

**PRESHA**  
QUALITY AUSTRALIAN MADE BOILERS

# PRESHA

Vertical Tubeless Boilers



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CONSOLIDATED  
**FIRE & STEAM**

# Vertical Tubeless Boilers

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Consolidated Fire & Steam manufacture a range of Presha Vertical tubeless steam boilers. Presha boilers are Australian made and designed. 4 pass flue gas design provides high efficiency, lower fuel costs. Option of flue gas economiser.

The Presha VT series Vertical tubeless boiler is a robust design, no internal tubes water tubes. Burner is located at a convenient height for operation and maintenance. Consolidated Fire & Steam manufacture their own boiler control panels which are factory tested on the boilers prior to delivery.

## Design Codes - Unattended

- The Presha range of steam boilers are designed and manufactured to AS 1228 and meets the requirements of AS2593 Table 1.1 for unattended operation.

## Four Pass Flue Gas Design

- Firing into the top of the furnace forcing the heat to exit at the bottom, creates a scrubbing action against the natural gas flow.
- The gas entering the furnace is cooled in the furnace, completely surrounded by water.
- No refractory, wet back style furnace.
- The gases then travel around the outside of the water Jacket, which has extended fins to recover the energy. This involves the gases travelling up through the fins. Turning 180 degree Down again to the bottom, turning 180 degree then returning to the top where the gas exits the boiler thru the stack.

## High Water Content = Stored Energy

- Presha range of Vertical tubeless boilers has a large water content.
- This is stored energy which is available to handles fluctuating steam load.
- Large steam surface allows for dry steam release.
- Dryer steam is higher in available energy for your process.
- Dryer steam reduces unnecessary wear and tear on downstream equipment.



## Long Life

- Vertical steam boilers are robust in design and operation.
- Water level probes are fitted directly into the boiler. No external chambers.
- Large water content assist with cooler, stable steel temperature during operation.
- Vertical surfaces inside the boiler assist with oxygen release.
- 75mm of insulation and stainless steel cladding, ensures low surface temperatures.
- Grundfos pumps, highest quality fitting are supplied to ensure reliability.
- Gas burners are very quite in operation.



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## Inspection & Maintenance

- The burner is located at a convenient height of the floor.
- Access to the water side of inspection is via top and bottom doors.
- Bottom door allow for complete inspection and cleaning as required.
- Top door allows for complete inspection of the steam space and furnace top.

## Installation

- Compact foot print.
- Boiler can be handled either by crane or fork lift.
- Easy to move around and in to position on site via a pallet truck.
- Boiler is fully wired and fitted out ready to connect to services.
- Electrical control panel is manufactured by Consolidated Fire & Steam.
- Factory fitted and tested prior to delivery.
- Ensures quick start up time on site.
- Gas burners are very quite in operation.



## Service & Support

- CFS offer turnkey solutions for all our products.
- Design and installation options available.
- Maintenance contracts.
- Servicing in accordance with AS2593 table 1.1
- Annual boiler inspection in accordance with AS3788.
- CFS Technicians are factory trained.
- Steam system and steam trap maintenance.
- CFS manufactures a range of ancillaries for steam systems.

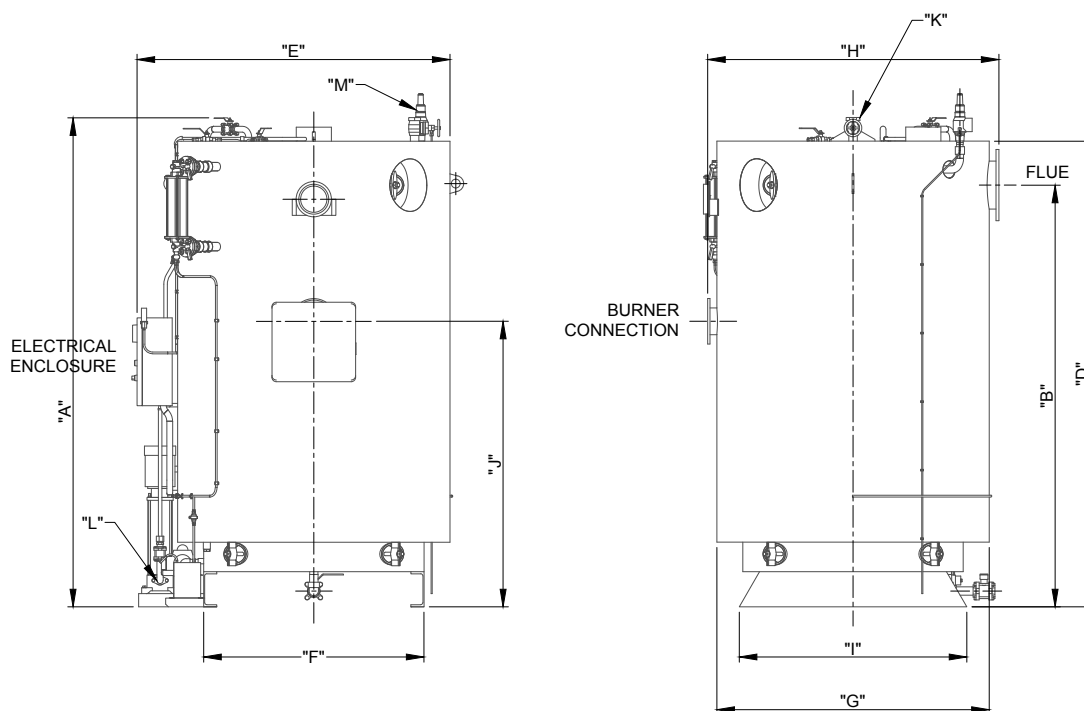
## Products Available

- Compact foot print.
- If you have a special requirement from standard please ask.
- Stainless steel flues are available.
- Feed tanks and blow down tanks are available.
- Chemical dosing systems are available.
- Consolidated Fire & steam carry spare parts stocked for boilers as well as a service team that carry a range of spare parts for the boilers.



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MODEL	VT100	VT150	VT200	VT250	VT300	VT400	VT500
OUTPUT CAPACITY kW	100	150	200	250	300	400	500
EVAPORATION F&A 100°C kg/hr	160	240	320	400	480	640	800
INPUT MJ/HR	450	675	900	1125	1350	1800	2250
OVERALL HEIGHT "A" mm	1820	2083	2213	2548	2638	2538	2838
FLUE HEIGHT "B" mm	1440	1710	1840	2110	2200	2100	2400
FLUE DIAMETER "C" mm	150	150	150	200	200	250	250
CASE HEIGHT "D" mm	1600	1870	2000	2310	2400	2300	2600
OVERALL WIDTH "E" mm	1245	1245	1245	1330	1330	1716.5	1716.5
SKID WIDTH "F" mm	782	782	782	868	868	1254	1254
CASE WIDTH "G" mm	988	988	988	1088	1088	1474	1474
OVERALL LENGTH (no burner) "H" mm	1167	1167	1167	1271	1270	1657	1657
SKID LENGTH "I" mm	725	725	725	825	825	1089	1089
BURNER HEIGHT "J" mm	800	1027	1157	1372	1462	1362	1662
MAIN STEAM VALVE "K" mm	20	25	25	32	32	40	50
FEED WATER INLET "L" mm	20	20	25	25	25	25	25
SAFETY VALVE "M" mm	20	20	20	20	20	25	32
BLOWDOWN VALVE "N" mm	20	25	25	25	25	40	40

Consolidated Fire & Steam reserves the right to change the specifications of its products without prior notice in the interests of ongoing product improvement.



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