

## Data sheet

The BMTB is an innovative Solar Assisted - Heat Pump Water Heater coupled with a 130L, 200L or 300L dual vented / unvented duplex stainless steel cylinder.

The BMTB is a great renewable energy option for heating your water. Using natural energy the BMTB is a cost effective and environmentally friendly split system water heater that utilises an externally sited evaporator that works both day and night, all year, whatever the weather providing hot water.



## Features

- Self contained heat pump is integrated into the top of the cylinder
- Designed to work in low ambient temperatures
- Digital staging thermostat allows for continuous readout and preset temperature control
- High pressure control reset
- Dual high and low pressure service ports for service and monitoring
- Long life system with only one moving part
- 25 year warranty on the cylinder

# Data sheet

## Specification

	<b>BMTB 130</b>	<b>BMTB 200</b>	<b>BMTB 300</b>
<b>ELECTRICAL</b>			
Power supply	230 V	230 V	230 V
Frequency	50 Hz	50 Hz	50 Hz
HP thermal power (Max.)	2,000 W	2,000 W	2,000 W
HP electrical input (Avg.)	500 W	500 W	500 W
Element thermal power (Max.)	1,500 W	1,500 W	1,500 W
Element electrical input (Avg.)	1,500 W	1,500 W	1,500 W
Total thermal power (Max.)	3,500 W	3,500 W	3,500 W
Total electrical input (Avg.)	2,000 W	2,000 W	2,000 W
<b>WATER</b>			
Nominal capacity	130 L	200 L	300 L
Target water temperature (Max.)	55°C	55°C	55°C
Operating pressure (Max.)	7 Bar	7 Bar	7 Bar
Operating pressure (Avg.)	3 Bar	3 Bar	3 Bar
Connections (Compression)	22 mm	22 mm	22 mm
Weight (Empty)	83 Kg	106 Kg	146 Kg
Weight (Full)	213 Kg	306 Kg	446 Kg
<b>REFRIGERATION</b>			
Refrigerant charge (R134a)	1.2 Kg	1.2 Kg	1.2 Kg
L.S operating pressure (Max.)	6 Bar	6 Bar	6 Bar
L.S operating pressure (Avg.)	3 Bar	3 Bar	3 Bar
H.S operating pressure (Max.)	28 Bar	28 Bar	28 Bar
H.S operating pressure (Avg.)	12 Bar	12 Bar	12 Bar
Connections (Flare)	3/8 Inch	3/8 Inch	3/8 Inch

## Components

<b>Immersion</b>	Factory fitted 1.5 Kw incoloy element heater and thermal controls Factory fitted 22 Kw high performance auxiliary boiler coil
<b>Cold water</b>	Cold water inlet control kit comprising of 0.3 MPa (3 Bar) pressure reducing valve, 0.6 MPa (6 Bar) pressure relief valve, line strainer, non-return valve, a balance cold water connection, nuts and olives. 0.3 MPa (3 Bar) Expansion vessel
<b>Safety</b>	Factory fitted temperature and pressure relief valve set at 90°C / 0.7 MPa (7 Bar) 15/22 mm Tundish Additional thermostat and thermal cut out
<b>Electrical</b>	22 mm 2 port motorised valve
<b>Refrigeration</b>	2 x 15 M coil refrigeration grade 3/8 " polished copper tube 2 x 15 M coil refrigeration grade 3/8 " amacell class 0 insulation
<b>Fixing</b>	6 x L-shape aluminium wall fixing bracket, 6 x stainless steel fixing screw, 6 x stainless steel M6 bolt, 6 x stainless steel M6 locking nut

# Data sheet

## Dimensions

### TAPPINGS

	<b>BMTB 130</b>	<b>BMTB 200</b>	<b>BMTB 300</b>
10 Refrigeration copper tube entry	1,205 mm	1,595 mm	1,915 mm
9 Refrigeration copper tube exit	1,205 mm	1,595 mm	1,915 mm
8 Hot water outlet	990 mm	1,380 mm	1,720 mm
7 T&P relief valve	798 mm	1,180 mm	1,520 mm
6 Additional thermostat pocket	627 mm	880 mm	880 mm
5 HP sensor cable pocket	527 mm	780 mm	780 mm
4 Auxiliary boiler coil entry	427 mm	680 mm	680 mm
3 Element heater	275 mm	275 mm	275 mm
2 Auxiliary boiler coil exit	180 mm	180 mm	180 mm
1 Cold water inlet	180 mm	180 mm	180 mm

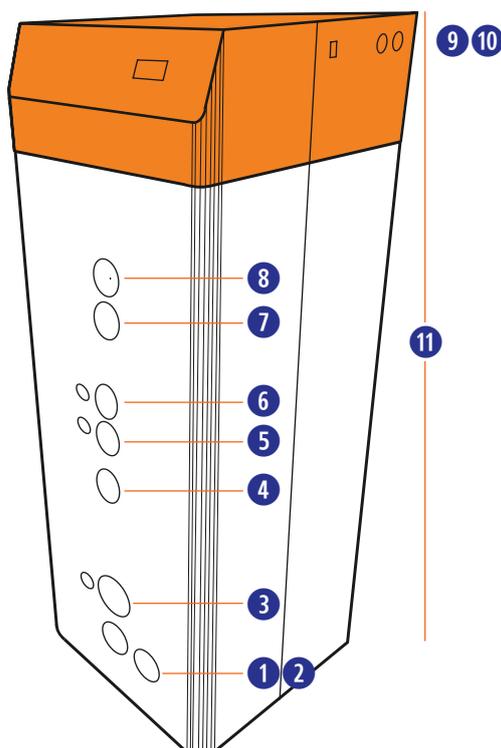
### BMTB

	<b>BMTB 130</b>	<b>BMTB 200</b>	<b>BMTB 300</b>
11 Height	1,290 mm	1,680 mm	2,000 mm
12 Depth	550 mm	600 mm	650 mm
13 Width	550 mm	600 mm	650 mm

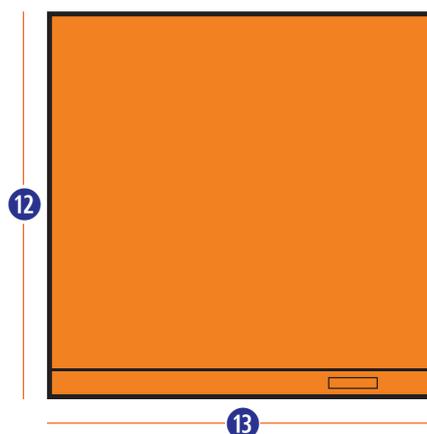
### EVAPORATOR PANEL

	<b>BMTB 130</b>	<b>BMTB 200</b>	<b>BMTB 300</b>
14 Height		1,700 mm	
15 Depth (Single / Double)		25 mm / 100 mm	
16 Width		800 mm	

## Isometric view



## Plan view



### Clearances

front 375 mm  
top 100 mm

A Refrigerant Gas out  
B Refrigerant Liquid in

## Evaporator panel

