

JOHN THOMPSON SIMPAC

Wood-fired Boiler with Fixed-grate

john thompson

Your one-stop global energy solutions partner

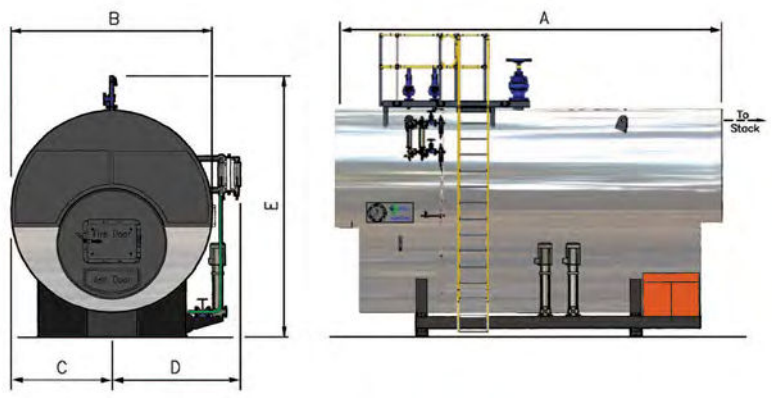
ACTOM

SINCE 1903

A division of ACTOM (Pty) Ltd

Features & Benefits

- Three-pass, conventional, wet- back design incorporating latest spiral-tube technology with heat ransfer up to 100% greater than normal plain tubes
- High thermal efficiency of 85% with NCV 15 800 kJ/kg
- Boiler rating can be achieved with wood moisture content up to 25%
- Fixed-grate of robust construction with high quality Meehanite cast iron grate bars for long life
- Design and manufacture to latest EuropeanStandard, EN12953 for a design pressure of 1100 kPa. (Designs also available up to 2 500 kPa)
- Total package incorporates a fixed-grate, feedwater pumps and controls, control panel, ID fan with variable speed control,and all necessary valves and fittings
- All boilers are inspected and certified by an Approved Inspection Authority before dispatch
- Quality Management Systems are audited by SABS and satisfy the requirements of SANS ISO 9001:2008.



Notes

1. Fuel consumption based upon NCV 15 800 kJ/kg, moisture content 12%, flue gas CO2 15%
2. All dimensions, masses and fuel consumption are approximate based upon a boiler working pressure of 1 000 kPa
3. Full range of support services are available from our regional offices
4. Whilst all information is given in good faith, it should be confirmed before establishing any contractual commitment.

Boiler Model Number			TS300	TS400	TS500	TS600
Evaporation: From & at 100°C		kg/h	3 000	4 000	5 000	6 000
At 1 000 kPa, feedwater 20°C		kg/h	2 510	3 348	4 185	5 022
Boiler Rating		kW	1 880	2 510	3 140	3 760
Dimensions in mm	A	mm	5 670	5 670	5 670	5 670
	B	mm	2 590	2 800	2 970	3 250
	C	mm	1 295	1 400	1 485	1 625
	D	mm	1 500	1 640	1 720	1 900
	E	mm	3 300	3 650	3 800	4 350
Main Steam Valve		mm	80	100	100	150
Safety Valve Exhaust Diameter (1)		mm	50	50	50	40
Safety Valve Exhaust Diameter (2)		mm	-	40	50	65
Feed Check Valve Diameter		mm	25	32	32	32
Blowdown Valve Diameter		mm	32	32	32	32
Feed Pump Inlet Diameter		mm	25	32	32	32
Recommended Stack Diameter		mm	450	500	600	650
Fuel Consumption	Wood logs	kg/h	505	675	840	1 010
Mass:	Empty	tons	18.3	22.0	24.5	27.8
	Operating	tons	30.9	36.0	39.8	45.4
	Full of Water	tons	32.8	38.1	41.9	47.7

JOHN THOMPSON OFFICES

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