



OBYONE Firetube Steam Boiler

Powerful, Precise, Unstoppable



OBYONE

Firetube Steam Boiler

Packaged smoke tube steam boiler — three pass, reversed flame, wet back. 300 to 6000 kg/h. Up to 12 bar. Liquid or gaseous fuels. Auto operation ready.

86%

Peak Efficiency

12 Bar

Std. Working Pressure

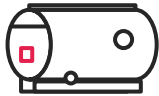
300-6000

Steam kg/h

3 Pass

Reversed Flame

Design Features



Boiler Body

- Cylindrical shell
- Wet back furnace
- High quality steel



Smoke Tubes

- Steel turbulators or aluminium/ steel inserts — as required



Front Door

- Welded steel
- Insulation + refractory lining
- Reversible opening



Rear Smoke-Box

- Easy access
- cleaning door
- Pre-arranged for integral economiser



Thermal Insulation

- Dual rock wool layers with aluminium foil
- Thermal bridge elimination



Gangway

- Checker plate — upper part access



Panel Boards

- Electromechanical and electronic
- expandable

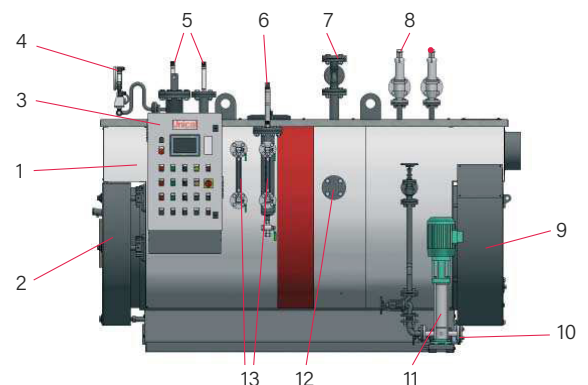


Burner Compatibility

- One, two, three stage or modulating burners

Design Features

1. Boiler body
2. Front door
3. Panel board
4. Instruments assembly
5. Level Safety sensors
6. Capacitive level transmitter (IML)
7. Steam throttle
8. Safety valve
9. Rear smoke chamber
10. Drain
11. Pumping feeding group
12. TDS connection
13. Level gauge



Technical Specifications

Model Breakdown

Model (kg/h)	Nominal Input (kW)	Nominal Output (kW)	Output STD (kW)	Max Pressure (bar)	Water Content (L)
300	217	187	234	12	540
400	290	249	314	12	540
500	362	311	392	12	820
600	435	374	470	12	820
800	579	498	644	12	1080
1000	724	623	805	12	1080
1250	905	779	979	12	1555
1500	1086	934	1175	12	1555
2000	1449	1246	1597	12	2005
2500	1811	1557	1926	12	2890
3000	2173	1869	2310	12	2890
4000	2897	2492	3133	12	4155
5000	3621	3114	3917	12	5800
6000	4346	3737	4700	12	6760

** Feeding water temperature = 100°C · Pressure = 12 bar . With Economiser*

Operating Parameters

Performance		Connection	
Steam Production Range	300–6,000 kg/h	Burner Head Min. Length	340–370 mm
Standard Max. Working Pressure	12 bar	Burner Head Max. Diameter	210–420 mm
Higher Pressure	Available on request	Smoke Side ΔP	2.2–8.8 mbar
Peak Efficiency	Up to 86% with economiser		
Fuel Type	Liquid or gaseous		

Lower carbon, lower cost, higher reliability — through engineered energy systems.

Delivered & Commissioned



2x500kW OBYONE Steam Boiler
Cleanaway, 126 Barry Road,
CAMPBELLFIELD VIC 3061



2xOBYONE S 3500 Steam Boiler
JBS, 2 Regulator Rd,
Yanco NSW 2703



500KW OBYONE800 Steam Boiler
M&KH Trading,
NSW



4000kW OBYONE3P-6000 Steam Boiler,
Orica 136 Turpentine St, Blackwater 4717,
QLD

Why O'Brien?

- **Australia's Largest**

Leading supplier of industrial boilers across Australia

- **20+ Years Experience**

Decades of engineering expertise in steam & hot water systems

- **24/7 Support**

Around the clock support with instant phone assistance

- **Accredited Training**

RTO Code 45484,
boiler operation training nationwide

- **Tailored Solutions**

Custom engineered,
with no off the shelf compromises

- **765+ Active Clients**

Trusted across Australia and internationally

Ready to engineer
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