



CONCEPT

BOILER SYSTEMS

STATEMENT OF CAPABILITY

CONCEPT BOILER SYSTEMS

ABN 73 449 559 176

Address 1/4 Elsum Avenue
Bayswater North
VIC 3153

Phone +61 03 9729 9122

Email sales@conceptboilersystems.com.au

Website www.conceptboilersystems.com.au



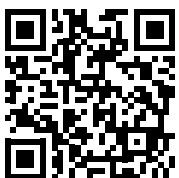


We've been manufacturing Steam Boilers, Hot Water Boilers and Ancillaries in Melbourne for over twenty years.

Our customer base includes Australian industry leaders in a range of industries such as Food and Beverage production, Chemical Manufacturing, Plating & Treatment facilities, Commercial Nurseries, Dairies and Agriculture, Essential Services and Concrete Manufacturing.

We employ a team of qualified boilermakers and highly trained service technicians to ensure quality standards are met during both manufacturing and after-sales service and maintenance.

Our certified Australian-Made Vertical Watertube Steam Boilers are reliable, efficient and cost effective. Each product in our range complies with all relevant Australian standards.



CONCEPT
BOILER SYSTEMS

www.conceptboilersystems.com.au

03 9729 9122 | 0408 367 913

Combustion Boilers

Electric Boilers

Diesel & Hire Boilers

Blow Down Vessels

Feed Water Tanks

Custom Pipe Work

Service & Inspection





CONCEPT
BOILER SYSTEMS

DESIGN & MANUFACTURE

Boiler Manufacturing to AS 1228 & AS 4458

Our team of qualified boilermakers are experienced in all aspects of pressure vessel manufacturing, with preparation and fabrication completed entirely in Australia from locally sourced plate, pipe and formed steel. We manufacture all of our boilers, feed water tanks, blow down vessels, skid frame mounts, steam manifolds and various mounting or bracing solutions in our Bayswater North factory. Our commitment to Australian Manufacturing ensures superior manufacturing quality and precision, extending the service life of our products through unmatched durability.

Ancillary & Pipework Manufacturing

With the experience and equipment required for manufacturing ancillary equipment such as Blow Down Vessels and Feed Water Tanks, as well as extensive pipe welding capabilities to DN600 and beyond, our team is experienced in various processes including Arc, MIG and TIG welding both in our facility and on-site, as well as MCAW and FCAW processes where required.

Vessel Design & Verification

All of our products are designed in-house before being verified independently. All products are registered and approved for use in Australia. We can provide customized systems such as shortened boilers, high-pressure boilers, and ancillaries or support systems designed to customer specifications.

CAD, CAM & CNC

We utilize CAD/CAM & CNC processes to manufacture our products, ensuring precision, consistency and material integrity. By fully utilising technologies such as laser cutting, plasma cutting, folding, bending and drilling, our production line of products and customised solutions both offer unmatched precision in manufacturing.





CONCEPT

BOILER SYSTEMS

SERVICE & INSTALLATION

Boiler Servicing & Maintenance

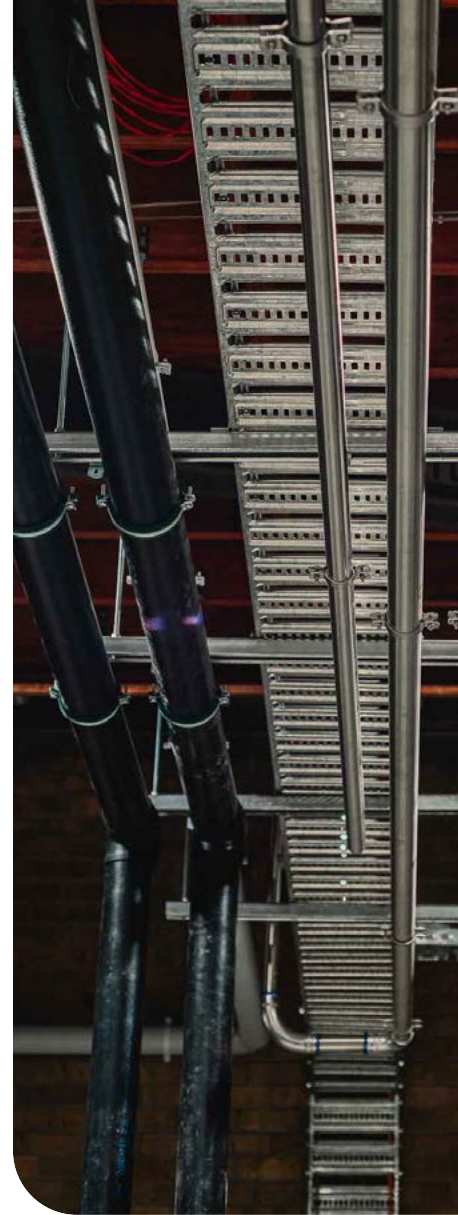
Our experienced service team provide comprehensive boiler servicing to clients throughout Victoria. Regular boiler servicing is prescribed by AS 2593 for all Steam Boilers in use throughout Australia, and our service team provide all required works to achieve compliance with the standard. We also look for early signs of wear and tear, and offer preventative maintenance solutions accordingly.

Annual Strip-Down Inspections

With extensive experience across a wide range of Steam Boilers, our team offers a complete annual strip down service, including facilitation of an independent inspection to AS 3788. We remove, clean and prepare all required components of the boiler for inspection, before reassembling and testing the boiler. Our service is fast and cost-effective, and ensures your business remains compliant with the stringent safety regulations prescribed by the standard.

Boiler Installation

With extensive knowledge and expertise in planning and executing steam and pressure equipment, our team has the skill and experience to deliver reliable, cost-effective and compliant installations. Our industry experience includes field-calculated pressure and specification of accessories, safe anchoring and suspension of pipework, pipe insulation, pneumatic valve installation and almost any other aspect of process heat systems. We offer installation of Steam Boilers, Ancillaries, Pipework and In-Line equipment such as Pressure Reducing Valves, Steam Filters, Steam Traps and more. Our team are experts in steam delivery to equipment and condensate return systems, with broad experience in various industries and a huge variety of process equipment.





CONCEPT
BOILER SYSTEMS

PRODUCT RANGE

CBS-EV ELECTRIC BOILERS

- ▶ Natural Gas, LPG or Diesel Fired
- ▶ Dual Stage or Fully Modulating Burners
- ▶ Modular Ready for 1000kW+ Installations
- ▶ Durable, Safe and Efficient



CBS-EV ELECTRIC BOILERS

- ▶ Fully Complaint Design
- ▶ IP-Rated, Fault Tested Electrical MCC
- ▶ Flanged Modular Element Array
- ▶ Industrial Grade Cabinet & Skid Frame
- ▶ High Design Pressure of 1100 kPa



ANCILLARY PRODUCTS

- ▶ Stainless Steel Feed Water Tanks
- ▶ Heavy Duty Blow-Down Vessels
- ▶ Customised Stands, Frames and Skids
- ▶ Comprehensive range of Valves, Traps, Strainers, Filters and Inline Ancillaries





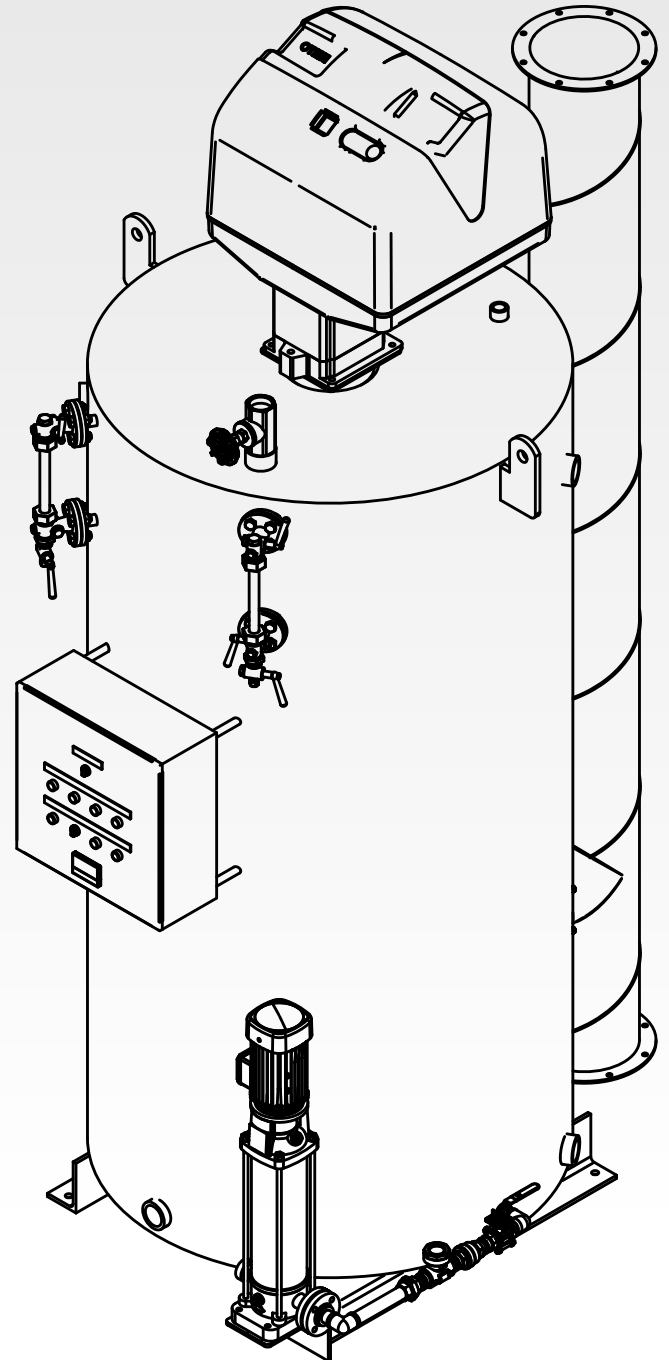
CBW SERIES

The CBW Vertical Watertube Steam Boiler is a heavy duty industrial steam boiler, fabricated entirely in our Bayswater North facility.

Available in both standalone and modular configurations, the CBW series is designed to seamlessly integrate with your manufacturing and production processes.

Our carefully considered features provide efficiency, durability and flexibility while keeping investment and operational expenses to a minimum.

- ▶ **Models from 100kW to 500kW**
- ▶ **Highly Efficient Design**
- ▶ **Scalable Modular System**
- ▶ **Work Safe Approved**
- ▶ **Fully Unattended Boiler**
- ▶ **High Quality Components**



**AUSTRALIAN MADE
AND OWNED**





CBW

KEY FEATURES

Australian Made

We manufacture all of our Steam Boilers in Bayswater, Victoria. Our team of qualified staff build each unit from locally sourced steel, ensuring unparalleled quality of workmanship at every stage.

Exceeds Australian Standards

Our Vertical Steam Boiler range is designed to the most exacting standards of AS 1228 and AS 2593, with additional measures applied to each design that go above and beyond to ensure operator safety.

Local Manufacturing

Our AS-3000 compliant switchboards, sight glass mounts, cladding and countless other components are locally manufactured, with materials of Australian origin utilized wherever possible.

Service & Maintenance

Our Melbourne-based service team offer a full range of quarterly, annual and call-out maintenance, with flexible scheduling, short response time, and quality workmanship.

Work Safety Approved

Each Concept Boiler Systems design is independently verified by both consulting engineers and local authorities, with design verification and individual inspection and testing completed for all models sold.

Unattended, Modular Design

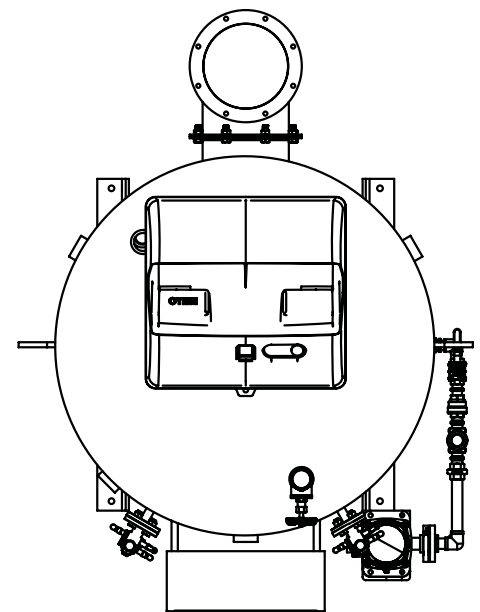
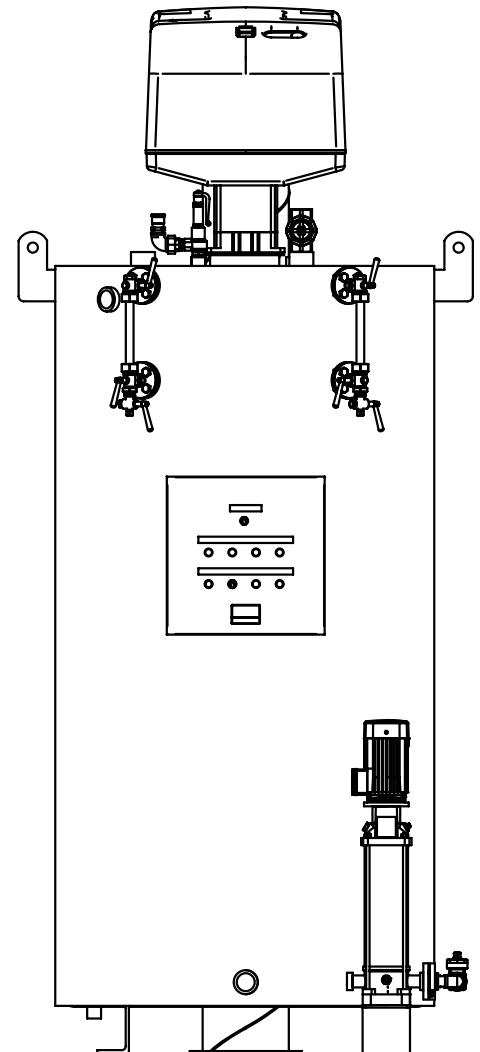
As fully unattended Steam Boilers, the CBW series is the ideal choice for building high output multi-boiler modular systems, offering enhanced efficiency, redundancy and usability.

High-Quality Electronics

By utilizing high-quality electronic components, we ensure the reliability and performance of the CBW series. Each unit is sold with a market-leading Riello burner, Grundfos feed-water pump and various premium sensors, instruments and relays.

Servicing & Installation

We offer installation nationwide of all systems sold, with equipment hook-up and full installation specification services available.



CBW MODELS

HIGH PRESSURE & LOW PROFILE VERSIONS AVAILABLE ON REQUEST

CBW-50

OUTPUT

POWER	500 kW
STEAM VOLUME	775 kg/hr
TEMPERATURE	180°C
DESIGN PRESSURE	1000 kPa

FUEL CONSUMPTION

NAT. GAS / LPG	2215 Mj/hr
DIESEL	58 l/hr

DIMENSIONS & WEIGHT

DEPTH	1900	HEIGHT	3200
WIDTH	1500	WEIGHT	1820

CBW-15

OUTPUT

POWER	150 kW
STEAM VOLUME	233 kg/hr
TEMPERATURE	180°C
DESIGN PRESSURE	1000 kPa

FUEL CONSUMPTION

NAT. GAS / LPG	665 Mj/hr
DIESEL	17.4 l/hr

DIMENSIONS & WEIGHT

DEPTH	1200	HEIGHT	2250
WIDTH	950	WEIGHT	690

CBW-30

OUTPUT

POWER	300 kW
STEAM VOLUME	465 kg/hr
TEMPERATURE	180°C
DESIGN PRESSURE	1000 kPa

FUEL CONSUMPTION

NAT. GAS / LPG	1329 Mj/hr
DIESEL	34.8 l/hr

DIMENSIONS & WEIGHT

DEPTH	1500	HEIGHT	2800
WIDTH	1200	WEIGHT	1110

Customised

OUTPUT

POWER	5 - 400 kW
STEAM VOLUME	78 - 620 kg/hr
TEMPERATURE	over 180°C
DESIGN PRESSURE	up to 1200 kPa

The **CBW Steam Boiler Range** is available in a huge range of power increments, working pressures and form factors. If you have a specialised requirement, speak to our team to learn more about our custom boiler engineering solutions.

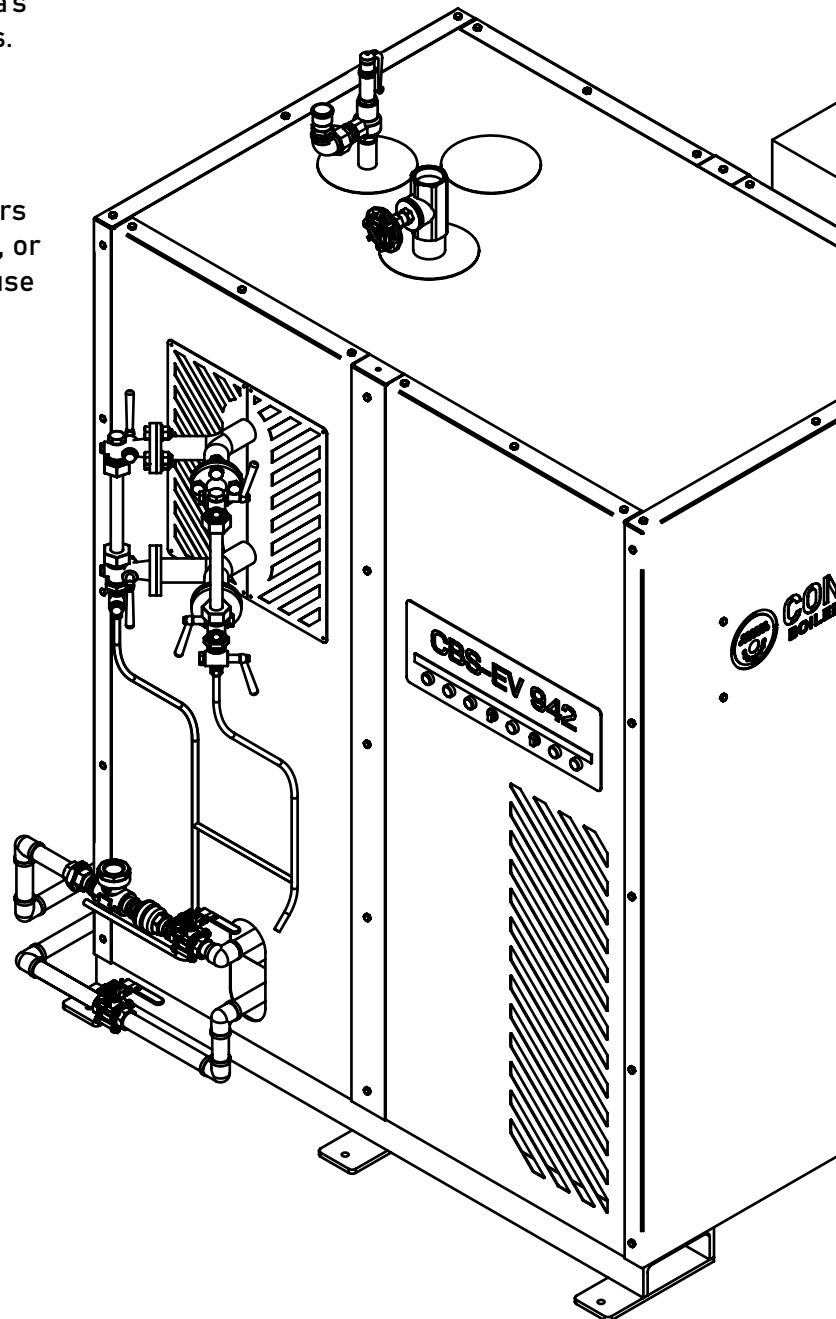


CBS-EV SERIES

The CBS-EV range of Electric Boilers are Australia's first truly industrial steam electrification solutions.

With an industry leading baseline pressure of 1100kPa, the CBS-EV system can be seamlessly integrated to an existing combustion boiler room, installed alongside new Concept combustion boilers to create a state of the art Hybrid Modular system, or installed as a standalone unit to reduce point-of-use emissions to absolute zero.

- ▶ **Models from 90kW to 700kW**
- ▶ **Durable, Persistent Output**
- ▶ **Scalable Modular System**
- ▶ **IP-Rated Electrical MCC**
- ▶ **Fully Unattended Boiler**
- ▶ **Individually Wired Elements**
- ▶ **Hybrid Steam Solutions**





CBS-EV

KEY FEATURES

Australian Made

We manufacture all of our Steam Boilers in Bayswater, Victoria. Our team of qualified staff build each unit from locally sourced steel, ensuring unparalleled quality of workmanship at every stage.

IP Rated Master Controls

Our AS-3000 compliant switchboards are IP Rated and Fault Tested to all relevant standards. Each master control cabinet is fully separated from the boiler, ensuring maximum safety and protection from steam or water coming from the system.

Quality Components

Our sheet metal cabinets, sight glass mounts, cladding and countless other components are locally manufactured, with materials of Australian origin utilized wherever possible.

Work Safety Approved

Each Concept Boiler System CBS-EV design is independently verified by both consulting engineers and local authorities, with design verification and individual inspection and testing completed for all models sold.

Unattended, Modular Design

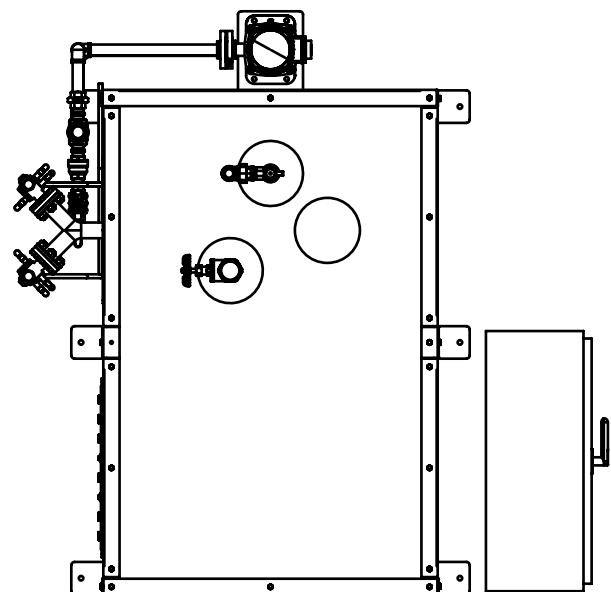
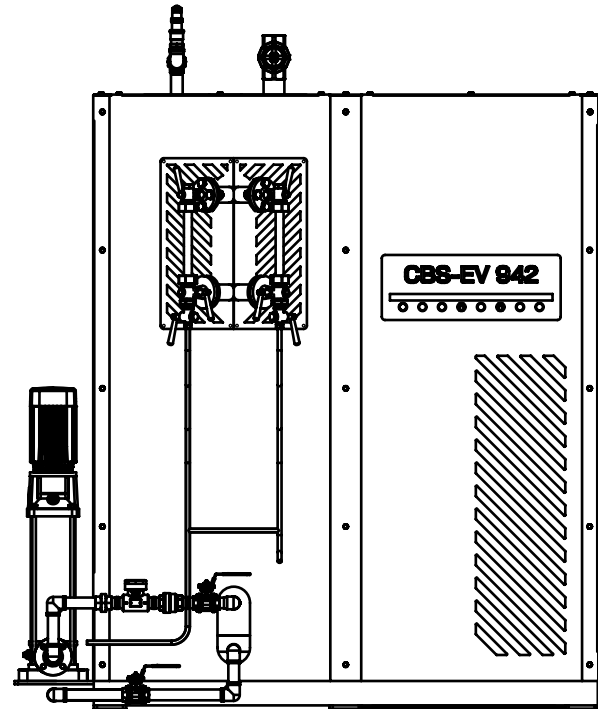
As fully unattended Steam Boilers, the CBS series is the ideal choice for building high output multi-boiler modular systems, offering enhanced efficiency, redundancy and usability.

High-Quality Electronics

By utilizing high-quality electronic components, we ensure the reliability and performance of the CBS-EV series. Each unit is sold with locally manufactured Heating Elements, a Grundfos feed-water pump and various premium sensors, instruments and relays.

SCADA Integration Options

The CBS-EV is available in traditional HMI configuration as standard, with optional upgrade to fully integrated SCADA system for unparalleled connectivity and integration with a variety of energy efficiency solutions.



CBS-EV MODELS

HYBRID & MODULAR SYSTEMS AVAILABLE

CBS-EV 3-9

OUTPUT

POWER	30 - 90 kW
STEAM VOLUME	up to 140 kg/hr
TEMPERATURE	185°C
DESIGN PRESSURE	1100 kPa

FUEL CONSUMPTION

FULL LOAD AMPS	43 - 130 A
CONNECTION	3 Phase 415v

CBS-EV 9-42

OUTPUT

POWER	90 - 420 kW
STEAM VOLUME	up to 655 kg/hr
TEMPERATURE	185°C
DESIGN PRESSURE	1100 kPa

FUEL CONSUMPTION

FULL LOAD AMPS	130 - 605 A
CONNECTION	3 Phase 415v

CBS-EV 42-70

OUTPUT

POWER	420 - 700 kW
STEAM VOLUME	up to 1085 kg/hr
TEMPERATURE	185°C
DESIGN PRESSURE	1100 kPa

ELECTRICAL

FULL LOAD AMPS	605 - 980 A
CONNECTION	3 Phase 415v

FOR ALL MODELS, SIZE, POWER, STEAM VOLUME AND FULL LOAD AMPERAGE ARE DEPENDENT ON SELECTED CONFIGURATION. ENQUIRE WITH OUR TEAM FOR FURTHER INFORMATION.



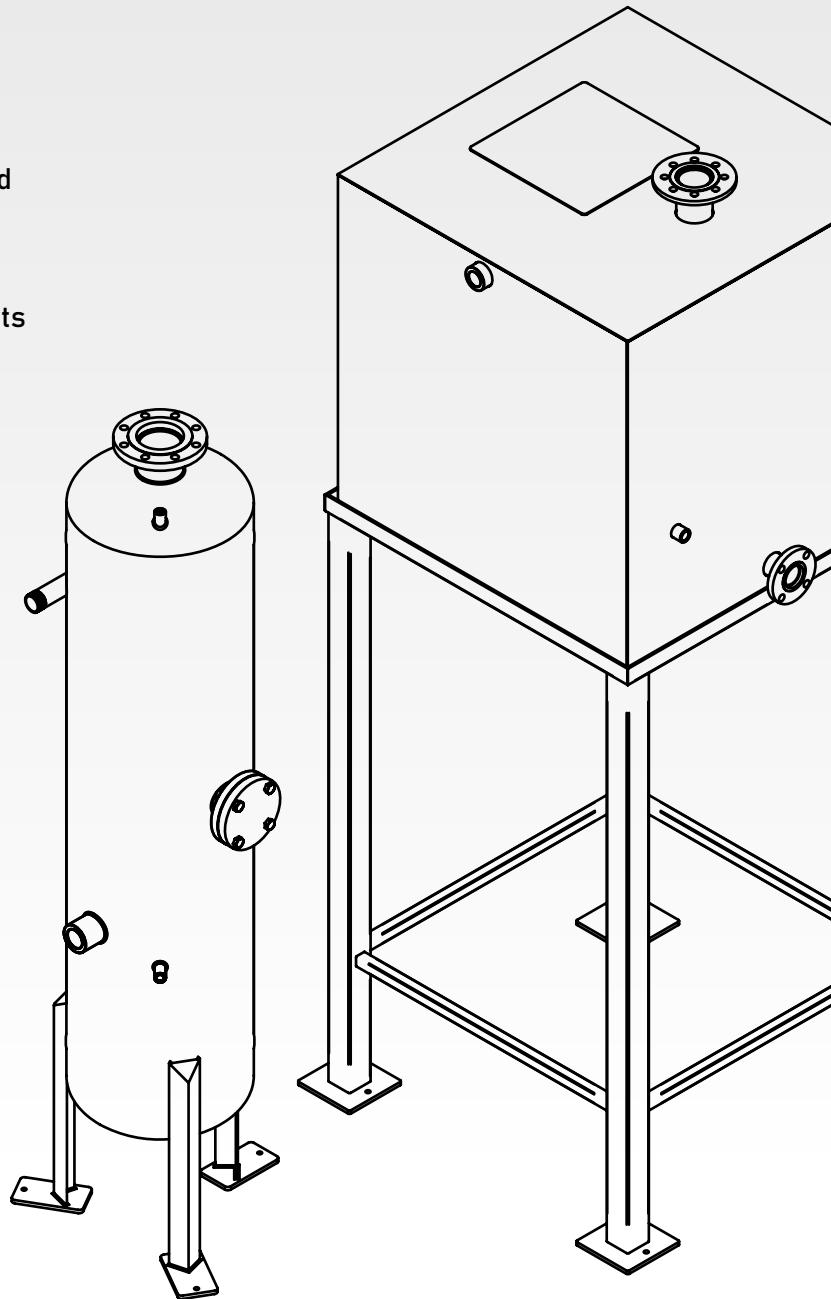


ANCILLARY PRODUCTS

Our complete range of Boiler Ancillaries is manufactured in Australia to the same exacting standards as our Steam Boilers. Built with high-quality carbon and stainless steel, our range of blow-down vessels, feedwater tanks, stands and mounting solutions are built to last.

Whether you require new ancillary products, custom-built solutions, refurbishing of existing units or removal and re-installation of your plant room, our team can offer a practical, high-performance solution to your steam requirements.

- ▶ **Feed Water and Blow Down**
- ▶ **Suitable for All Boilers**
- ▶ **Quality Fabrication & Material**
- ▶ **Built to Australian Standards**
- ▶ **Custom Design Available**





FEED WATER

Built in Australia from durable Stainless Steel sheeting, our Feed Water Tank range is designed to withstand constant usage in industrial environments. Flanged and BSP-threaded connection points provide universal connectivity to any Boiler, mains water supply, condensate return line and ventilation systems.

Our custom-made feed water tank stands are built to order from Australian steel, and tailored to the requirements of the Feed Water Tank with bracing to suit various loads.

Stainless steel stands available on request.

FWT-420

CUBIC TANK - 750mm

TOTAL CAPACITY 420 L
CONNECTION OPTIONS Flanged, BSP

FWT-1000

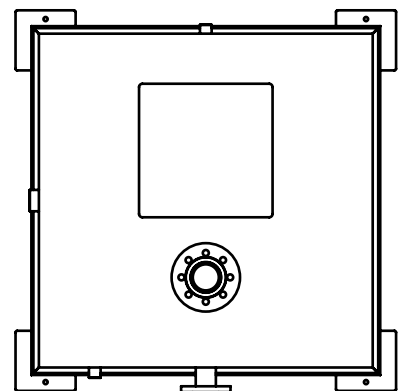
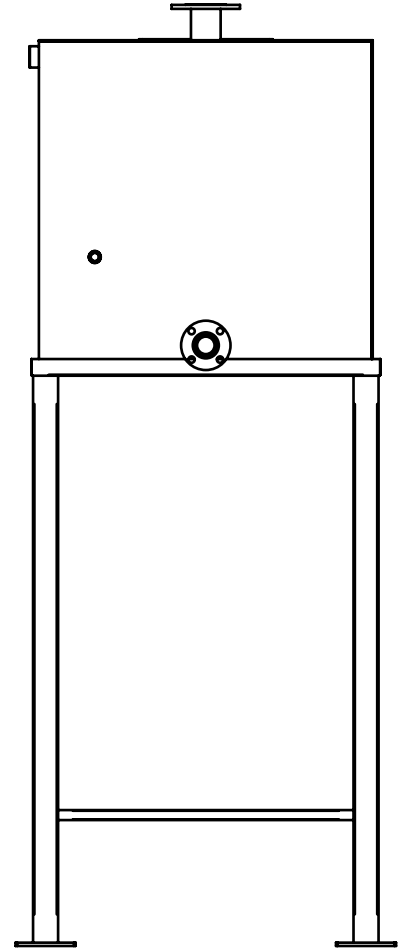
CUBIC TANK - 1000mm

TOTAL CAPACITY 1000 L
CONNECTION OPTIONS Flanged, BSP

FWT-1750

CUBIC TANK - 1200mm

TOTAL CAPACITY 1750 L
CONNECTION OPTIONS Flanged, BSP



BLOW DOWN

Our Australian Made Blow Down Vessel is built from heavy-duty carbon steel with reinforcing wear plates to extend the unit's service life. With options for various connections and sensors included on all units, our Blow Down Vessel range is suited to single and modular boiler systems of various sizes.

Each vessel includes a flanged inspection socket, male threaded main inlet point, flanged ventilation pipe mount and finished in a high-temperature gloss enamel.

BDV-300

BLOW DOWN VESSEL 300mm N.B.

SUITS BOILERS up to 150kW
CONNECTION OPTIONS BSP

BDV-450

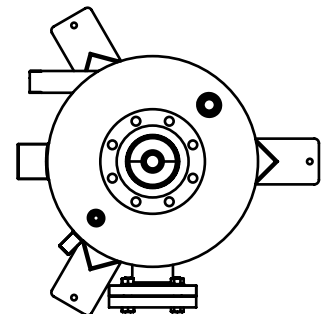
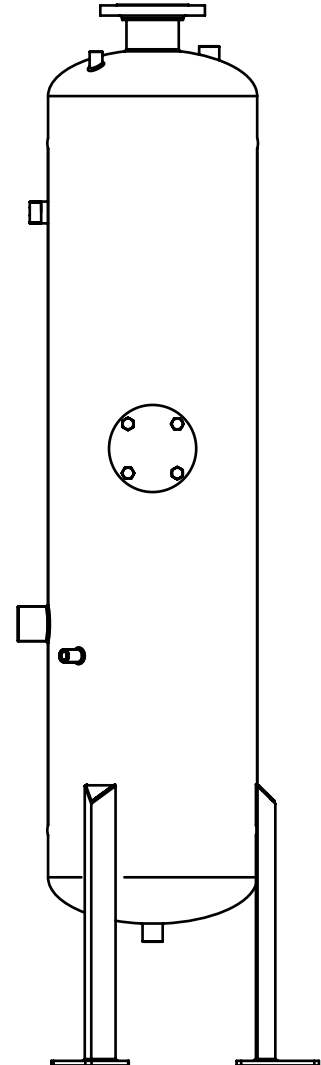
BLOW DOWN VESSEL 450mm N.B.

SUITS BOILERS 300kW - 500kW
CONNECTION OPTIONS BSP

BDV-600

BLOW DOWN VESSEL 600mm N.B.

SUITS BOILERS 500kW Modular
CONNECTION OPTIONS BSP



SERVICE AND INSTALLATION

Our service technicians and boilermakers are trained in precise, cost-effective installations of Steam Boiler, Steam Line, Condensate Line and In-Line Ancillaries.

We service a variety of Steam Boilers of all makes and models, and offer Quarterly maintenance, Annual Strip-Down for prescribed inspections, and a comprehensive emergency call-out service.



Quarterly Service

We service a huge variety of Steam Boilers of all makes and models. Quarterly maintenance is essential for compliance, efficiency and safe operation of your Boiler. Our service includes replacement hot-side safety components and key performance tests.

Boiler Installation & Commissioning

With a wealth of experience in Boiler Installations including market-leading food and beverage manufacturers, chemical manufacturers, waste disposal services and sanitation industry leaders, our team has the skills and experience to scope and implement safe, effective, efficient and functional Steam Boiler Installations.

In-Line Ancillaries

Whether your system requires steam traps, steam filters or a complete ring-main upgrade complete with pressure reduction stations, our Steam Line Installation team is known for immaculate pipe work and precise pressure delivery.

Annual Strip-Down Inspection

Our annual Steam Boiler Strip-Down and Inspection service is designed to ensure your Steam Boiler is safe, legal and compliant. We clean and recondition critical safety components before arranging independent third-party inspection and certification.

Emergency Call-Out

Our Emergency call-out service offers rapid expert intervention during unexpected boiler breakdowns or malfunctions. Our fast response times combined with expert diagnostics ensure minimal disruption to your operations, helping you get back on track promptly.

Equipment Hook-Up

Our team is experienced in connecting a variety of equipment to steam and condensate. From pasteurization equipment to brewhouse kettles, steam ovens to adhesive production lines, we have the experience to accurately follow engineering plans and find innovative solutions where required.





CONCEPT

BOILER SYSTEMS

email

sales@conceptboilersystems.com.au

phone

03 9729 9122
0408 367 913

address

1/4 Elsum Ave, Bayswater North VIC 3153

