

hurlcon

bulk hot water systems



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It took little more than a decade for Hurlcon gas boilers to become the dominant force in the swimming pool and spa heating market. Now that technology is available for commercial bulk hot water applications. Hurlcon's success is built on two key factors. They are amazingly reliable and they offer great value for money.

Safety and Reliability.

Technologies include:

- All copper, double row heat exchanger.
- Bronze headers with brass sensor pockets
- Corrosion resistant stainless steel burners.
- Weather-proof balanced flue.
- Fully powder coated cabinet
- Powder coated flue terminal.
- Hot surface intermittent pilot.
- Built-in flow-switch

- Built-in pump run-on timer.

- Manual reset high limit.

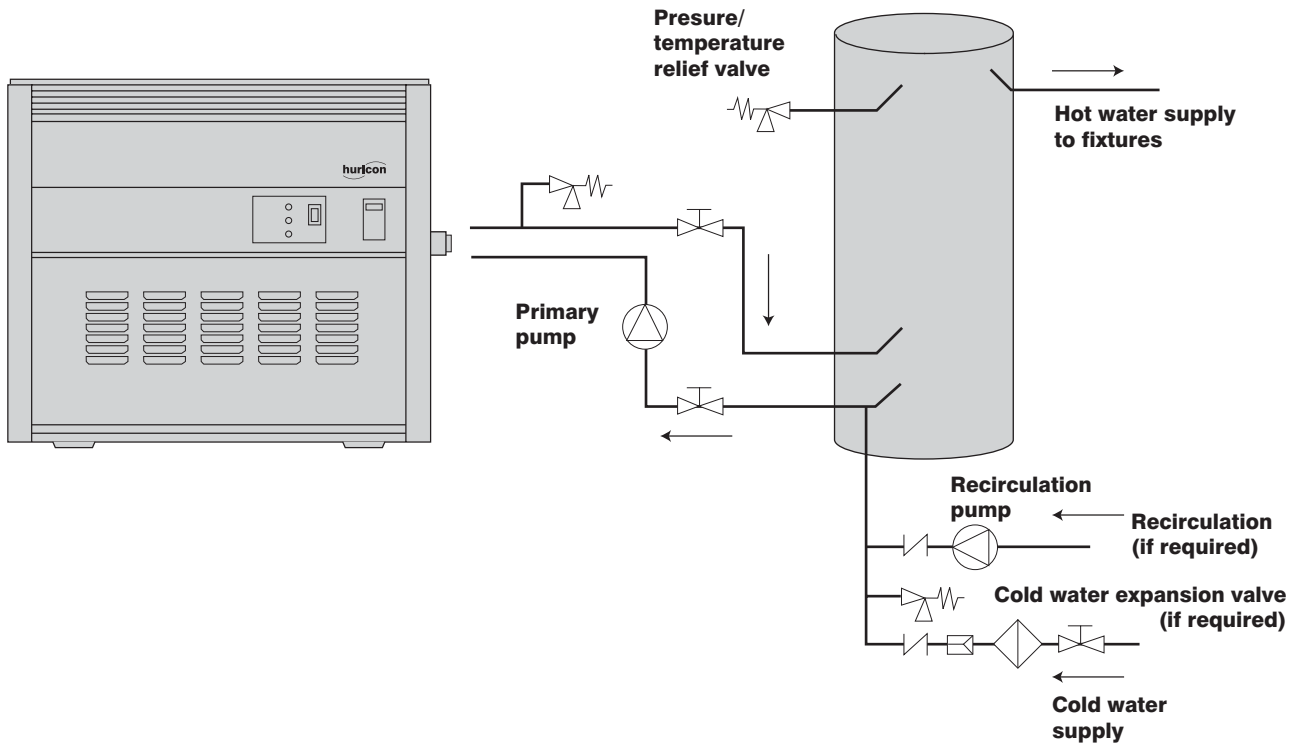
- Grundfos Bronze Circulator 240 VAC pump.

And a choice of a mild steel, double glass lined tank or a range of stainless steel tanks.

Value for Money.

Lower operating costs from:

- Set and Flow temperature displays.
- Electronic ignition.
- Counter-flow heat exchanger.
- Low-profile stainless steel burners.



	Water System	Natural Gas	Propane Gas
Maximum Water Pressure	800 kPa		
Minimum Water Pressure	100 kPa		
Maximum Operating Temperature	90 Degrees Celsius		
Minimum Gas Supply Pressure		1.1 kPa	2.75 kPa
Maximum Gas Supply Pressure		3.5 kPa	3.50 kPa
Burner Operating Pressure		0.8 kPa	2.62 kPa

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The Hurlcon Bulk Hot Water Systems are ideal for a number of commercial applications. To get the best results the systems need to be conservatively matched to easily meet the workload. Here are a few rules of thumb calculated by adding the hourly recovery rate to 80% of the storage tank capacity.

For dwellings such as hotels, motels, apartment blocks and holiday units:

- Assume 100% occupation and a water temp of 60° C.

- Assume a usage of 20 litres per person over the peak hour.
- If 50 guests require 1000 litres @ 50° C then the BHW250+42 with 420 tank is the best option.
- But be sure to include the demands from the kitchens and laundries.

Gyms and sporting clubs may have different requirements:

- A soccer club may have 2 fields and 4 teams of 15 players.
- Usage might be 20 litres per person over 30 minutes.
- 60 x 20 + 1200 litres.

- A BHW500+60 with 600 litres tank would meet that need.

Restaurant temperatures are often higher and over a longer period:

- Water requirements can be 82° C over 1-2 hours.
- Allow 5.5 litres per meal to include cooking and washing up.
- If 150 meals are served over 2 hours, that's 75 per hour.
- At 5.5 litres, that's 413 litres per hour.
- The BHW100+42 would suit.

System Performance Chart Using 420 Litre Tank.

Model	Boiler	Tank	Pump	50° C Rise		65° C Rise	
				Recovery Litres/hr	Delivery in first hour	Recovery Litres/hr	Delivery in first hour
BHW100+42	HB100	420L	UPS 25-60B	431	767	332	668
BHW150+42	HB150	420L	UPS 25-60B	603	939	464	800
BHW200+42	HB200	420L	UPS 25-60B	741	1077	570	906
BHW250+42	HB250	420L	UPS 32-80B	948	1284	729	1065
BHW300+42	HB300	420L	UPS 32-80B	1103	1439	849	1185
BHW400+42	HB400	420L	UPS 32-80B	1379	1715	1061	1397
BHW500+42	HB500	420L	UPS 32-80B	1879	2215	1446	1782

Hurlcon HB Boiler Flow Rates in Litres per Hour.

Model	Boiler	Tank	Temp Rise	Temp Rise					
				30°	40°	50°	60°	70°	80°
HB100	100MJ/hr	25kW	125mm Flue	717	538	430	358	307	269
HB150	147MJ/hr	35kW	125mm Flue	1004	753	602	502	430	376
HB200	185MJ/hr	43kW	150mm Flue	1233	925	740	616	528	462
HB250	240MJ/hr	55kW	175mm Flue	1577	1183	946	789	676	591
HB300	285MJ/hr	64kW	200mm Flue	1835	1376	1101	918	786	688
HB400	355MJ/hr	80kW	250mm Flue	2294	1720	1376	1147	983	860
HB500	485MJ/hr	109kW	300mm Flue	3125	2344	1875	1563	1339	1172

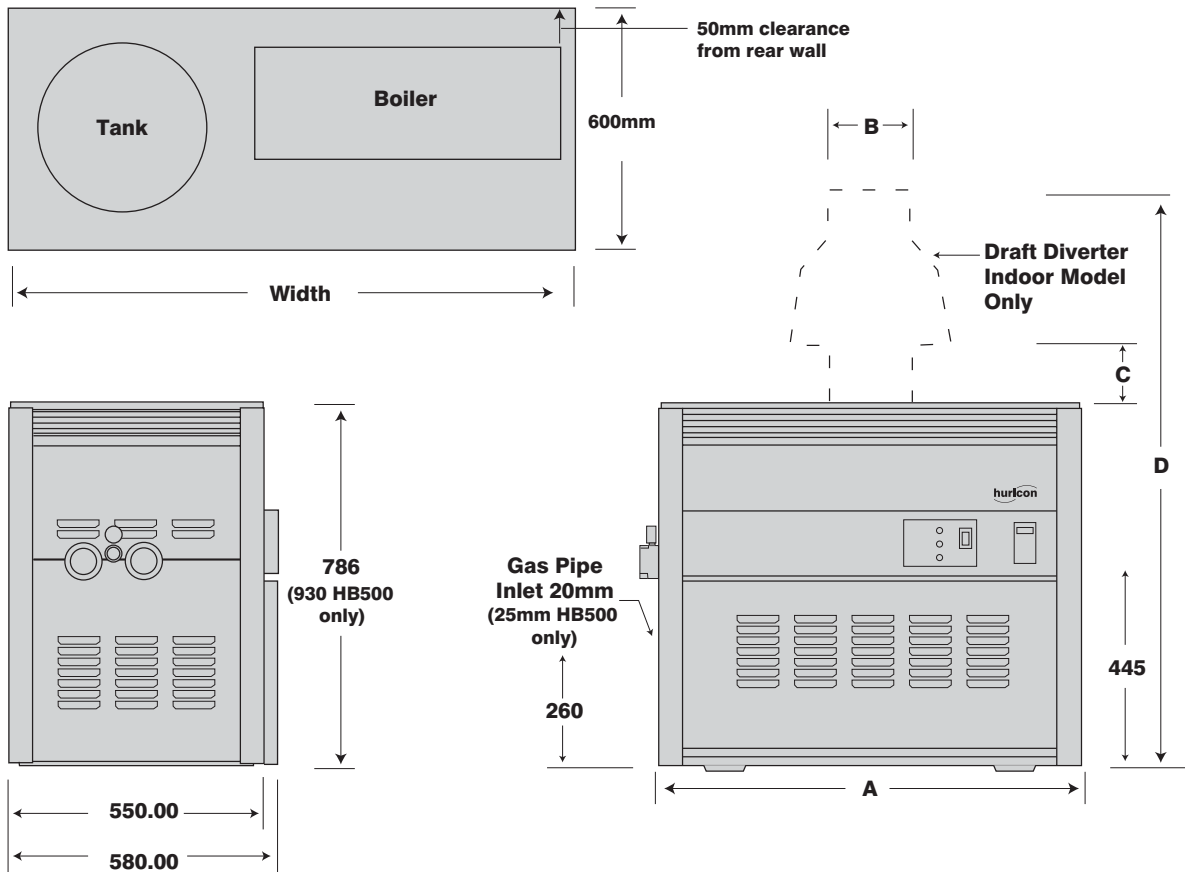
Storage Tank Specifications.

Model	Capacity	Height	Diameter	Weight	Supply kPa	Maximum Working Pressure
HMS400	Mild Steel Double glass lined	420	1670	650	?	?
HSS400	Stainless Steel	410	1950	660	115	560
HSS650	Stainless Steel	659	1640	880	140	560
HSS800	Stainless Steel	801	1940	880	159	560
HSS1000	Stainless Steel	1037	2440	880	182	560

Please check & confirm calculations before committing to a boiler capacity.

To download sample tender specifications on any hurlcon product, visit the website at www.hurlcon.com.au

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System Dimensions.

Model	System Footprint Depth [D] x Width [W]	Boiler Dimensions		A	B	C	D
		Width	Height				
BHW100	600 x 1370	500	786	370	125	405	1515
BHW150	600 x 1460	550	786	460	150	405	1515
BHW200	600 x 1640	545	786	640	175	405	1515
BHW250	600 x 1710	545	786	710	175	405	1515
BHW300	600 x 1775	545	786	775	200	410	1540
BHW400	600 x 1910	545	786	910	250	515	1710
BHW500	600 x 2100	545	930	1100	305	695	2110

Due to our policy of continuous improvement, we reserve the right to change specifications without notice.

Available from:



Order Free Fax 1800 635 781 or
sales@hurlcon.com.au

Victorian Office:
Ph: 03 9765 9765
Fax: 03 9764 9009

NSW Office:
Ph: 02 9674 8544
Fax: 02 9674 8522

Queensland Office:
Ph: 07 3393 3233
Fax: 07 3393 3255

South Australian Office:
Ph: 08 8345 5755
Fax: 08 8345 5211