

2MW Watertube Steam Boiler Datasheet.xlsx

Model	John Thompson SDGL2
Capacity	2MW
Type	D type Watertube
Burner	Weishaupt: WM-G30/1-A-ZM and WM-G30/1-A-ZM-LN
Burner Turn Down	8:1
Steam Flow Rate – Evaporation from & At 100°C	3191 kg/hr
Steam Flow Rate – Evaporation at 10 barg from feed at 85°C	2971 kg/hr
Fuel Consumption – (approx.)	
Natural Gas @ 100% Firing Rate*	8563 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	17.1 m ²
Heating Surface Boiler Total Convective	113 m ²
Heating Surface Economiser	60 m ²
Main Steam Outlet	100NB ANSI 300
Feedwater Inlet	25NB ANSI 300
Safety Valve	25NB ANSI 300 x 2
Blowdown Valve Bottom Drum	40NB ANSI 300
Stack Flue Diameter	350 mm
Overall Height	3000 flange faces
Overall Width	2890 (with Platform)
Overall Length	5640 (with Platform)
Fitted Weight incl. trim(dry) approx.	7480kg
Flooded Weight approx.	10460kg
Steam Dryness	98.5%
Boiler Efficiency (GCV/NCV) – Economiser*	84.5 / 93.7
Boiler Efficiency (GCV/NCV) Economiser Bypass	78.4 / 86.9
Expected Stack Outlet Temperature*	< 130
NOx Level@3%O₂	<150mg/Nm ³
CO Level	<50ppm