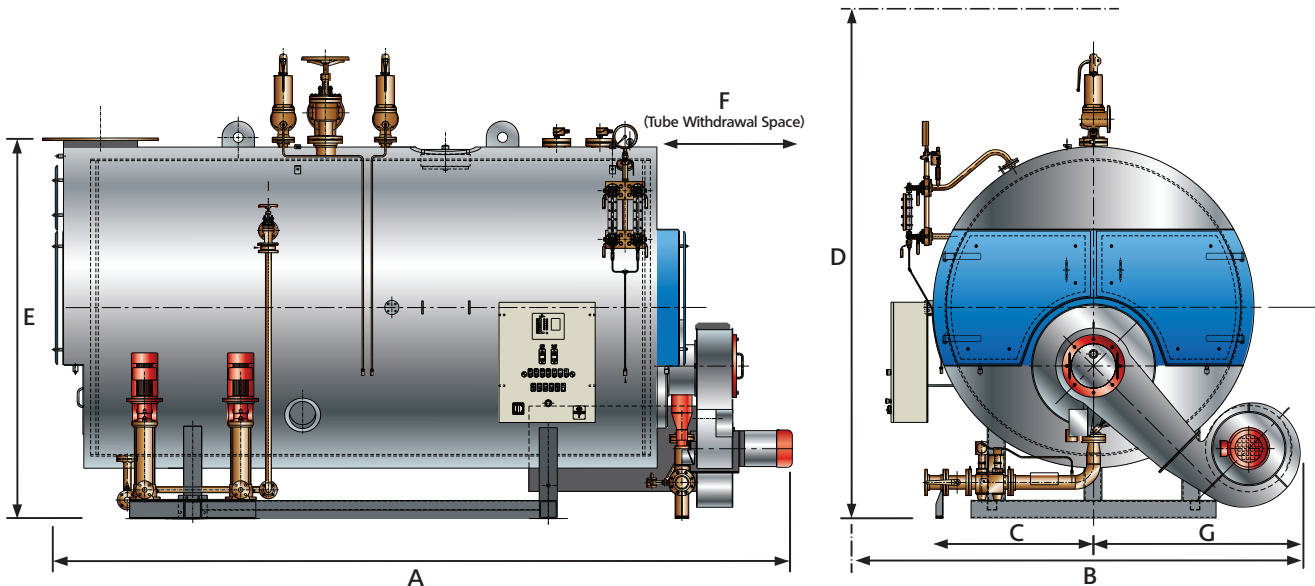


# ST36 Series

## British built Packaged Steam Boiler

For larger applications, the 100% British built Cochran ST36 high volume range offers the right combination of performance and integrity for users world-wide. The well-proven three pass wetback design is fully compliant with European regulations and delivers outputs of up to 24 tonnes on a single furnace. This range of boilers are used extensively in the Textiles and Pharmaceuticals sectors, as well as Distilleries, Chemical Plants, Hospitals, CHP and a host of other applications requiring reliable and flexible steam production and comes with a wide range of combustion and control packages, superheater and economiser options. The addition of an Economiser to this already highly efficient boiler can make an additional fuel saving of around 7%.



**Outputs (F&A 100°C): 6000 kg/hr to 24000 kg/hr. Standard Working Pressures: 10.34 Bar and 17.2 Bar.**

All Cochran steam boiler designs are available from 6 Bar up to 28 Bar.

Evaporation F&A 100°C	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
	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
Fuel Consumption Oil	l/hr	423.0	493.5	564.0	634.5	705.0	846.0	987.0	1128.0	1269.0	1410.0	-	-
Fuel Consumption Nat.Gas	m³/h	403.6	470.9	538.2	605.4	672.7	807.2	941.8	1076.3	1210.9	1345.4	1513.6	1614.5

**Important Note:** Dimensions B and D include allowance for a Cochran access gantry, not included within the standard package.

#### Notes:

- Oil Fuel Consumption based on Class D:BS 2869 NCV 36076 kJ/l (18355 BTU/lb).
- Gas Fuel Consumption based on Gas NCV 35312 kJ/m³ (948 BTU/Ft³).
- Fuel Consumptions based on boiler working pressure of 10.34 Bar G.
- Gas fired efficiency 90%, the addition of an Economiser will increase efficiency to 95%.
- Oil fired efficiency 91%, the addition of an Economiser will increase efficiency to 96%.
- Gas consumptions based on 95% efficiency including economiser.
- All Dimensions and weights are approximate based upon boiler working pressure of 10.34 Bar.
- For boilers rated above 20000kg/hr, the heat input on oil firing is limited to comply with EN12953 standards.

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