BLADES
LOW CARBON SYSTEMS LTD
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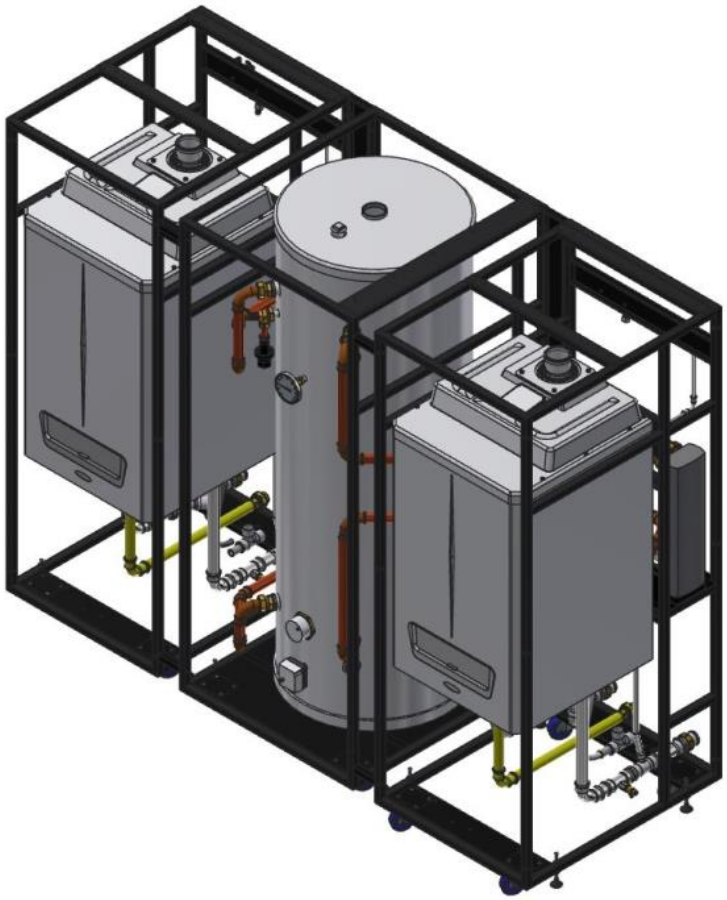
Blade Twin Water Heaters



230/500 MODEL ILLUSTRATED

The Blade Twin Water Heater has been designed to provide an effective solution for delivering hot water to maintain the optimum hot water requirement for large premises.
The twin boiler arrangement gives a high degree of fault tolerance as a single boiler failure would not curtail the hot water service. The range of boilers and cylinders allows variable combinations to closely match the hot water demand for the building and services available for each site.
Full technical details and designs would be produced for each site.
This unit can be used with either LPG or Nat Gas boilers and is ideal as a replacement for the traditional hot water and or heating systems.

This range of water heaters can be supplied with 60kW, 80kW, 100kW,140kW,180kW and 230kW outputs from 2 boilers in conjunction with a “500litre cylinder” giving a range of model combinations to suit each site. All models can be supplied with space heating connections.

- Space efficient with reduced cylinder size and high recovery cylinder
- Reduces the risk of legionella with build-in anti-stratification facility
- Suitable for mains pressure systems
- Standardised modular design pre-configured factory assembled and tested prior to delivery to site reduces installation, commissioning and down time.
- The standard module design with uniform connections locations makes replacement of future upgrades very cost effective
- The freestanding self-contained rigid frame format allows Blades to be easily integrated into existing plant rooms during the boiler replacement program.
- 10year warranty and ERP compliant boilers all other component 2 year warranty
- Unique Stainless Steel cylinder with life time warranty comes complete with optional 3kW or 6kW immersion heater
- All major components readily accessible for easy maintenance or future replacement

BLADE TWIN WATER HEATER TECHNICAL DETAILS

	MODEL	60/500	80/500	100/500	140/500	180/500	230/500
Total Boiler Size	kW	60	76	100	140	180	230
Cylinder Capacity	litres	500	500	500	500	500	500
Total Frame Length	mm	1900	1900	2100	2100	2400	2400
Total Frame Width	mm	900	900	900	900	900	900
Total Frame Height	mm	1972	1972	1972	1972	1972	1972
Weight Empty	kgs	287	287	394	394	456	456
Weight Full	kgs	802	802	940	940	1045	1045
SAP/SEDBUK seasonality efficiency 2009	%	89	89	89	89	88.5	88.5
Nat Gas Consumption (max)	m3/hr	6.9	8.26	10.86	14.8	19.54	24.14
LPG Consumption	l/hr	9.9	11.85	15.4	20.8	27.6	34
Heat Up from Cold 10°C	minutes	29.08	23	17.45	12.46	9.69	7.59
Variable Recovery	minutes	*	*	*	*	*	*
Cold Water Connection Copper	mm	42	42	42	42	42	42
Hot Water Connection Copper	mm	42	42	42	42	42	42
DHW Return Connection Copper	mm	28	28	28	28	28	28
Gas Connection Copper	mm	28	28	28	28	28	28
Condensate Connection Plastic	mm	35	35	35	35	35	35
Immersion Heater (back up only)	kW	3	3	3	3	3	3
Total Electrical Consumption	watts	410	410	460	540	930	1010

* Denotes:- once the cylinder is up to operating temperature the cylinder recovery rate is variable dependant on HW draw off and water main temperature

However owing to our progressive heat gain system this recovery rate will be significantly reduced by up to 40% than the heat time quoted.