



Water Tube Steam Boiler

Australia's largest certified
package boiler company.



**The Environmental
Group Limited**
Engineering a Sustainable Future

The Environmental Group Limited

www.environmental.com.au

Working across the Circular Economy

Our Purpose

Engineering a sustainable future.

Our Mission

To enable our clients to contribute to a cleaner environment by safely delivering pivotal solutions while generating value for our shareholders, staff, and partner industries.

Our Team

Our local experts are dedicated to reducing waste and boosting energy performance. Trusted worldwide to provide the highest standards of service and support.

Tomlinson Energy Services

Part of The Environmental Group

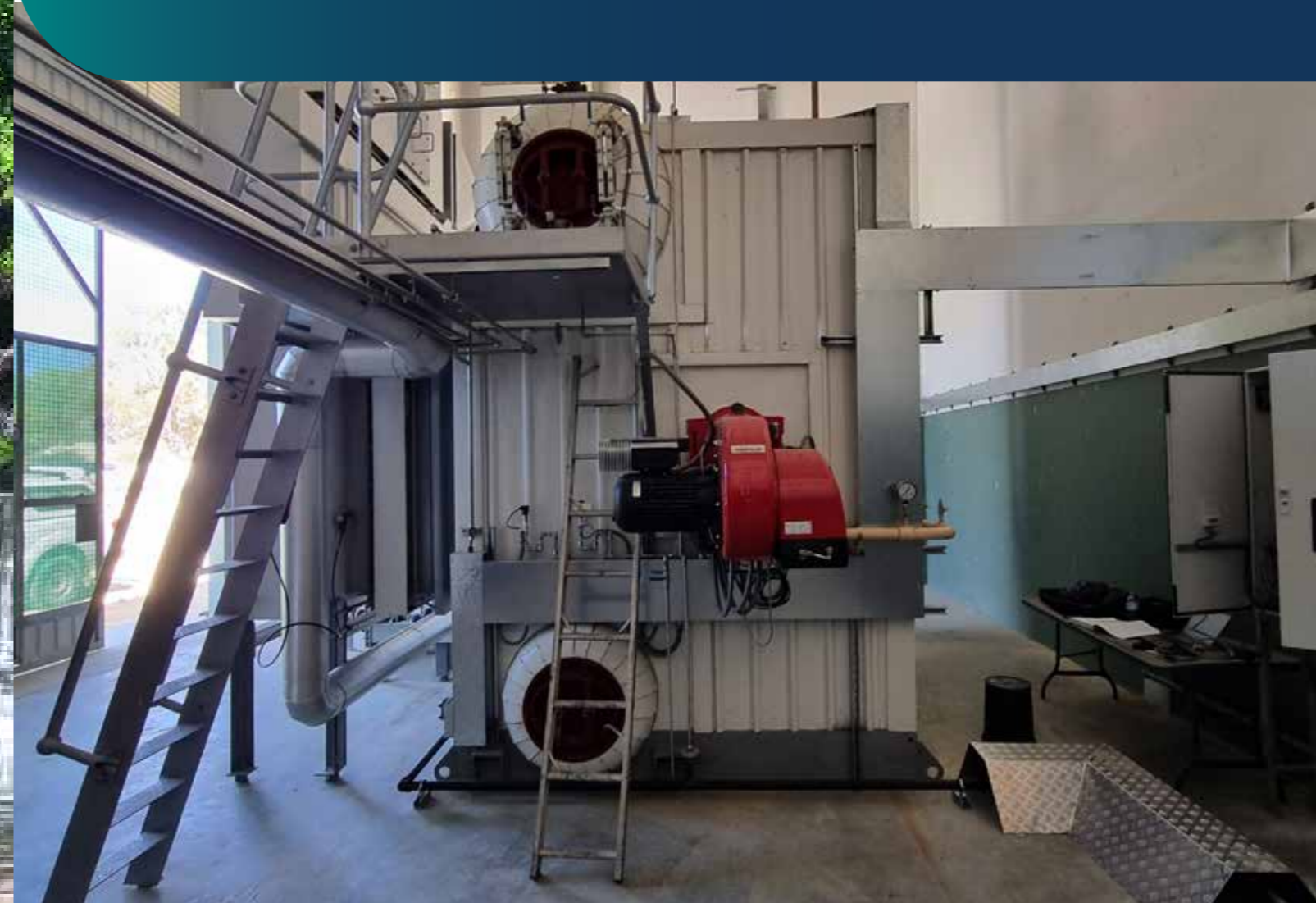
Tomlinson Energy Services is Australia's leading provider of packaged boiler solutions, delivering the highest combustion efficiency to keep operating costs low and performance high.

We specialise in custom design, installation, commissioning, and national servicing and repairs, complemented by our 24/7 emergency support.

With offices and a dedicated service team across Australia, Tomlinson Energy Services ensures boilers operate at peak performance for maximum efficiency and reliability.



Water Tube Steam Boiler



A Century of Excellence

100% Australian Design

Tomlinson Energy is Australia's boiler specialist, providing 24/7 emergency and service support to the Asia-Pacific markets – supplying economical, high-efficiency packages for steam boilers, hot water & thermal oil heaters. We also offer in-house technology from prestigious brands, including Tomlinson Boilers, Bosch, Fulton Condensing Boilers and John Thompson Package Boilers.

2MW WATERTUBE STEAM BOILER



3MW WATERTUBE STEAM BOILER



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.)	8563 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	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

Model	John Thompson SDGL3
Capacity	3MW
Type	D type Watertube
Burner	Weishaupt: WM-G30/3-A-ZM
Burner Turn Down	8:1
Steam Flow Rate – Evaporation from & At 100°C	4786 kg/hr
Steam Flow Rate – Evaporation at 10 barg from feed at 85°C	4456 kg/hr
Fuel Consumption – (approx.)	12750 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	27.5 m ²
Heating Surface Boiler Total Convective	162 m ²
Heating Surface Economiser	82 m ²
Main Steam Outlet	100NB ANSI 300
Feedwater Inlet	40NB ANSI 300
Safety Valve	32NB ANSI 300 x 2
Blowdown Valve Bottom Drum	40NB ANSI 300
Stack Flue Diameter	400 mm
Overall Height	3850 flange faces
Overall Width	3290(with Platform)
Overall Length	6240 (with Platform)
Fitted Weight incl. trim(dry) approx.	10200kg
Flooded Weight approx.	14800kg
Steam Dryness	98.5%
Boiler Efficiency (GCV/NCV) – Economiser*	84.7 / 93.9
Boiler Efficiency (GCV/NCV) Economiser Bypass	79.4 / 88
Expected Stack Outlet Temperature*	< 130
NOx Level@3%O₂	<150mg/Nm ³
CO Level	<50ppm

4MW WATERTUBE STEAM BOILER



6MW WATERTUBE STEAM BOILER



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.)	16946 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	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

Model	John Thompson SDGL6
Capacity	6MW
Type	D type Watertube
Burner	Weishaupt: WM-G50/2-A-ZM NR
Burner Turn Down	8:1
Steam Flow Rate – Evaporation from & At 100°C	9572 kg/hr
Steam Flow Rate – Evaporation at 10 barg from feed at 85°C	8912 kg/hr
Fuel Consumption – (approx.)	25400 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	35.5 m ²
Heating Surface Boiler Total Convective	264 m ²
Heating Surface Economiser	144 m ²
Main Steam Outlet	150NB ANSI 300
Feedwater Inlet	40NB ANSI 300
Safety Valve	32NB ANSI 300 x 2
Blowdown Valve Bottom Drum	40NB ANSI 300
Stack Flue Diameter	550 mm
Overall Height	3850 flange faces
Overall Width	3290(with Platform)
Overall Length	7140 (with Platform)
Fitted Weight incl. trim(dry) approx.	12820kg
Flooded Weight approx.	18690kg
Steam Dryness	98.5%
Boiler Efficiency (GCV/NCV) – Economiser*	85.0 / 94.3
Boiler Efficiency (GCV/NCV) Economiser Bypass	79.8 / 88.5
Expected Stack Outlet Temperature*	< 130
NOx Level@3%O₂	<150mg/Nm ³
CO Level	<50ppm

8MW WATERTUBE STEAM BOILER

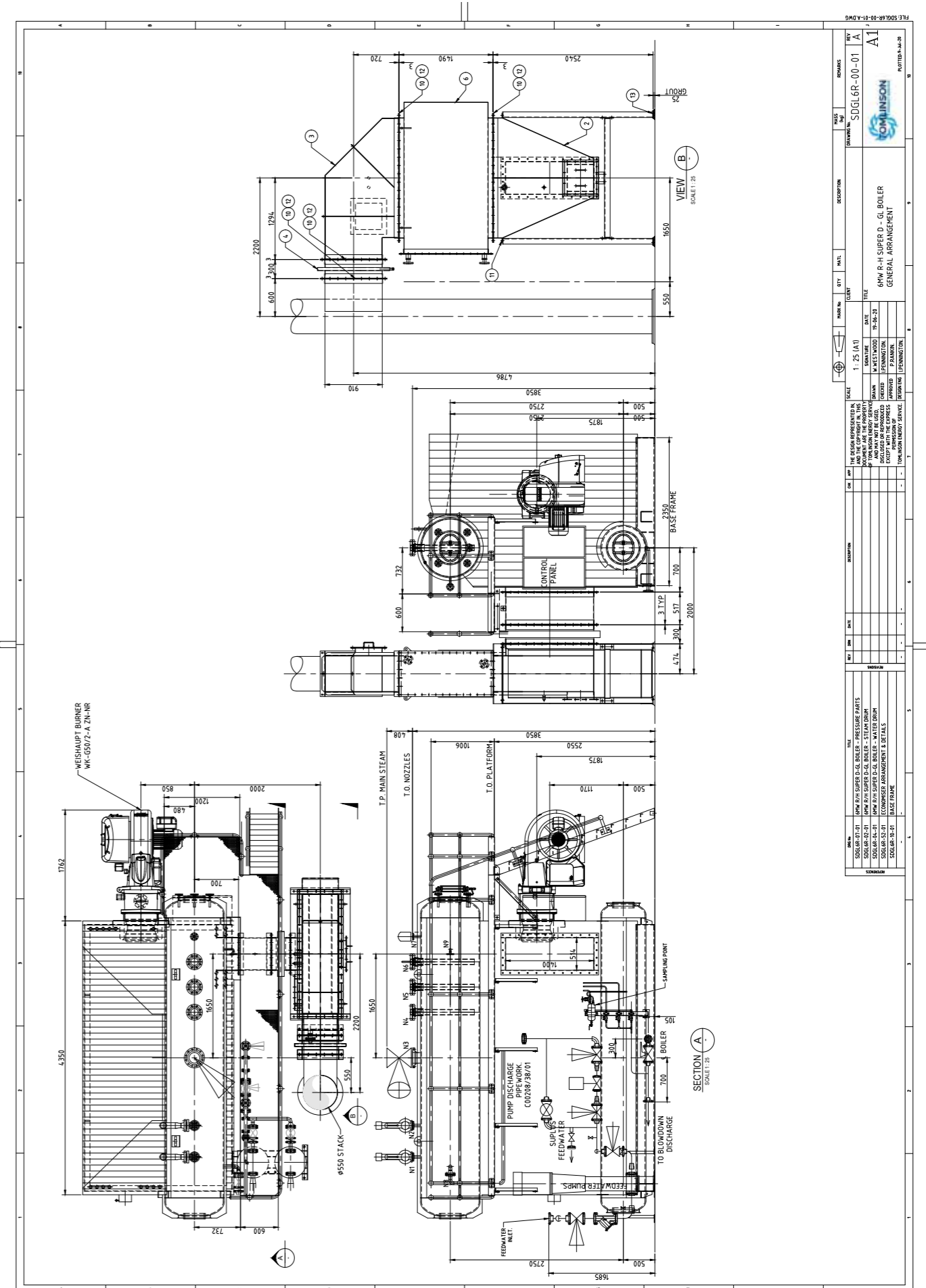
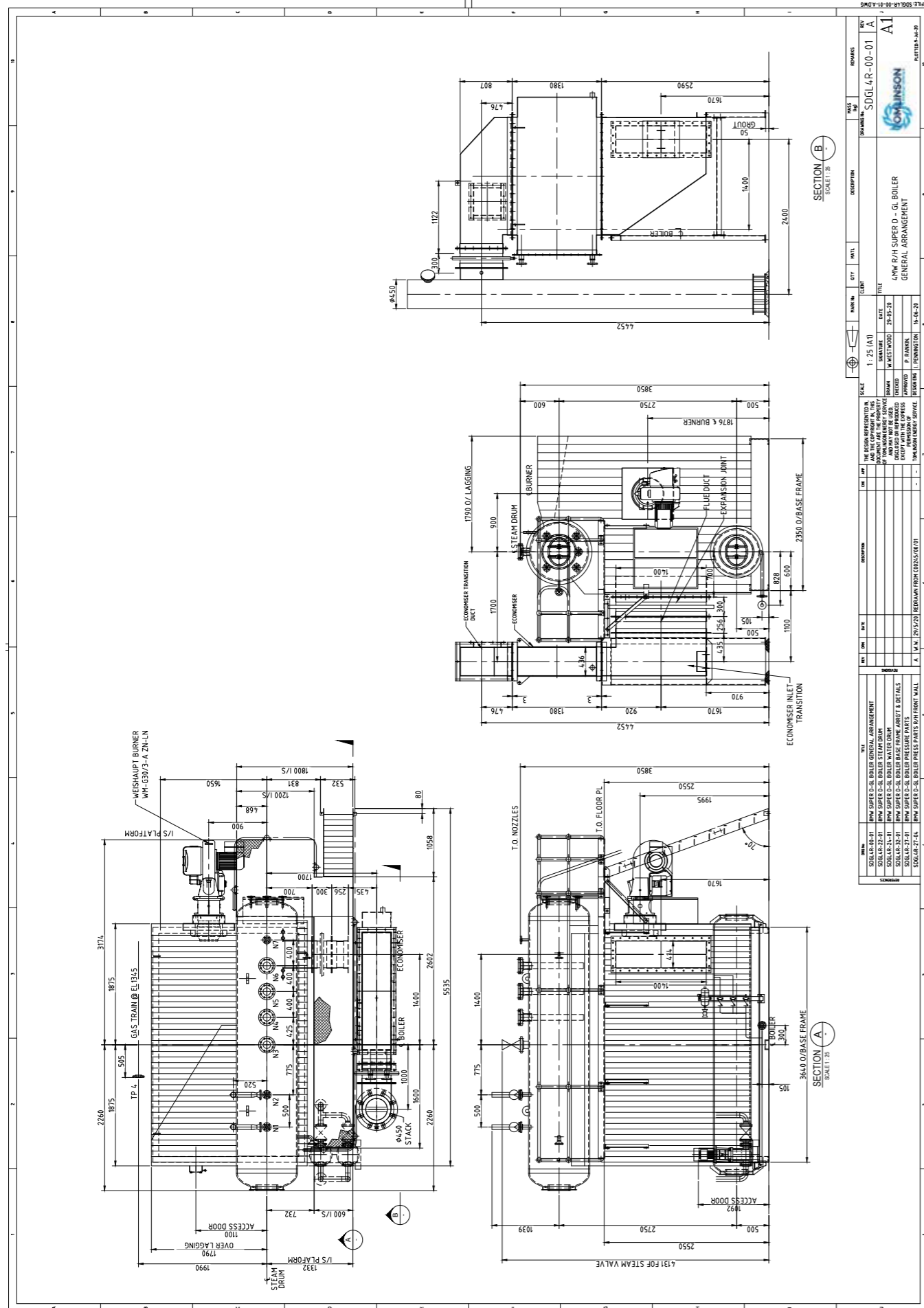


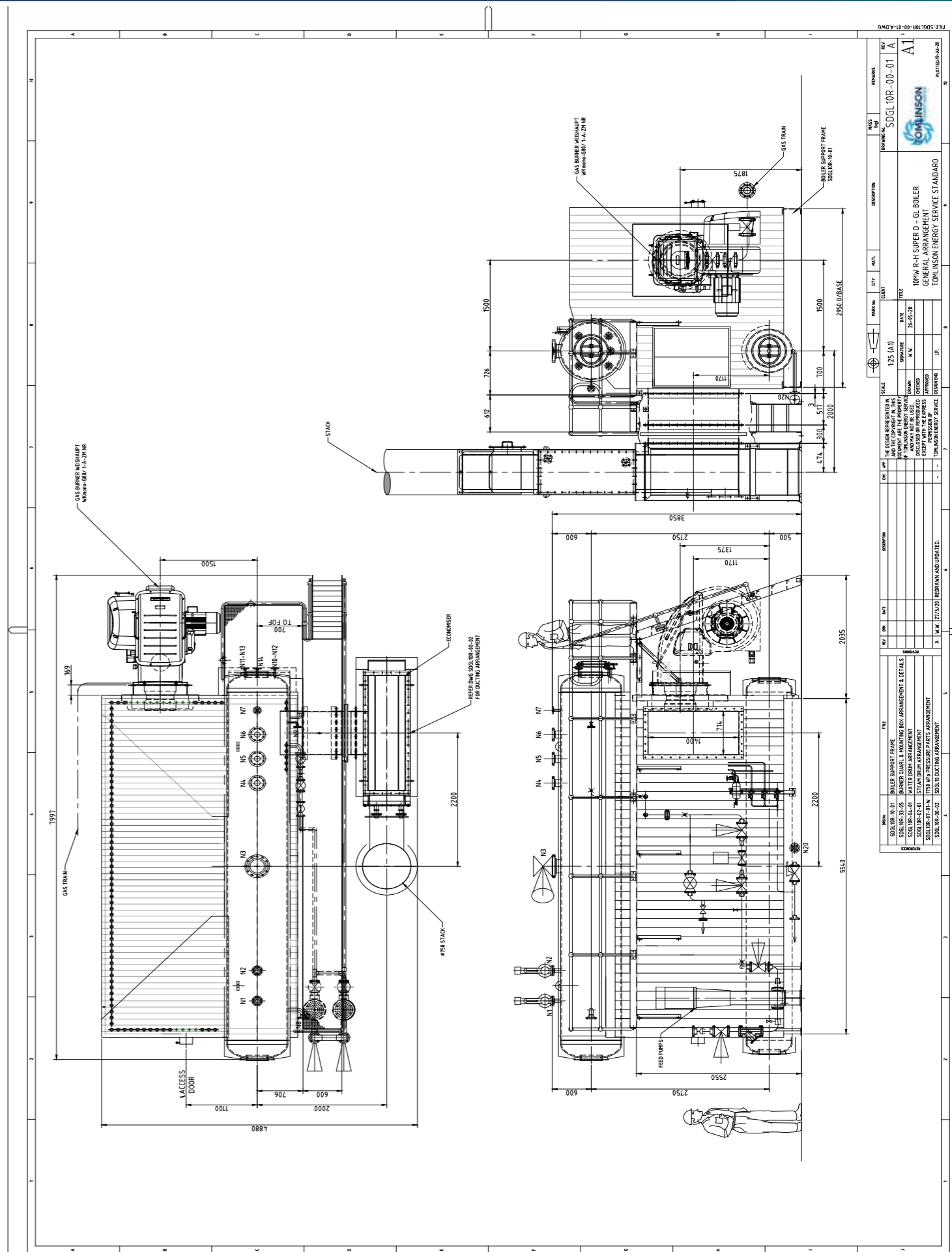
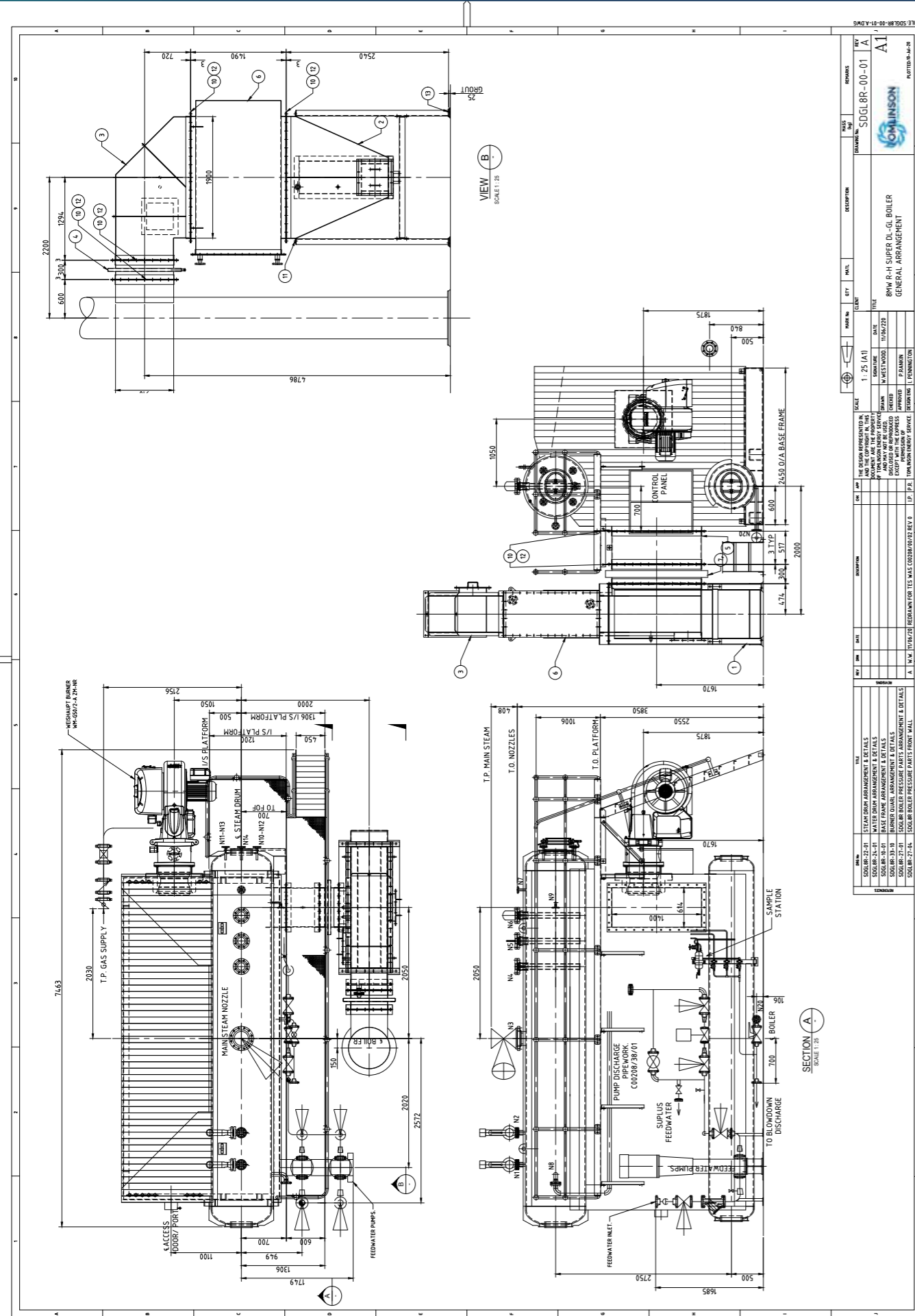
10MW WATERTUBE STEAM BOILER



Model	John Thompson SDGL8
Capacity	8MW
Type	D type Watertube
Burner	Weishaupt: WM-G50/2-A-ZM NR
Burner Turn Down	8:1
Steam Flow Rate – Evaporation from & At 100°C	12763 kg/hr
Steam Flow Rate – Evaporation at 10 barg from feed at 85°C	11882 kg/hr
Fuel Consumption – (approx.)	33840 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	41.9 m ²
Heating Surface Boiler Total Convective	331.1 m ²
Heating Surface Economiser	192.2 m ²
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	650 mm
Overall Height	3850 flange faces
Overall Width	3390(with Platform)
Overall Length	7940 (with Platform)
Fitted Weight incl. trim(dry) approx.	15840kg
Flooded Weight approx.	22900kg
Steam Dryness	98.5%
Boiler Efficiency (GCV/NCV) – Economiser*	85.1 / 94.4
Boiler Efficiency (GCV/NCV) Economiser Bypass	79.2 / 87.8
Expected Stack Outlet Temperature*	< 130
NOx Level@3%O₂	<150mg/Nm ³
CO Level	<50ppm

Model	John Thompson SDGL10
Capacity	10MW
Type	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 ²
Heating Surface Boiler Total Convective	411 m ²
Heating Surface Economiser	192 m ²
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%O₂	<150mg/Nm ³
CO Level	<50ppm





10MW R-H SUPER DL-G BOILER DUCTING



Contact Us

Maximising Energy Efficiencies for a Sustainable Future

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