



JOHN THOMPSON EUROPAC™

Chainrate Stoker Coal-fired Boiler with Spiral-tubes



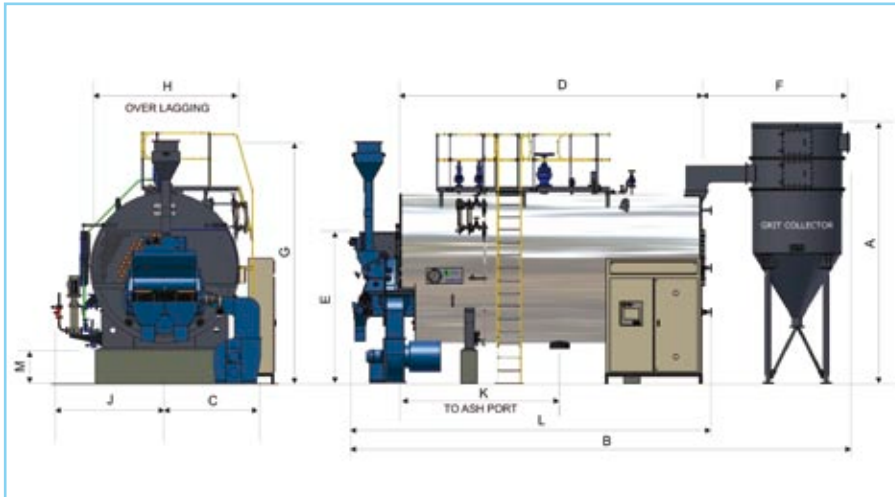
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Chaingrate Stoker Coal-fired Boiler with Spiral-tubes

Features & Benefits

- Design and manufacture to latest European Standard, EN12953 for a design pressure of 1100 kPa (Designs also available up to 2 000 kPa)
- Three-pass conventional firetube wet-back design with spiral tubes in both tube passes
- Flanged end-plates in place of flat end-plates on selected boilers to eliminate tee-butt weld joints. This will reduce susceptibility to corrosion fatigue and extend boiler life
- Latest spiral-tube technology with heat transfer up to 100% greater than normal plain tubes to reduce gas outlet temperature to only 15°C above steam saturation temperature
- Thermal efficiency of 85% with NCV 26 500 kJ/kg provides 10 kg steam per kg coal
- MICROPAC energy management system to increase efficiency and reduce operating and maintenance costs
- Variable-speed drives for FD fan, ID fan, feedpumps and stoker to reduce power consumption
- Total package incorporates chaingrate stoker, feedwater pumps and controls, control panel, grit collector, fans and all necessary valves and fittings
- Quality system is accredited to SANS 9001 : 2000 and boilers are certified by an Approved Inspection Authority before despatch.



Notes

1. Fuel consumption based on Peas coal GCV 27 500 kJ/kg and working pressure 1000 kPa
2. All dimensions and masses are approximate based on boiler design pressure of 1100 kPa
3. Model numbers TU1600 and TU2100 have twin stokers
4. Full range of support services are available from our regional offices
5. Whilst all information is given in good faith, it should be confirmed before establishing any contractual commitment.

Boiler Model Number		TU	180	320	500	675	800	1050	1600	2100
Evaporation:	From & at 100°C	kg/h	1800	3200	5000	6750	8000	10500	16000	21000
	At 1000 kPa, feedwater 20°C	kg/h	1507	2679	4186	5651	6697	8790	13395	17581
Boiler Rating		kW	1128	2006	3134	4231	5015	6582	10030	13164
Dimensions in mm:	A	mm	4543	4852	5044	5196	5427	5557	5957	6207
	B	mm	8785	9917	10315	11167	12250	12470	12800	13170
	C	mm	1350	1375	1600	1740	1835	2050	2425	2650
	D	mm	4610	5360	5360	6010	6860	6860	6860	6860
	E	mm	2346	2346	2516	2606	2661	2801	3231	3401
	F	mm	3050	3350	3600	3800	3950	4100	4500	4800
	G	mm	3200	3200	3990	4400	4800	5230	5370	5830
	H	mm	2200	2250	2700	2980	3170	3600	4350	4800
For Ash Trolley Removal:	J	mm	2000	2025	2250	2390	2485	2700	3075	3300
	K	mm	1868	3106	2727	3184	3260	3869	3260	3869
	L	mm	5735	6567	6715	7367	8300	8370	8300	8370
Main Steam Valve Diameter		mm	65	100	100	150	150	150	200	200
Safety Valve Exhaust Diameter		mm	32	40	50	65	65	80	100	100
Safety Valve Exhaust Diameter		mm	32	40	50	65	65	80	100	100
Feed Check Valve Diameter		mm	25	32	32	32	50	50	50	50
Blowdown Valve Diameter		mm	50	50	50	50	50	50	50	50
Feedpump Inlet Diameter		mm	25	32	32	40	40	50	50	65
Recommended Stack Diameter		mm	350	450	500	600	700	800	1000	1100
Fuel Consumption		kg/h	177	314	491	663	785	1031	1571	2062
Mass:	Empty	tons	9	12	16	22	26	34	54	68
	Operating	tons	17	21	29	39	49	62	96	116
	Full of Water	tons	18	23	31	42	53	69	105	127