## 10MW Watertube Steam Boiler Datasheet.xlsx

Model	John Thompson SDGL10
Capacity	10MW
Туре	D type Watertube
Burner	Weishaupt: WKmono 80/1-A-ZM
	NR or WKmono 80/2-A-ZM-3LN
Burner Turn Down	8:1
Steam Flow Rate - Evaporation from & At 100°C	15954 kg/hr
Steam Flow Rate - Evaporation at 10 barg from feed at 85°C	14853 kg/hr
Fuel Consumption – (approx.)	42260 MJ/hr
Natural Gas @ 100% Firing Rate*	
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	50 m <sup>2</sup>
Heating Surface Boiler Total Convective	411 m <sup>2</sup>
Heating Surface Economiser	192 m²
Main Steam Outlet	200NB ANSI 300
Feedwater Inlet	50NB ANSI 300
Safety Valve	50NB ANSI 300 x 2
Blowdown Valve Bottom Drum	40NB ANSI 300
Stack Flue Diameter	750 mm
Overall Height	3850 flange faces
Overall Width	3890(with Platform)
Overall Length	8040 (with Platform)
Fitted Weight incl. trim(dry) approx.	19000kg
Flooded Weight approx.	25500kg
Steam Dryness	98.5%
Boiler Efficiency (GCV/NCV) – Economiser*	85.2 / 94.2
Boiler Efficiency (GCV/NCV) Economiser Bypass	80.3 / 89.1
Expected Stack Outlet Temperature*	< 130
NOx Level@3%02	<150mg/Nm <sup>3</sup>
CO Level	<50ppm