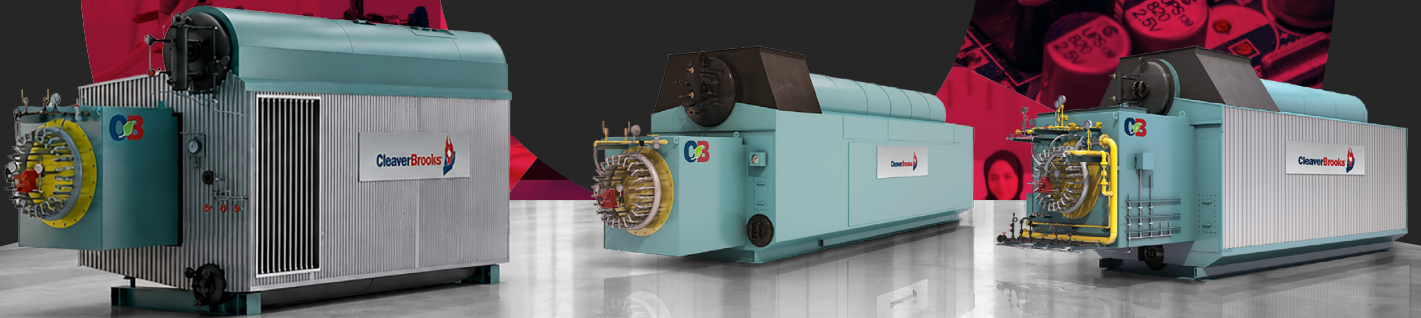
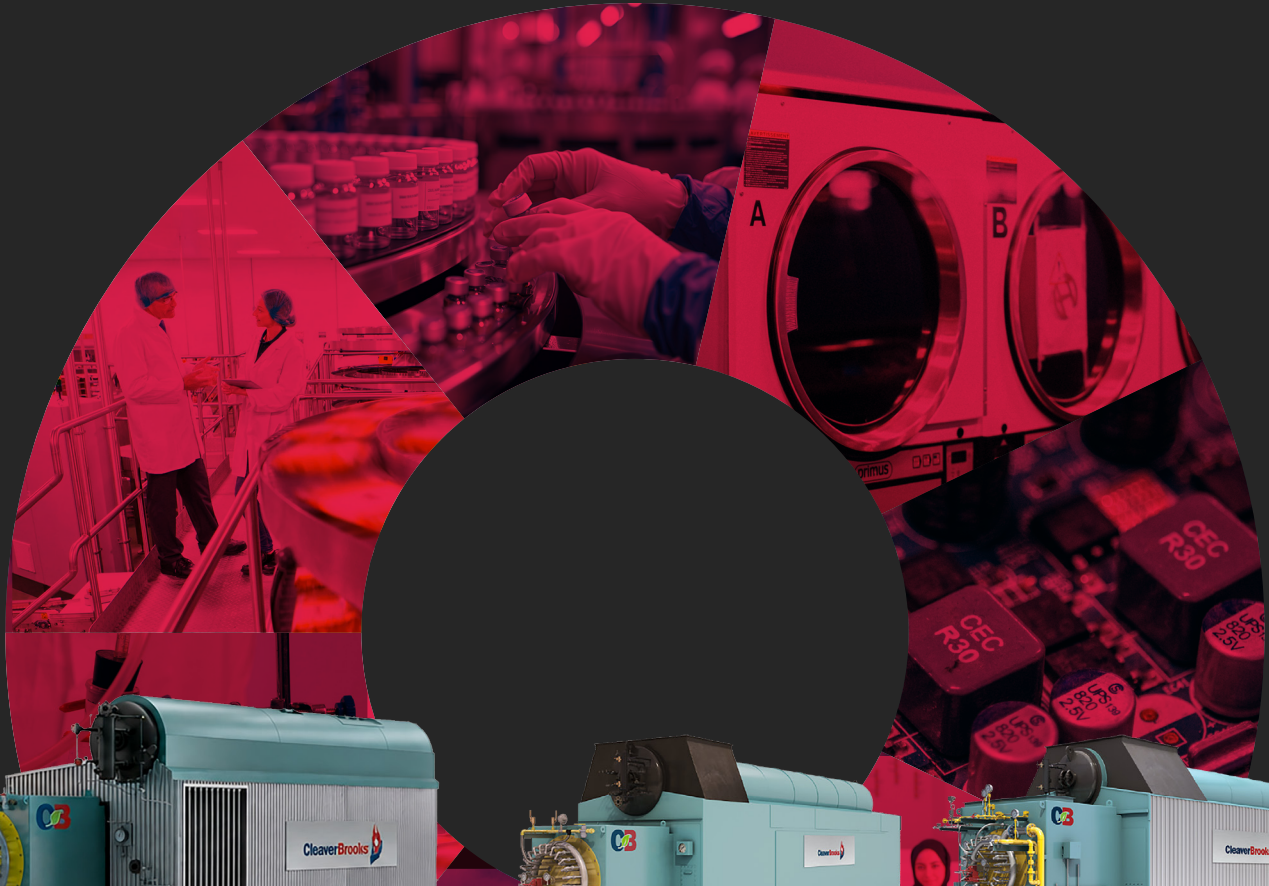




CleaverBrooks Industrial Watertube Boilers

One Engineered Range,
Built to Cover Every Industrial Steam Load

**4,536 to
453,592 kg/h**

Capacity across the range

**Up to
172 bar**

Design pressure

**6
Configurations**

D, A, O, Elevated Drum, FC-OSSG, HRSG

Built by one manufacturer, engineered as one system.

O'Brien supplies watertube boilers across six configurations, from a compact D-style unit to a high-capacity elevated drum system rated over 450,000 kilograms per hour, all sharing the same welded, membrane wall, refractory-free construction and built under one roof as a single integrated system.

Boiler rooms rarely fail at the boiler itself, they fail at the joins, where a burner, control system or stack from different suppliers never quite line up. O'Brien removes that risk at the source: the pressure vessel, burner, controls, heat recovery equipment and exhaust stack are all designed and built together, with a refractory-free furnace, including the burner throat, standard across the entire range rather than an upgrade.



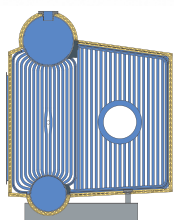
Range at the glance

Configuration	Capacity	Pressure	Emissions
D-Style	4,536 to 226,796 kg/h	Up to 124 bar	Under 7 ppm NOx, ultra-low CO
A-Style	4,536 to 226,796 kg/h	Up to 124 bar	Under 7 ppm NOx, ultra-low CO
O-Style	4,536 to 226,796 kg/h	Up to 124 bar	Under 7 ppm NOx, ultra-low CO
Elevated Drum & Modular	90,718 to 453,592 kg/h	Up to 124 bar	Under 7 ppm NOx, ultra-low CO
FC-OSSG	68,039 to 226,796 kg/h	Up to 172 bar	Under 7 ppm NOx, ultra-low CO
HRSGs	4,536 to 226,796 kg/h	Up to 159 bar	Under 2 ppm NOx, ultra-low CO



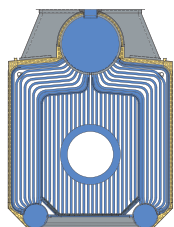
Six configurations, one engineering foundation.

The core range, D-Style, A-Style and O-Style, shares the same capacity band and construction standard. The choice between them comes down to footprint, application and how the boiler needs to sit on site.



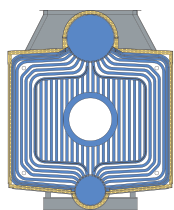
D-Style

The workhorse of the range. A fully water-cooled, refractory-free furnace keeps annual maintenance well below an older refractory-lined design, and a single or dual stage integral superheater is available where a process needs superheated rather than saturated steam.



A-Style

A larger water-cooled furnace paired with a low gas-side pressure drop evaporator section, cutting the fan power needed to move the same volume of flue gas. Its narrow footprint suits sites that need large steam capacity but cannot spare the floor space.



O-Style

Built for rental and mobile duty. A vertical gas outlet and symmetrical layout suit mounting on a trailer for road transport, and the design is built to handle rapid emergency start-ups and keep running reliably season after season.

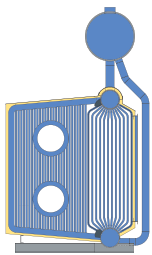
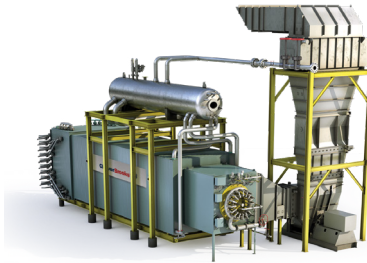


Range at the glance

- Membrane wall construction, fully water-cooled and refractory-free.
- Grooved tube seats for a stronger, longer lasting tube-to-drum attachment.
- Fully welded gas seals throughout for gas-tight operation.
- Compatible with selective catalytic reduction and CO catalyst where site emissions limits require it.

Purpose-built for demanding loads.

Some sites need more than the core range can offer, whether that is higher capacity, a specific water chemistry challenge, or steam generated from a turbine exhaust rather than a burner.



Elevated Drum and Modular.

Shop-built to shift as much of the work as possible off site, cutting field labour on high capacity projects. Shares the range's water-cooled, refractory-free construction, with dual burner and superheated steam options available where the application calls for them.

FC-OSSG, forced circulation steam generator.

Combines D-Style reliability with the steam purity of a once-through steam generator. Built for heavy industrial, refinery and petrochemical duty, including steam assisted gravity drainage processes, with a ten to one turndown ratio and a fully pigging-cleanable design that keeps running through feedwater quality upsets.

HRSGs, heat recovery steam generators.

Captures waste heat from a gas turbine, incinerator or other high temperature exhaust and turns it into usable steam. Configurations run from 1 to 100 megawatts, with external superheaters, economisers and feedwater heaters added where the application calls for them.



Controls, burners and sustainability.

Every configuration runs on the same integrated control platform, from a straightforward burner and flame safeguard system through to a fully custom engineered package, tested through factory and site acceptance before handover. Burners are matched to their furnace using computational fluid dynamics, giving a stable flame, ultra-low NO_x and CO, and turndown ratios up to 40 to 1 on gas. The full range can also fire renewable natural gas, biogas and hydrogen, reaching under 2 ppm NO_x with SCR, with efficiency upgrades available that lift performance by around 5 per cent on average.

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
your energy solution?

Connect with us at



1300 771 759



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