2698	2698	2908	2908	3054	3073	3195	3138
	E	mm	1159	1208	1395	1395	1465	1528	1593	1768	1768	1960	1960	2042	2056	2170	2096
Tube Withdrawal	F	mm	1665	1765	1865	2115	2165	2625	2960	3195	3195	3295	3295	3491	3481	3545	3771
	G	mm	1810	1910	2010	2260	2310	2770	3085	3340	3340	3440	3440	3636	3626	3690	3916
	H	mm	1438	1508	1708	1733	1808	1878	1968	2168	2168	2378	2378	2467	2486	2608	2551
Rec. Chimney Dia.	mm	162	205	230	280	290	305	355	405	405	440	440	455	465	480	515	
Sfy.Valve Exh.Dia.	BSP/mm	32	32	32	40	40	40	50	65	65	65	65	65	80	80	80	80
Strm.Stop Valve Dia.	BSP/mm	40	50	50	65	65	80	80	100	100	100	100	100	125	125	125	125
Blow Down Valve Dia.	mm	25	25	25	25	25	25	25	25	25	25	25	25	25	50	50	50
Feed Water Inlet Dia.	mm	25	25	25	25	25	25	32	32	32	32	32	32	32	32	40	40
Weight - Empty	Tonnes		1.86	2.36	2.77	3.35	3.75	4.47	5.59	7.65	7.65	9.08	9.08	11.77	13.04	15.06	16.62
Weight to NWL	Tonnes		2.64	3.25	3.93	4.61	5.22	6.45	7.96	10.98	10.98	13.28	13.28	18.83	21.51	25.03	27.51
Weight - Full of Water	Tonnes		2.81	3.46	4.20	4.93	5.59	6.94	8.59	11.88	11.88	14.60	14.60	21.03	24.35	28.53	32.18

**Note:** All Dimensions and weights are approximate only and are based on a boiler working pressure of 10 BarG, other design pressures available.

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