



JOHN THOMPSON AquaGen®
Chaingrate Stoker Coal-fired Hot Water Generator



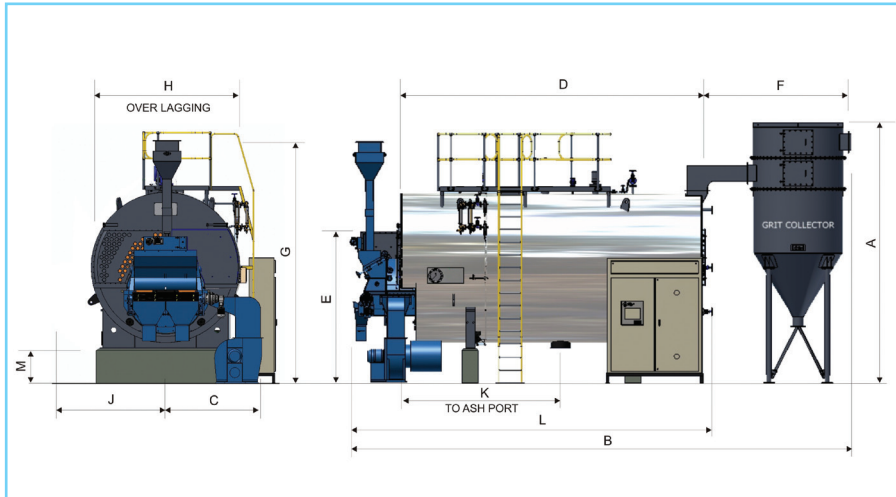
ACTOM

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Chaingrate Stoker Coal-fired Hot Water Generator

Features & Benefits

- Design and manufacture is generally in accordance with BS 855 or the latest European Standard, EN 12953.
- Latest spiral-tube technology with heat transfer up to 100% greater than normal plain tubes to reduce gas outlet temperature to only 20°C above water flow temperature
- Thermal efficiency of 88% with GCV 27 500 kJ/kg
- Electronic control system to increase efficiency and reduce operating and maintenance costs
- Variable-speed drives for FD fan, ID fan and stoker to reduce power consumption
- Three-pass firetube wet-back design with spiral tubes (optional) in both tube passes
- Total package incorporates chaingrate stoker, swinging chute, control panel, grit collector, fans and all necessary valves and fittings
- Quality system is accredited to SANS 9001:2000 and generators are certified by an Approved Inspection Authority before despatch.



Notes

1. The AquaGen generator is not classified as a pressure vessel or a boiler because its working pressure is less than 50 kPa
2. Fuel consumption based on Peas coal GCV 27 500 kJ/kg
3. All dimensions and masses are approximate
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.

AquaGen Model Number		TQ110	TQ200	TQ310	TQ420	TQ500	TQ650	
Water Flow Rate:	kg/s	13.2	24.0	37.2	50.4	60.0	78.0	
(With 20°C flow/return differential)								
Generator Rating	kW	1 100	2 000	3 100	4 200	5 000	6 500	
Dimensions in mm:	A	4 619	4 852	5 044	5 196	5 427	5 557	
	B	8 785	9 917	10 315	11 167	12 250	12 470	
	C	1 374	1 522	1 840	1 990	2 150	2 145	
	D	4 610	5 360	5 360	6 010	6 860	6 860	
	E	2 346	2 346	2 516	2 606	2 661	2 801	
	F	3 050	3 350	3 600	3 800	3 950	4 100	
	G	3 830	3 900	3 990	4 400	4 800	5 230	
	H	2 200	2 250	2 700	2 980	3 170	3 600	
For Ash Trolley Removal:	J	2 000	2 025	2 250	2 390	2 485	2 700	
	K	1 868	3 106	2 727	3 184	3 260	3 869	
	L	5 735	6 567	6 715	7 367	8 300	8 370	
	M	675	6 567	6 715	7 367	8 300	8 370	
Water Flow Connection Diameter	mm	100	125	150	175	200	225	
Water Return Connection Diameter	mm	100	125	150	175	200	225	
Blowdown Valve Diameter	mm	50	50	50	50	50	50	
Recommended Stack Diameter	mm	350	450	500	600	700	800	
Fuel Consumption	kg/h	164	298	461	625	744	968	
Mass:	Empty	tons	9	12	16	22	26	35
	Operating	tons	17	21	29	40	49	63
	Water Content	tons	8	9	13	18	23	28

JOHN THOMPSON a division of ACTOM (Pty) Ltd.

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