
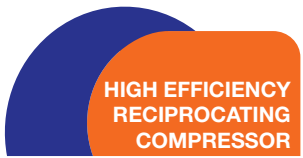






Data sheet

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 utilizes an externally sited evaporator that works both day and night, all year, whatever the weather providing hot water.



 <p>SOLAR PV CONNECTIVITY</p>	 <p>HIGH EFFICIENCY RECIPROCATING COMPRESSOR</p>	 <p>LOW OPERATING NOISE - 41DB(A)</p>
 <p>WITHOUT AIR DUCTS</p>	 <p>UP TO 8.6" OF HIGH DENSITY PUR INSULATION</p>	 <p>AUTOMATIC ANTI LEGIONNAIRES CYCLE</p>

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 cylinder warranty

Data sheet

Specification	BMTB 130	BMTB 200	BMTB 300
ELECTRICAL			
Power supply	220 - 240 V	220 - 240 V	220 - 240 V
Frequency	60 Hz	60 Hz	60 Hz
Fuse size (Min.)	13 A	13 A	13 A
HP thermal power (Max.)	6,800 BTU/hr	6,800 BTU/hr	6,800 BTU/hr
HP electrical input (Avg.)	600 W	600 W	600 W
Element thermal power (Max.)	5,100 BTU/hr	5,100 BTU/hr	5,100 BTU/hr
Element electrical input (Avg.)	1,500 W	1,500 W	1,500 W
Combined thermal power (Max.)	11,900 BTU/hr	11,900 BTU/hr	11,900 BTU/hr
Combined electrical input (Avg.)	2,100 W	2,100 W	2,100 W
WATER			
Nominal capacity	34 gal	52 gal	79 gal
Target water temperature (Max.)	130°F	130°F	130°F
Operating pressure (Max.)	101 psi	101 psi	101 psi
Operating pressure (Avg.)	43 psi	43 psi	43 psi
Connections (Compression)	3/4 "	3/4 "	3/4 "
Weight (Empty)	183 lbs	234 lbs	322 lbs
Weight (Full)	470 lbs	675 lbs	983 lbs
REFRIGERATION			
Refrigerant charge (R134a)	2.6 lbs	2.6 lbs	2.6 lbs
L.S operating pressure (Max.)	87 psi	87 psi	87 psi
L.S operating pressure (Avg.)	43 psi	43 psi	43 psi
H.S operating pressure (Max.)	406 psi	406 psi	406 psi
H.S operating pressure (Avg.)	174 psi	174 psi	174 psi
Connections (Flare)	3/8 "	3/8 "	3/8 "

Components

The following components are supplied as standard with BMTBs

Immersion	Factory fitted 1.5 kW incoloy element heater and thermal controls Factory fitted 22 kW high performance auxiliary boiler coil
Cold water	Cold water inlet control kit comprising of 43 psi pressure reducing valve, 87 psi pressure relief valve, line strainer, non-return valve, a balance cold water connection, nuts and olives. 43 psi Expansion vessel
Safety	Factory fitted temperature and pressure relief valve set at 194°F / 101 psi 1/2 " to 3/4 " Tundish Additional thermostat and thermal cut out
Electrical	3/4 " 2 port motorized valve
Refrigeration	2 x 50 ft coil refrigeration grade 3/8 " polished copper tube 2 x 50 ft coil refrigeration grade 3/8 " armacell class 0 insulation
Fixing	6 x L-shape aluminum 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

BMTB 130

BMTB 200

BMTB 300

TAPPINGS

10	Refrigeration copper tube entry	47.4 "	62.8 "	81.3 "
9	Refrigeration copper tube exit	47.4 "	62.8 "	81.3 "
8	Hot water outlet	39.0 "	54.3 "	67.7 "
7	T&P relief valve	31.8 "	46.5 "	59.8 "
6	Additional thermostat pocket	24.6 "	34.6 "	34.6 "
5	HP sensor cable pocket	20.7 "	30.7 "	30.7 "
4	Auxiliary boiler coil entry	16.8 "	26.8 "	26.8 "
3	Element heater	10.8 "	10.8 "	10.8 "
2	Auxiliary boiler coil exit	7.1 "	7.1 "	7.1 "
1	Cold water inlet	7.1 "	7.1 "	7.1 "

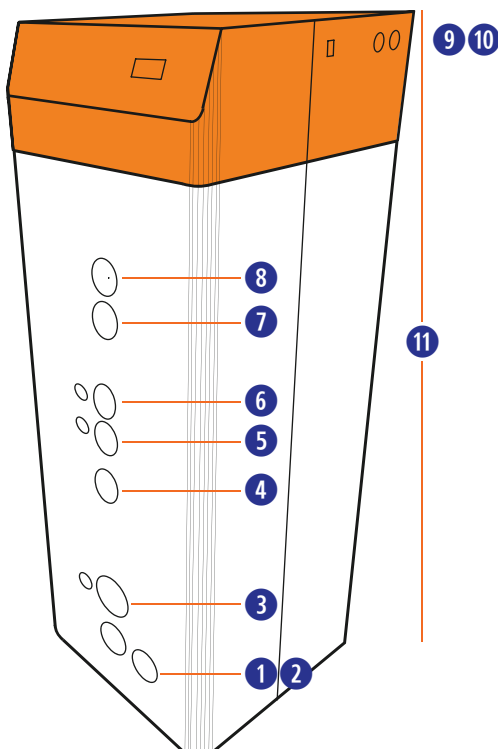
BMTB

11	Height	50.8 "	66.1 "	84.6 "
12	Depth	21.7 "	23.6 "	25.6 "
13	Width	21.7 "	23.6 "	25.6 "

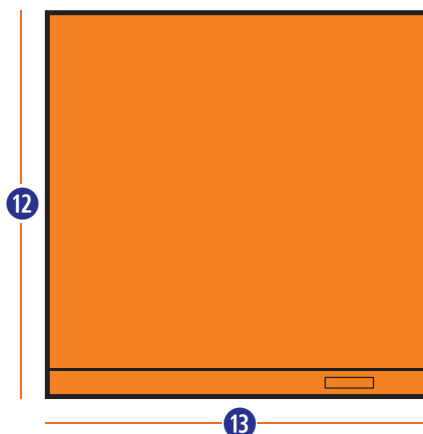
EVAPORATOR PANEL

14	Height	66.9 "
15	Width (Single / Double)	1 " / 4 "
16	Depth	31.5 "

Isometric view



Plan view



Clearances

front 15 "
top 4 "

A Refrigerant Gas out
B Refrigerant Liquid in

Evaporator panel

