

# ST36 Steam Boiler

# 6000-24000 kg/hour

**Cochran's ST36 packaged steam boiler is a horizontal three pass wet back design constructed in accordance with BS EN 12953. This unit combines a smaller footprint with low NO<sub>x</sub> options, whilst maintaining a high efficiency performance.**

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 ST36 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.

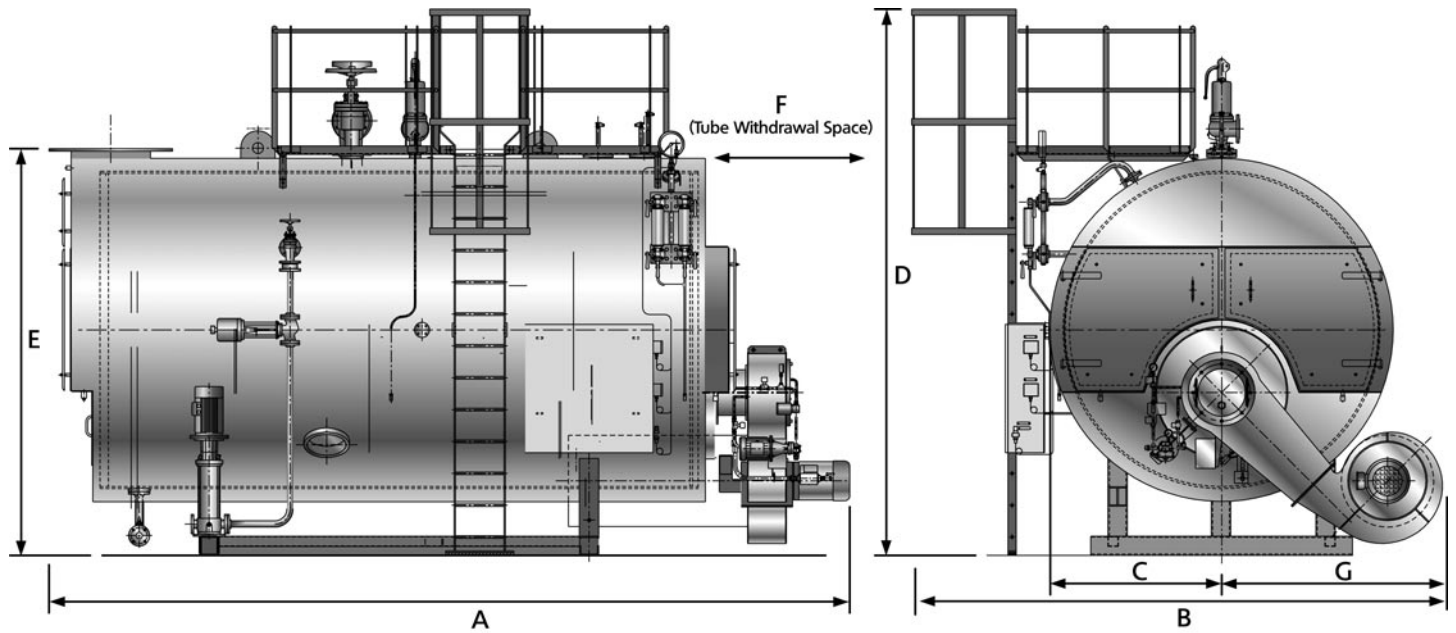
**Cochran's ST36 packaged steam boiler offers the following key features and optional upgrades:**

- Capable of achieving NO<sub>x</sub> emissions of 100 mg/Nm<sup>3</sup> for natural gas firing.
- Compact design results in an economical footprint.
- CE marked, horizontal three-pass, wet-back boiler designed and constructed in accordance with BS EN 12953
- Normal operating pressure 10 Barg, with options up to 30 Barg
- Output range of 6000 kg/hr to 24000 kg/hr F&A 100°C at a nett efficiency of up to 95%.
- 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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ST36 Boiler Model		36-1	36-2	36-3	36-4	36-5	36-6	36-7	36-8	36-9	36-10	36-11	36-12
F&A 100°C (212°F)	kg/h	6000	7000	8000	9000	10000	12000	14000	16000	18000	20000	22500	24000
Dimensions	A mm	5807	6046.5	6317.5	6522.5	6671.5	6863	7318.5	7875	7847	8345	8775	9050
	B mm	3988	4237	4280	4374	4744	4725	4837	5012	5350	5524	5842	5851
	C mm	1245	1336	1351	1402	1484	1539	1651	1727	1897	1897	1970	1970
	D mm	4215	4398	4428	4531	4699	4807	5056	5112	5354	5354	5515	5515
Tube Withdrawal	E mm	2985	3168	3198	3301	3469	3577	3826	3882	4124	4124	4285	4285
	F mm	4180	4350	4550	4740	4890	5040	5400	5750	5760	6210	6510	6760
	G mm	1562	1720	1748	1791	2079	2005	2005	2104	2272	2446	2691	2700
Min. Trans. Width	mm	2558	2740	2770	2872	3036	3146	3370	3522	3862	3862	4008	4008
Min. Trans. Height	mm	3095	3308	3338	3441	3609	3767	4016	4072	4124	4124	4285	4285
Rec. Chimney Dia.	mm	525	560	610	635	660	725	800	865	900	940	1000	1000
Stop Valve Dia.	mm	125	125	150	150	150	200	200	200	200	200	250	250
Safety Valve Size	mm	50	50	65	65	65	65	80	80	80	100	100	100
Safety Valve Outlet Dia.	mm	80	80	100	100	100	100	125	125	125	150	150	150
Blowdown Valve Dia.	mm	50	50	50	50	50	50	50	50	50	50	50	50
Feed Pump Inlet Dia.	mm	40	40	40	40	50	50	50	50	50	50	65	65
Weight Empty	Tonnes	15.6	17.2	17.9	19.6	23.0	25.1	28.6	33.6	42.8	42.9	51.2	52.5
Weight to NWL	Tonnes	25.5	29.3	30.4	33.5	39.6	42.7	50.9	58.6	73.0	75.2	88.0	90.7
Weight Full	Tonnes	27.6	31.8	33.1	36.5	43.2	46.6	56.6	65.3	81.0	83.9	97.8	100.9

**Notes:** All Dimensions and weights are approximate only and are based on a boiler working pressure of 10 Bar G.

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