

## 3MW Watertube Steam Boiler Datasheet.xlsx

<b>Model</b>	John Thompson SDGL3
<b>Capacity</b>	3MW
<b>Type</b>	D type Watertube
<b>Burner</b>	Weishaupt: WM-G30/3-A-ZM
<b>Burner Turn Down</b>	8:1
<b>Steam Flow Rate – Evaporation from &amp; At 100°C</b>	4786 kg/hr
<b>Steam Flow Rate – Evaporation at 10 barg from feed at 85°C</b>	4456 kg/hr
<b>Fuel Consumption – (approx.)</b>	12750 MJ/hr
<b>Natural Gas @ 100% Firing Rate*</b>	
<b>Principle Design Standards</b>	ASME I
<b>Design Temperature</b>	250°C
<b>Steam Temperature</b>	184 °C
<b>Design Pressure</b>	1750 kPag
<b>Test Pressure</b>	2635 kPag
<b>Operating Pressure</b>	1000 kPag
<b>Heating Surface Boiler Radiant</b>	27.5 m <sup>2</sup>
<b>Heating Surface Boiler Total Convective</b>	162 m <sup>2</sup>
<b>Heating Surface Economiser</b>	82 m <sup>2</sup>
<b>Main Steam Outlet</b>	100NB ANSI 300
<b>Feedwater Inlet</b>	40NB ANSI 300
<b>Safety Valve</b>	32NB ANSI 300 x 2
<b>Blowdown Valve Bottom Drum</b>	40NB ANSI 300
<b>Stack Flue Diameter</b>	400 mm
<b>Overall Height</b>	3850 flange faces
<b>Overall Width</b>	3290(with Platform)
<b>Overall Length</b>	6240 (with Platform)
<b>Fitted Weight incl. trim(dry) approx.</b>	10200kg
<b>Flooded Weight approx.</b>	14800kg
<b>Steam Dryness</b>	98.5%
<b>Boiler Efficiency (GCV/NCV) – Economiser*</b>	84.7 / 93.9
<b>Boiler Efficiency (GCV/NCV) Economiser Bypass</b>	79.4 / 88
<b>Expected Stack Outlet Temperature*</b>	< 130
<b>NOx Level@3%O<sub>2</sub></b>	<150mg/Nm <sup>3</sup>
<b>CO Level</b>	<50ppm