

# ST65 Steam Boiler

# 1500-5000 kg/hour

**Cochran's ST65 packaged steam boiler was developed for higher operational efficiencies and lower emissions to meet the requirements of the Medium Combustion Plant Directive (MCPD).**

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 ST65 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.

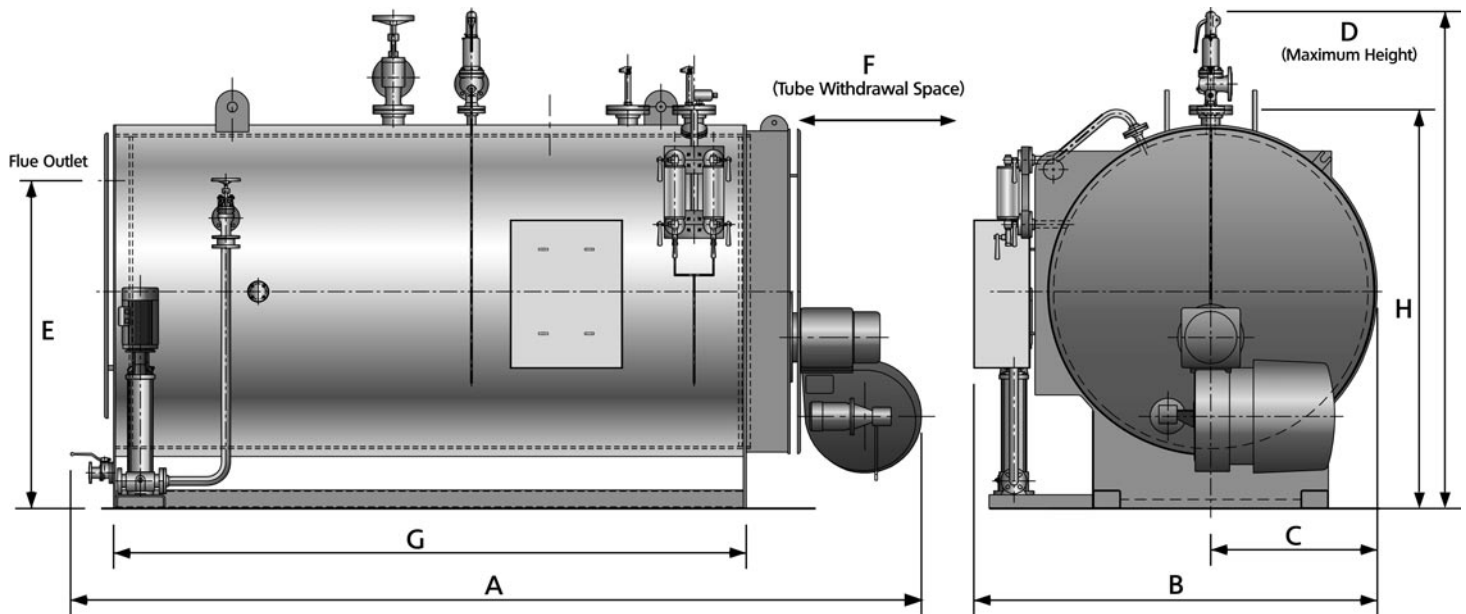
**Cochran's ST65 packaged steam boiler offers the following key features and optional upgrades:**

- The ST65 features a three pass reverse flame boiler design.
- Compact design results in an economical footprint.
- Output range of 1500 kg/hr to 5000 kg/hr F&A 100°C at a nett efficiency of up to 95% in accordance with EN12953.
- Fully matched with oil, natural gas or dual firing combustion equipment.
- Wide range of combustion and control packages and economiser options.
- Turndown of up to 6:1.
- Variable speed drives for FD Fan and Feed water pump motors help deliver low noise levels and reduce power consumption.



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ST65 Boiler Model				ST65-1	ST65-2	ST65-3	ST65-4	ST65-5	ST65-6	ST65-7	ST65-8
Evaporation		kW		940	1254	1567	1881	2194	2507	2821	3134
F&A 100°C (212°F)		kg/h		1500	2000	2500	3000	3500	4000	4500	5000
		lb/h		3308	4410	5513	6615	7718	8820	9923	11025
Dimensions	Oil	A	mm	3435	3908	4264	4478	4765	4765	4961	4731
	Gas	A	mm	3669	4129	4370	4773	4873	4873	5069	4942
		B	mm	1760	1828	1955	2155	2403	2403	2487	2599
		C	mm	725	760	805	905	1010	1010	1055	1125
		D	mm	2216	2330	2420	2698	2908	2908	3054	3195
		E	mm	1465	1528	1593	1768	1960	1960	2042	2170
Tube Withdrawal		F	mm	2165	2625	2960	3195	3295	3295	3491	3545
		G	mm	2310	2770	3085	3340	3440	3440	3636	3690
		H	mm	1808	1878	1968	2168	2378	2378	2467	2608
Rec. Chimney Dia.			mm	280	305	355	405	405	440	440	455
Sfy.Valve Exh.Dia.			BSP/mm	40	40	50	65	65	65	65	80
Strn. Stop Valve Dia.			BSP/mm	65	80	80	100	100	100	100	125
Blow Down Valve Dia.			mm	25	25	25	25	25	25	25	25
Feed Water Inlet Dia.			mm	25	25	32	32	32	32	32	32
Weight - Empty			Tonnes	3.75	4.47	5.59	7.65	9.08	9.08	11.77	15.06
Weight to NWL			Tonnes	5.22	6.45	7.96	10.98	13.28	13.28	18.83	25.03
Weight - Full of Water			Tonnes	5.59	6.94	8.59	11.88	14.60	14.60	21.03	28.53

**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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