

4MW Watertube Steam Boiler Datasheet.xlsx

Model	John Thompson SDGL4
Capacity	4MW
Type	D type Watertube
Burner	Weishaupt: WM-G30/3-A-ZM and WM-G30/3-A-ZM-LN
Burner Turn Down	8:1
Steam Flow Rate – Evaporation from & At 100°C	6382 kg/hr
Steam Flow Rate – Evaporation at 10 barg from feed at 85°C	5941 kg/hr
Fuel Consumption – (approx.)	
Natural Gas @ 100% Firing Rate*	16946 MJ/hr
Principle Design Standards	ASME I
Design Temperature	250°C
Steam Temperature	184 °C
Design Pressure	1750 kPag
Test Pressure	2635 kPag
Operating Pressure	1000 kPag
Heating Surface Boiler Radiant	30.7 m ²
Heating Surface Boiler Total Convective	193 m ²
Heating Surface Economiser	125 m ²
Main Steam Outlet	125NB ANSI 300
Feedwater Inlet	40NB ANSI 300
Safety Valve	32NB ANSI 300 x 2
Blowdown Valve Bottom Drum	40NB ANSI 300
Stack Flue Diameter	450 mm
Overall Height	3850 flange faces
Overall Width	3290(with Platform)
Overall Length	6540 (with Platform)
Fitted Weight incl. trim(dry) approx.	11050kg
Flooded Weight approx.	16090kg
Steam Dryness	98.5%
Boiler Efficiency (GCV/NCV) – Economiser*	85.0 / 94.3
Boiler Efficiency (GCV/NCV) Economiser Bypass	79.6 / 88.2
Expected Stack Outlet Temperature*	< 125
NOx Level@3%O₂	<150mg/Nm ³
CO Level	<50ppm