

JOHN THOMPSON EUROPAC

Coal- / Biomass-fired Boiler



Your one-stop global energy solutions partner

ACTOM

SINCE 1903

Features & Benefits

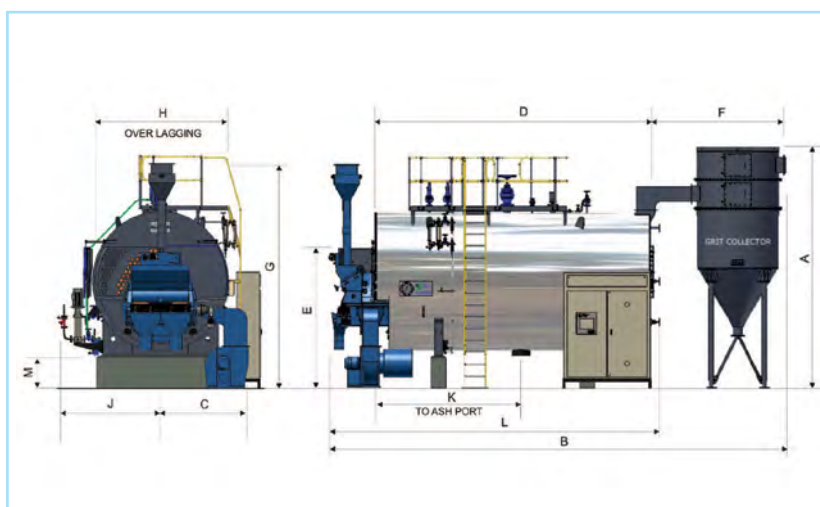
- Designed and manufactured to the latest European Standard EN12953 for standard design pressures of 1 100 kPa, 1400 kPa, 1 725 kPa and 2 000 kPa. Nonstandard pressures available on request
- Three-pass conventional firetube wet-back design with spiral tubes in both tube passes
- Flanged end-plates in place of flat end-plates on selected boilers to

eliminate tee-butt weld joints. This reduces susceptibility to corrosion fatigue and extends 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 84% with GCV 27 500 kJ/kg provides 10 kg steam per kg coal
- Total package incorporates chaingrate stoker, feedwater pumps and controls,

control panel, grit collector, fans and all necessary valves and fittings

- Euro-BMS PLC-controlled 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
- Quality system is accredited to ISO 9001:2008 and boilers are certified by an Approved Inspection Authority before despatch.



Notes

- Coal consumption based on Peas coal GCV 27 500 kJ/kg and working pressure 1000 kPa
- Steam output on biomass is subject to fuel analysis
- All dimensions and masses are approximate based on design pressure 1100 kPa
- Model numbers TU1600 and TU2100 have twin stokers
- Full range of support services are available from our regional offices
- Whilst all information is given in good faith, it should be confirmed before establishing any contractual commitment.

Boiler Model Number			TU180	TU320	TU500	TU675	TU800	TU1050	TU1600	TU2100
Evaporation: From & at 100°C			kg/h	1 800	3 200	5 000	6 750	8 000	10 500	21 000
At 1 000 kPa, feedwater 20°C			kg/h	1 507	2 679	4 186	5 651	6 697	8 790	17 581
Boiler Rating			kW	1 128	2 006	3 134	4 231	5 015	6 582	13 164
Dimensions in mm (includes 200 mm plinth)	A	mm	4 619	4 852	5 044	5 196	5 427	5 557	5 957	6 207
	B	mm	8 785	9 917	10 315	11 167	12 250	12 470	12 800	13 170
	C	mm	1 374	1 522	1 840	1 990	2 150	2 145	3 125	3 220
	D	mm	4 610	5 360	5 360	6 010	6 860	6 860	6 860	6 860
	E	mm	2 346	2 346	2 516	2 606	2 661	2 801	3 231	3 401
	F	mm	3 050	3 350	3 600	3 800	3 950	4 100	4 500	4 800
	G	mm	3 830	3 900	3 990	4 400	4 800	5 230	5 370	5 830
For ash trolley removal	H	mm	2 200	2 250	2 700	2 980	3 170	3 600	4 350	4 800
	J	mm	2 000	2 025	2 250	2 390	2 485	2 700	3 075	3 300
	K	mm	1 868	3 106	2 727	3 184	3 260	3 869	3 260	3 869
	L	mm	5 735	6 567	6 715	7 367	8 300	8 370	8 300	8 370
	M	mm	675	675	675	675	675	675	675	675
Main steam valve diameter			mm	65	100	100	150	150	150	200
Safety valve exhaust diameter (1)			mm	32	40	50	65	65	80	100
Safety valve exhaust diameter (2)			mm	32	40	50	65	65	80	100
Feed check valve diameter			mm	25	32	32	32	50	80	50
Blowdown valve diameter			mm	50	50	50	50	50	50	50
Feedpump inlet diameter			mm	25	32	32	40	40	50	50
Recommended stack diameter			mm	350	450	500	600	700	800	1 000
Coal consumption			kg/h	177	314	491	663	785	1 031	1 571
Mass:	Empty	tons	9	12	16	22	26	35	55	69
	Operating	tons	17	21	29	40	49	63	98	118
	Full of water	tons	18	23	31	43	53	70	107	129

JOHN THOMPSON OFFICES

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