

SUNSYSTEM®

WALL HANGING WATER HEATERS



Markets:

- | | | |
|----------|---------------|----------|
| Algeria | Great Britain | Poland |
| Armenia | Greece | Portugal |
| Austria | Hungary | Romania |
| Belarus | Ireland | Russia |
| Belgium | Italy | SAR |
| Bulgaria | Latvia | Serbia |
| Croatia | Lithuania | Slovakia |
| Denmark | Macedonia | Slovenia |
| Estonia | Montenegro | Spain |
| Finland | Morocco | Sweden |
| France | Netherlands | Ukraine |
| Germany | Norway | USA |



THE COMPANY

NES - NEW ENERGY SYSTEMS LTD is manufacturer of appliances utilizing renewable energy sources.

The company was founded in 2002 in Shumen, Bulgaria. The team consists of 200 qualified professionals. NES is housed in its own administrative, storage, and production buildings with overall surface area of 20 000 sq.m. All company activities are govnrned by QC system ISO 9001:2008.

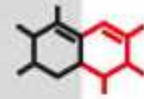
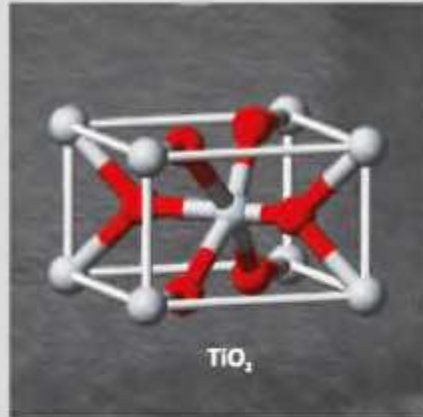
NES production is sold accross Europe, Africa, South America and is constantly broadening its reach.

NES specializes in the design of appliances employing alternative energy sources, such as solar energy, biomass, atmosphere heat thus giving a stake for sparing the energy resources of our planet and minimizing the CO₂emmissions.

PRODUCT PORTFOLIO

- Flat plate solar collectors
- Water heaters
- Buffer tanks
- Biomass burning boilers
- Photovoltaic modules
- Engineering, procurement and construction of photovoltaic plants





Titanium Enamel

Hot water is aggressive to steel. In order to protect the tank of a water heater from corrosion it needs to be separated from the hot water in it. All SUNSYSTEM water tanks are tightly covered with titanium enamel on the inside. It is then baked to produce a smooth and uniform deposition-free glazing. Thus the domestic hot water remains clean, and the water tank is protected from corrosion.



Insulation

The quality of the insulation of a water heater is a key factor for its heat conservation capability and energy efficiency. All SUNSYSTEM wall hanging water heaters are furnished with rigid PU from the global leader in chemical technologies BASF. Elastopor brand polyurethane boasts extremely low thermal conductivity owing to its closed cell structure. In the same time it is harmless to nature as it contains environment friendly foaming agent. Elastopor PU helps conserve heat for a long time and minimize energy consumption.



Renewable energy enabled

Many of the SUNSYSTEM wall-hanging water heaters are renewable energy enabled. They are easily distinguished by the Eurohome symbol. All Eurohome marked appliances employ both indirect and direct heating and may be used with heat derived from renewable energy sources. Go for renewable energy to cut down on your monthly costs for water heating and do your part to help reduce carbon dioxide emissions.

Cathodic protection



The sacrificial anode protectors built in the SUNSYSTEM water heaters provide secondary protection against corrosion of the water tank in all carbon-steel models. The anode protector acts against corrosion in three different ways simultaneously:

- Decreases the electric potential by means of electro-galvanic polarization.
- Creates a protective film on the metal surface and thus protects it from contact with the water.
- Absorbs the oxygen from water, thus rendering it harmless.



Electric heating element and Thermoregulator



All wall-hanging water heaters SUNSYSTEM, whether intended for direct heating or indirect, come in set with electric heater of 2000W or 3000W. The heater's operation is controlled by thermoregulator with independent thermal protection function. The manually adjustable thermostat may be set within the range 30°C-80°C. The built in thermal cut-out breaks the circuit should the water temperature reach 95°C.



Heat Exchangers



All SI and S2 modifications are especially designed to function with external sources of heat from renewable energy. Models MB SI and BB SI are equipped with one coil-type heat exchanger and are thus enabled for indirect water heating using one external heat source. The BB S2 models come with two coils to enable them for indirect heating by means of two external sources – e.g. a solar system and a biomass burning boiler. The BB SIM model is again a unit with two heat exchangers – one coil and one mantle. This smart solution makes it possible to incorporate two heat exchangers in considerably small volumes – starting from 80 l – not having to sacrifice heat exchanger surface and efficiency. All heat exchangers designed by SUNSYSTEM are characterized by high efficiency and low hydraulic resistance to provide for efficient operation.



MB series

**wall-hanging water heaters
for the home**

SUNSYSTEM®
Energy from the sun



**model MB EL
electricity powered**

Easy to operate and compact water heater
For direct electric heating

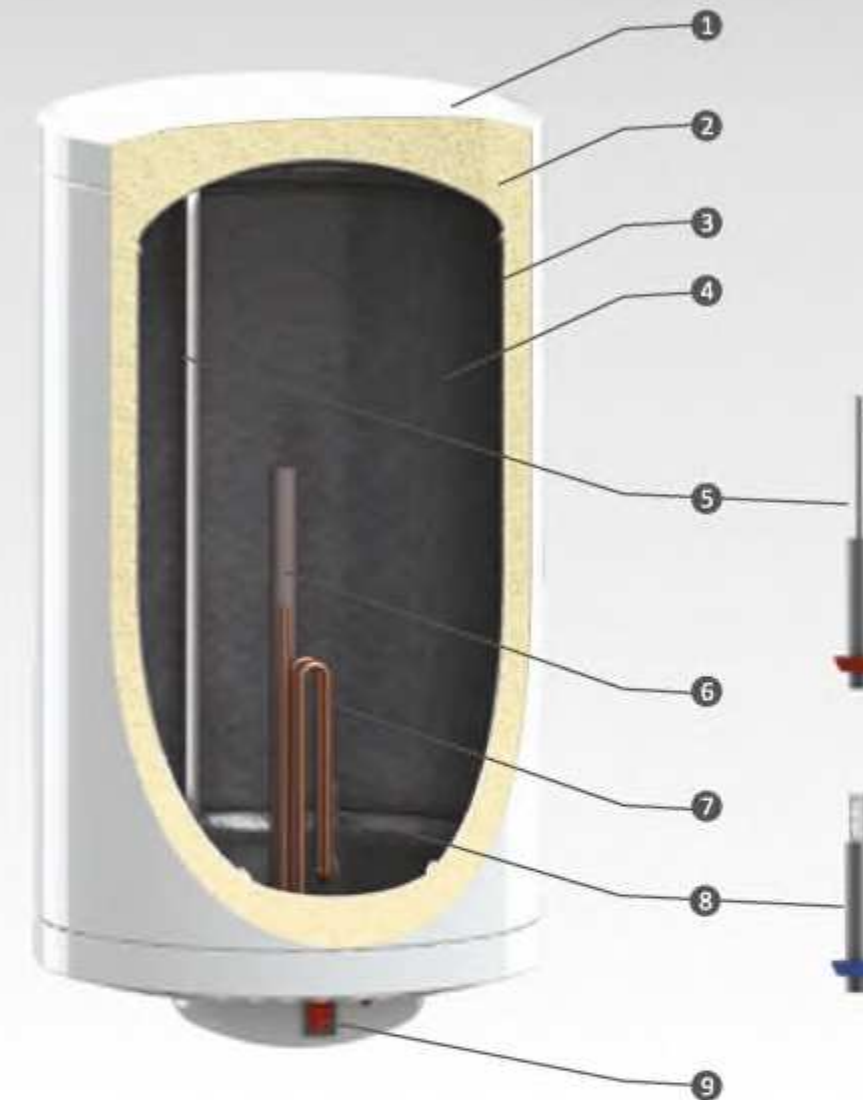
Available variants:

Low-carbon steel tank with titanium enamel (En)	V	80	100	120
	H	80	100	120
Stainless steel tank (CrNi)	V	80	100	120
	H	80	100	120

Go for
RENEWABLE ENERGY!
look for this symbol



**FLAWLESS OPERATION
Guaranteed!**



1. External casing in white
2. High efficiency thermal insulation of environment-friendly rigid PU
3. Water tank of low-carbon steel or stainless steel with wall thickness 2 mm
4. Titanium enamel in accordance with DIN 4753-3 *
5. Stainless tube for hot water
6. Cathodic protection of the tank by means of sacrificial anode protector in accordance with DIN 4753-6*
7. Electric heating element
8. Stratifier mounted on cold water inlet
9. Power on/off button
10. Thermal indicator
11. Dual thermal electric protection

* Not applicable in stainless models

MB series

**wall-hanging water heaters
for the home**

SUNSYSTEM®
Energy from the sun



**model MB S1
with one coil**

MB series water heater with added heat exchanger for indirect heating. Thanks to the built in heat exchanger coil this water heater may employ both electricity and a renewable energy source for water heating.

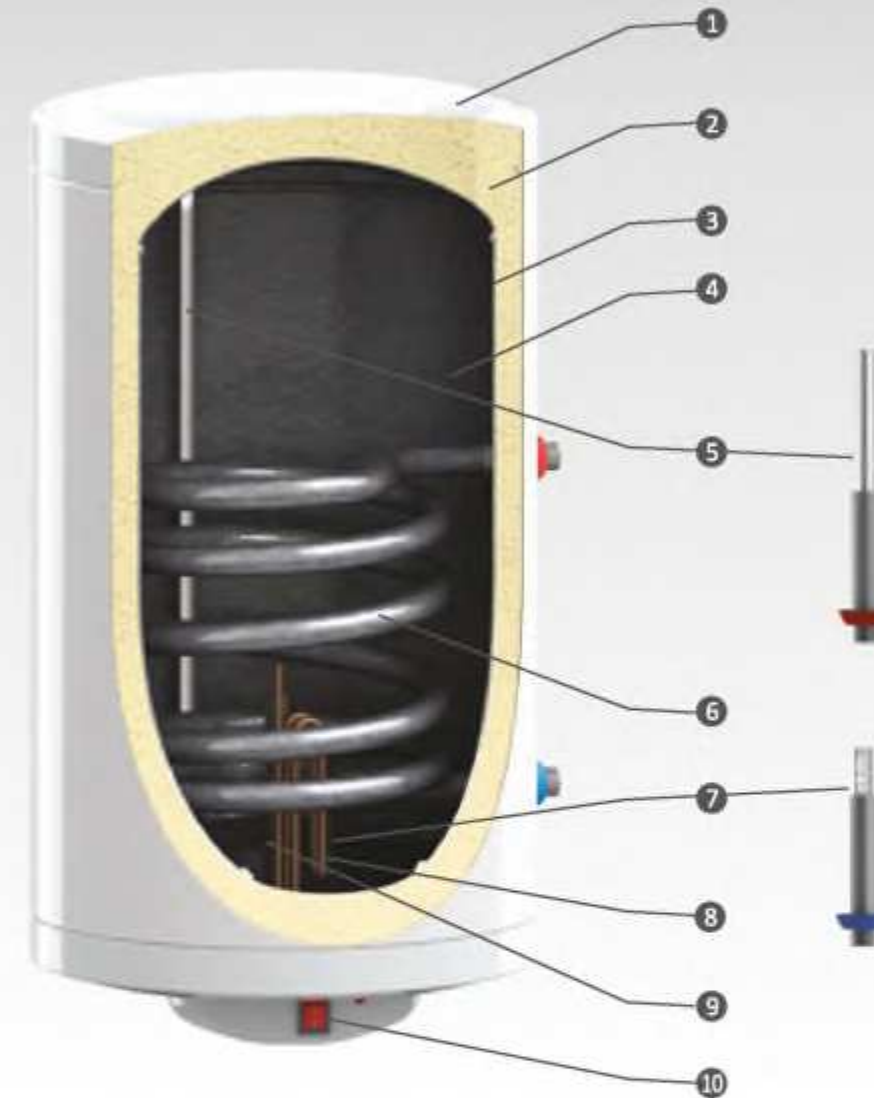
Available variants:

Low-carbon steel tank with titanium enamel (En)	V	80	100	120
	H	80	100	120
Stainless steel tank (CrNi)	V	80	100	120
	H	80	100	120

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2. High efficiency thermal insulation of environment-friendly rigid PU
3. Water tank of low-carbon steel or stainless steel with wall thickness 2 mm
4. Titanium enamel in accordance with DIN 4753-3 *
5. Stainless tube for hot water
6. Heat exchanger coil
7. Stratifier mounted on cold water inlet
8. Electric heating element
9. Cathodic protection of the tank by means of sacrificial anode protector in accordance with DIN 4753-6*
10. Power on/off button
11. Thermal indicator
12. Dual thermal electric protection
13. Safety valve, 8 bar

* Not applicable in stainless models

MB series

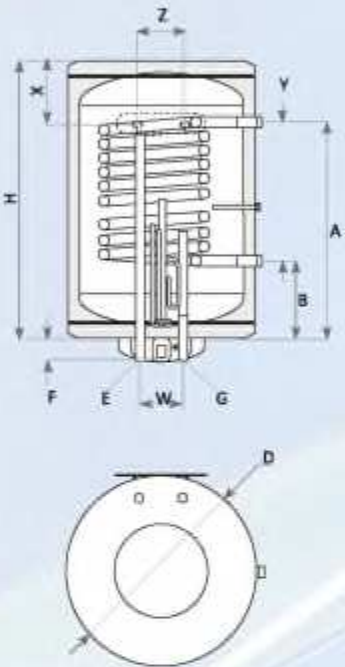
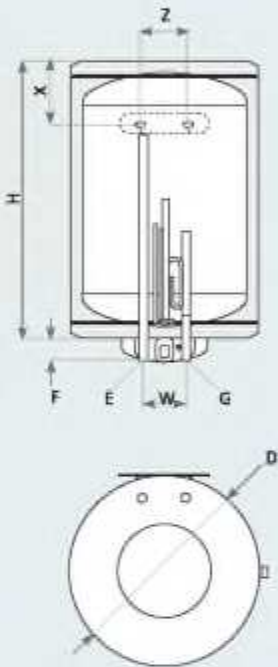
specifications vertical modifications



Model		MB 80 V EL	MB 100 V EL	MB 120 V EL	MB 80 V S1	MB 100 V S1	MB 120 V S1	
Volume	l	80	100	120	80	100	120	
Height / Depth	mm	800/460	960/460	1120/460	800/460	960/460	1120/460	
Diameter D	mm	ø 440	ø 440	ø 440	ø 440	ø 440	ø 440	
Operating pressure/max.temperature	bar/°C	8/95	8/95	8/95	8/95	8/95	8/95	
Testing pressure of tank	bar	13	13	13	13	13	13	
Coil heat exchanger	Coil heat exchanger surface	m ²			0.4	0.53	0.53	
	Coil heat exchanger volume	l			1.04	2.70	2.70	
	Prolonged power according to DIN 4708; 80/60/45 °C	kW m ² /h			8.2 0.20	9 0.22	9 0.22	
	NL – power coefficient at 60°C				1	1.3	1.3	
	Pressure drop Δp	mbar			50	55	55	
	Operating pressure/max.operating temperature of coil	bar/°C				16/110	16/110	16/110
	Testing pressure of coil	bar				25	25	25
Thermal indicator		✓	✓	✓	✓	✓	✓	
Anode protector		✓	✓	✓	✓	✓	✓	
Heating element optional wattage	kW	2/3	2/3	2/3	2/3	2/3	2/3	
Weight	Carbon steel tank w. enamel (En)	kg	55	61	70	63	68	76
	Stainless steel tank (CrNi)	kg	41	46	52	45	58	

MB series

**specifications
vertical modifications**



Model		MB 80	MB 100	MB 120	MB 80	MB 100	MB 120
		V EL	V EL	V EL	V S1	V S1	V S1
Coil outlet	A				RN"/140	RN"/140	RN"/140
Cold water inlet	G	RN"	RN"	RN"	RN"	RN"	RN"
Coil inlet	B				RN"/540	RN"/540	RN"/540
Hot water outlet	E	RN"	RN"	RN"	RN"	RN"	RN"
Dimension F	mm	60	60	60	60	60	60
Dimension H	mm	740	900	1060	740	900	1060
Dimension W	mm	120	120	120	120	120	120
Dimension X	mm	180	180	180	180	180	180
Dimension Y	mm				287	400	400
Dimension Z	mm	240	240	240	240	240	240

MB series

specifications horizontal modifications



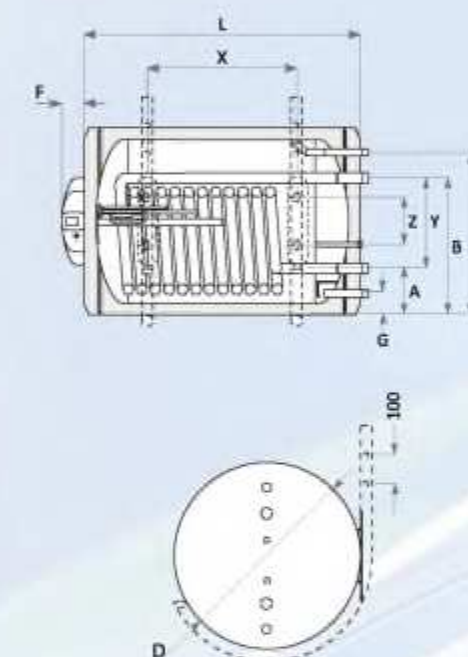
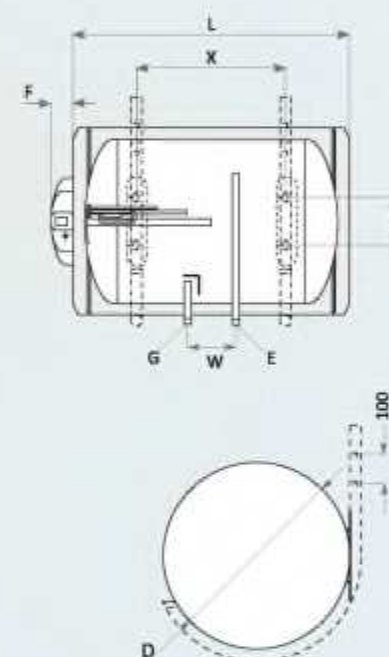
Model		MB 80 H EL	MB 100 H EL	MB 120 H EL	MB 80 H S1	MB 100 H S1	MB 120 H S1	
Volume	l	80	100	120	80	100	120	
Length / Depth	mm	800/460	960/460	1120/460	800/460	960/460	1120/460	
Diameter D	mm	ø 440	ø 440	ø 440	ø 440	ø 440	ø 440	
Operating pressure/max.temperature	bar/°C	8/95	8/95	8/95	8/95	8/95	8/95	
Testing pressure of tank	bar	13	13	13	13	13	13	
Coil heat exchanger surface	m ²				0.4	0.53	0.53	
Coil heat exchanger volume	l				2.04	2.70	2.70	
Prolonged power according to DIN 4708; 80/60/45 °C	kW m ² /h				8.2 0.20	9 0.22	9 0.22	
NL – power coefficient at 60°C					1	1.3	1.3	
Pressure drop Δp	mbar				50	55	55	
Operating pressure/max.operating temperature of coil	bar/°C				16/110	16/110	16/110	
Testing pressure of coil	bar				25	25	25	
Thermal indicator		✓	✓	✓	✓	✓	✓	
Anode protector		✓	✓	✓	✓	✓	✓	
Heating element optional wattage	kW	2/3	2/3	2/3	2/3	2/3	2/3	
Weight	Carbon steel tank w. enamel (En)	kg	55	61	70	63	68	76
	Stainless steel tank (CrNi)	kg	41	46	52	45	58	

Coil heat exchanger

Weight

MB series

**specifications
horizontal modifications**



Model		MB 80	MB 100	MB 120	MB 80	MB 100	MB 120
		H EL	H EL	H EL	H S1	H S1	H S1
Coil outlet	A				RN"/100	RN"/100	RN"/100
Cold water inlet	G	RN"/45	RN"/45	RN"/45	RN"/45	RN"/45	RN"/45
Coil inlet	B				RN"/540	RN"/540	RN"/540
Hot water outlet	E	RN"/395	RN"/395	RN"/395	RN"/395	RN"/395	RN"/395
Dimension F	mm	60	60	60	60	60	60
Dimension L	mm	740	900	1060	740	900	1060
Dimension W	mm	80	80	80			
Dimension X	mm	380	540	700	380	540	700
Dimension Y	mm				250	250	250
Dimension Z	mm	240	240	240	240	240	240

BB series

wall-hanging water heaters
for the home

SUNSYSTEM[®]
Energy from the sun



model BB EL electricity powered

Easy to operate and reliable high efficiency water heater
For direct electric heating

Available variants:

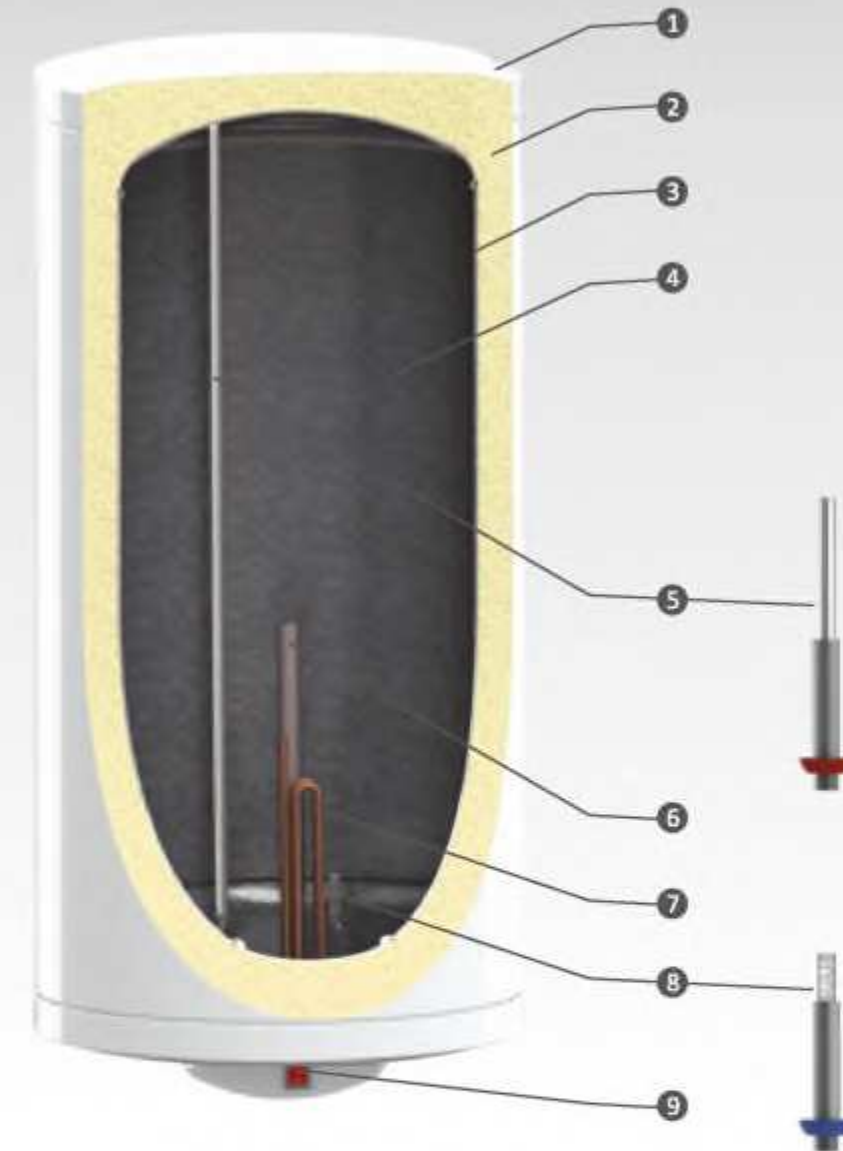
Low-carbon steel tank with titanium enamel (En)	V	80	100	120	150	200
	H	80	100	120	150	200
Stainless steel tank (CrNi)	V	80	100	120	150	200
	H	80	100	120	150	200

Go for
RENEWABLE ENERGY!
look for this symbol



THIS ECO PRODUCT
ALLOWS YOU TO USE
RENEWABLE ENERGY

FLAWLESS OPERATION
Guaranteed!



1. External casing in white
2. High efficiency thermal insulation of environment-friendly rigid PU with thickness 32 mm
3. Water tank of low-carbon steel with wall thickness 2,5 mm or stainless steel with wall thickness 2 mm
4. Titanium enamel in accordance with DIN 4753-3 *
5. Stainless tube for hot water
6. Cathodic protection of the tank by means of sacrificial anode protector in accordance with DIN 4753-6*
7. Electric heating element
8. Stratifier mounted on cold water inlet
9. Power on/off button
10. Thermal indicator
11. Dual thermal electric protection
12. Safety valve, 8 bar

* Not applicable in stainless models

BB series

**wall-hanging water heaters
for the home**

SUNSYSTEM®
Energy from the sun



**model BB S1
with one coil**

BB series water heater with added heat exchanger coil for indirect water heating. Thanks to the built in heat exchanger coil this water heater may employ both electricity and a renewable energy source.

Available variants:

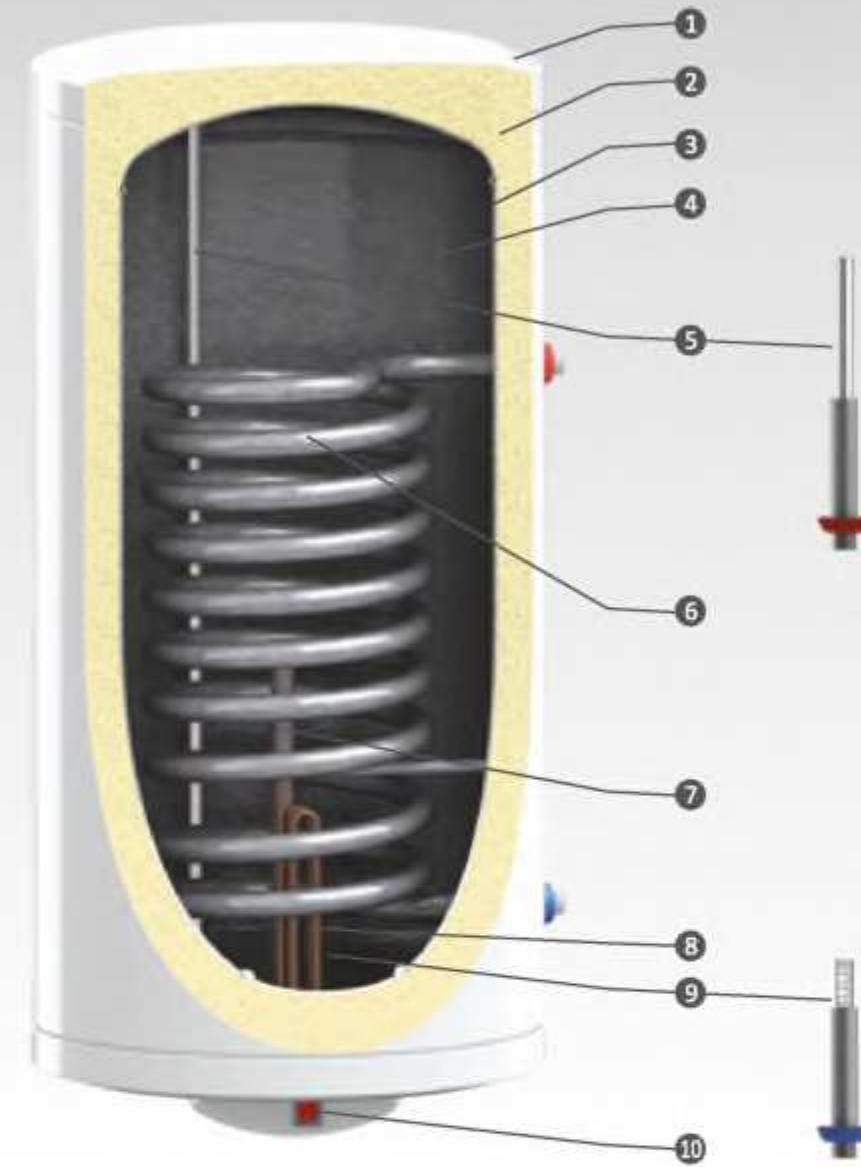
Low-carbon steel tank with titanium enamel (En)	V	80	100	120	150	200
	H	80	100	120	150	200
Stainless steel tank (CrNi)	V	80	100	120	150	200
	H	80	100	120	150	200

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2. High efficiency thermal insulation of environment-friendly rigid PU with thickness 32 mm
3. Water tank of low-carbon steel with wall thickness 2,5 mm or stainless steel with wall thickness 2 mm
4. Titanium enamel in accordance with DIN 4753-3 *
5. Stainless tube for hot water
6. Heat exchanger coil
7. Cathodic protection of the tank by means of sacrificial anode protector in accordance with DIN 4753-6*
8. Electric heating element
9. Stratifier mounted on cold water inlet
10. Power on/off button
11. Thermal indicator
12. Dual thermal electric protection
13. Safety valve, 8 bar

* Not applicable in stainless models

BB series

**wall-hanging water heaters
for the home**

SUNSYSTEM®
Energy from the sun



model BB S2 with two coils

BB series water heater with two coil type heat exchangers for indirect water heating. The availability of two heat exchangers in the tank enables this water heater to use up to two renewable heat sources.

Available variants:

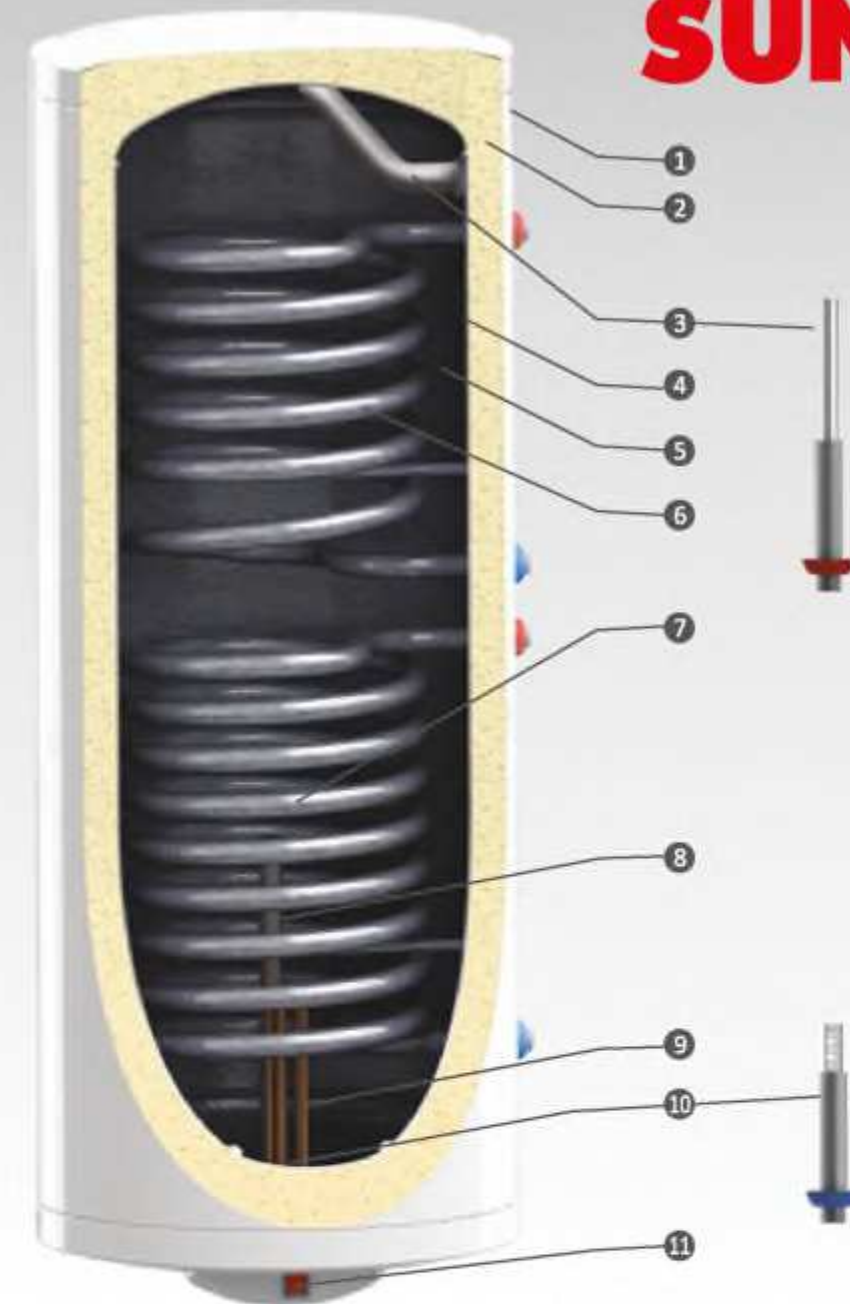
Low-carbon steel tank with titanium enamel (En)	V	120	150	200
	H	120	150	200
Stainless steel tank (CrNi)	V	120	150	200
	H	120	150	200

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**FLAWLESS OPERATION
Guaranteed!**



1. External casing in white
2. High efficiency thermal insulation of environment-friendly rigid PU with thickness 32 mm
3. Stainless tube for hot water
4. Water tank of low-carbon steel with wall thickness 2,5 mm or stainless steel with wall thickness 2 mm
5. Titanium enamel in accordance with DIN 4753-3 *
6. Upper heat exchanger coil
7. Lower heat exchanger coil
8. Cathodic protection of the tank by means of sacrificial anode protector in accordance with DIN 4753-6*
9. Electric heating element
10. Stratifier mounted on cold water inlet
11. Power on/off button
12. Thermal indicator
13. Dual thermal electric protection
14. Safety valve, 8 bar

* Not applicable in stainless models

BB series

**wall-hanging water heaters
for the home**

SUNSYSTEM®
Energy from the sun

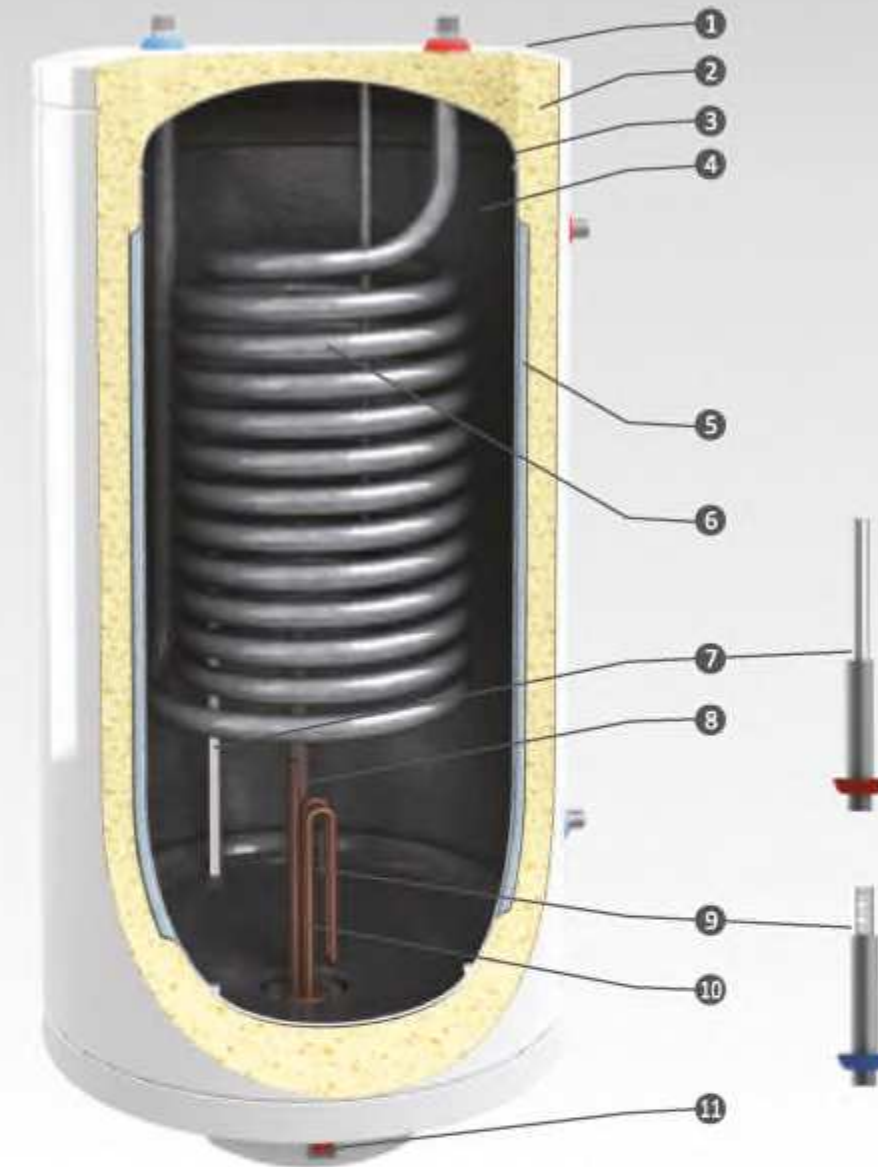


**model BB S1 M
with a coil and a mantle heat exchanger**

BB series water heater with two heat exchangers for indirect water heating. The combination of coil type heat exchanger and a mantle type heat exchanger enables this compact appliance to use up to two renewable heat sources.

Available variants:

Low-carbon steel tank with titanium enamel (En)	V	80	100	120	150	200
	H	80	100	120	150	200
Stainless steel tank (CrNi)	V	80	100	120	150	200
	H	80	100	120	150	200



1. External casing in white
2. High efficiency thermal insulation of environment-friendly rigid PU with thickness 32 mm
3. Water tank of low-carbon steel with wall thickness 2,5 mm
4. Titanium enamel in accordance with DIN 4753-3
5. Heat exchanger mantle
6. Heat exchanger coil
7. Stainless tube for hot water
8. Cathodic protection of the tank by means of sacrificial anode protector in accordance with DIN 4753-6
9. Stratifier mounted on cold water inlet
10. Electric heating element
11. Power on/off button
12. Thermal indicator
13. Dual thermal electric protection
14. Safety valve, 8 bar

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**FLAWLESS OPERATION
Guaranteed!**



BB series

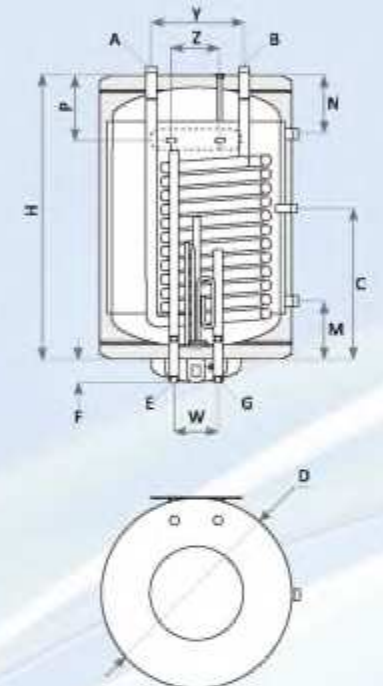
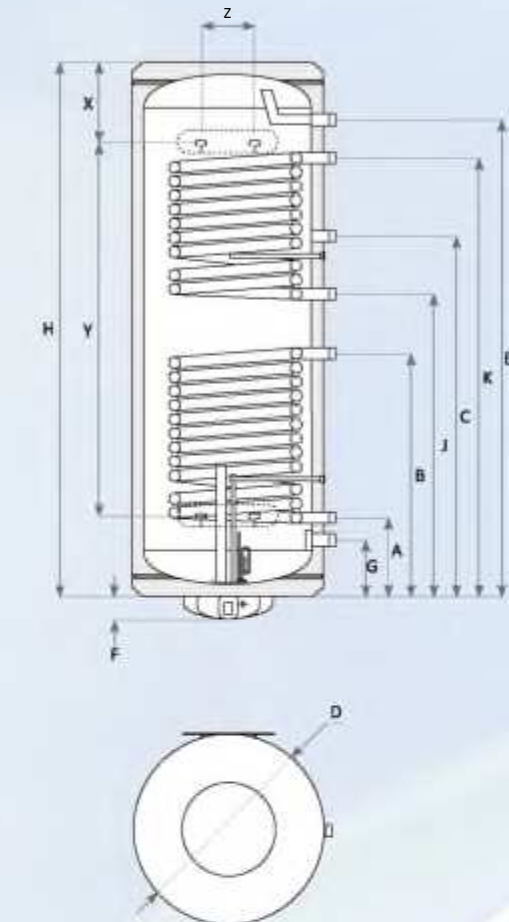
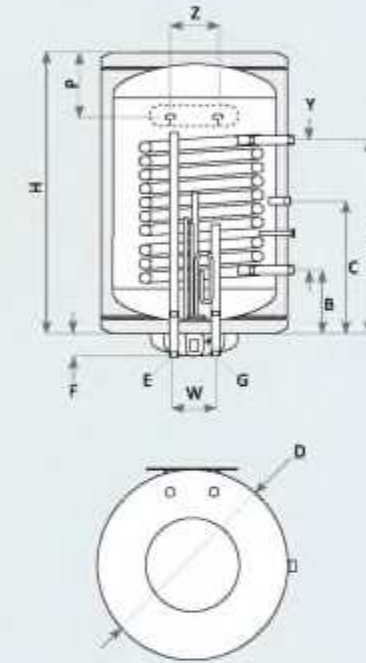
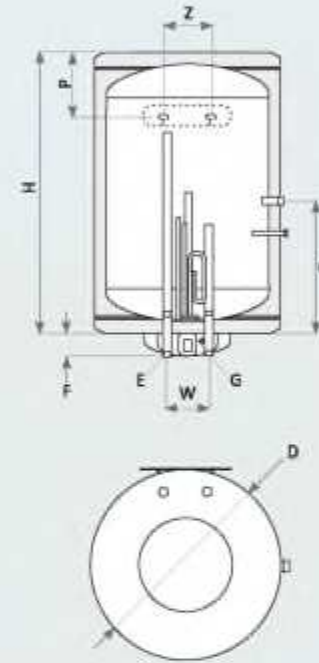
specifications vertical modifications



Model	BB 80 V EL	BB 100 V EL	BB 120 V EL	BB 150 V EL	BB 200 V EL	BB 80 V S1	BB 100 V S1	BB 120 V S1	BB 150 V S1	BB 200 V S1	BB 120 V S2	BB 150 V S2	BB 200 V S2	BB 80 V S1 M	BB 100 V S1 M	BB 120 V S1 M	BB 150 V S1 M	BB 200 V S1 M	
Volume	l	80	100	120	150	200	80	100	120	150	200	120	150	200	80	100	120	150	200
Height / Depth	mm	700/540	830/540	960/540	1100/540	1370/540	700/540	830/540	960/540	1100/540	1370/540	960/540	1100/540	1370/540	700/540	830/540	960/540	1100/540	1370/540
Diameter D	mm	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520
Operating pressure/max.temperature	bar/°C	8/95	8/95	8/95	8/95	8/95	8/95	8/95	8/95	8/95	8/95	8/95	8/95	8/95	8/95	8/95	8/95	8/95	8/95
Testing pressure of tank	bar	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
Lower coil h.exchanger	Coil heat exchanger surface	m²					0.4	0.53	0.53	0.8	0.8	0.4	0.4	0.8	0.4	0.53	0.53	0.8	0.8
	Coil heat exchanger volume	l					2.04	2.70	2.70	4.07	4.07	2.04	2.04	4.07	2.04	2.70	2.70	4.07	4.07
	Prolonged power according to DIN 4708; 80/60/45 °C	kW m³/h					8.2 0.20	9 0.22	9 0.22	15 0.37	15 0.37	8.2 0.20	8.2 0.20	15 0.37	8.2 0.20	9 0.22	9 0.22	15 0.37	15 0.37
	NL – power coefficient at 60°C						1	1.3	1.3	1.5	1.5	1	1	1.5	1	1.3	1.3	1.5	1.5
	Pressure drop Δp	mbar					50	55	55	60	60	50	50	60	50	55	55	60	60
Upper coil h.exchanger	Coil heat exchanger surface	m²									0.4	0.4	0.53						
	Coil heat exchanger volume	l									2.04	2.04	2.70						
	Prolonged power according to DIN 4708; 80/60/45 °C	kW m³/h									8.2 0.20	8.2 0.20	9 0.22						
	NL – power coefficient at 60°C										1	1.5	1.3						
Pressure drop Δp	mbar									50	50	55							
Operating pressure/max.operating temperature of coils	bar/°C						16/110	16/110	16/110	16/110	16/110	16/110	16/110	16/110	16/110	16/110	16/110	16/110	
Testing pressure of coils	bar						25	25	25	25	25	25	25	25	25	25	25	25	
Mantle heat exchanger	Mantle heat exchanger surface	m²												0.46	0.63	0.78	0.94	1.25	
	Mantle heat exchanger volume	l												3.35	4.64	6.72	6.91	9.18	
	Pressure drop Δp	mbar												20	20	20	20	20	
	Operat.pressure/temp. of mantle	bar/°C													1.5/95	1.5/95	1.5/95	1.5/95	1.5/95
	Testing pressure of mantle	bar													3	3	3	3	3
Thermal Indicator		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Anode protector		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Heating element optional wattage	kW	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	
Weight	Carbon steel tank w. enamel (En)	kg	55	61	70	80	84	63	70	80	90	98		106	72	86	98	108	120
	Stainless steel tank (CrNi)	kg			41			45			58	71		66					76

BB series

**specifications
vertical modifications**



Model	BB 80 V EL	BB 100 V EL	BB 120 V EL	BB 150 V EL	BB 200 V EL	BB 80 V S1	BB 100 V S1	BB 120 V S1	BB 150 V S1	BB 200 V S1	BB 120 V S2	BB 150 V S2	BB 200 V S2	BB 80 V S1 M	BB 100 V S1 M	BB 120 V S1 M	BB 150 V S1 M	BB 200 V S1 M	
Lower coil outlet	A					RN*/165	RN*/165	RN*/165	RN*/165	RN*/215	RN*/165	RN*/165	RN*/215	RN*	RN*	RN*	RN*	RN*	
Cold water inlet	G	RX*	RX*	RX*	RX*	RN*/150	RX*	RX*	RX*	RX*	RN*/150	RX*	RX*	RX*	RX*	RX*	RX*	RX*	RN*/150
Lower coil inlet	B					RN*/451	RN*/565	RN*/565	RN*/717	RN*/653	RN*/381	RN*/381	RN*/653	RN*	RN*	RN*	RN*	RN*	
Upper coil outlet	J										RN*/441	RN*/441	RN*/733						
Mantle outlet	M													RX*/195	RX*/200	RX*/215	RX*/230	RX*/260	
Recirculation	C					RN*/883				RN*/553									RN*/553
Mantle inlet	N													RX*/195	RX*/200	RX*/215	RX*/230	RX*/260	
Upper coil inlet	K										RN*/657	RN*/657	RN*/1095						
Hot water outlet	E	RX*	RX*	RX*	RX*	RN*/1155	RX*	RX*	RX*	RX*	RN*/1155	RX*	RX*	RX*	RX*	RX*	RX*	RX*	RN*/1155
Dimension F	mm	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Dimension H	mm	640	770	900	1040	1310	640	770	900	1040	1310	900	1040	1310	640	770	900	1040	1310
Dimension P	mm	230	230	255	270		230	230	255	270		230	255	270		240	240	240	240
Dimension W	mm	120	120	120	120		120	120	120	120		120	120	120	120	120	120	120	120
Dimension Y	mm						250	250	250	250		200	200	220	250	250	250	250	250
Dimension Z	mm	240	240	240	240	240	240	240	240	240		630	900	240	240	240	240	240	240

BB series

specifications horizontal modifications



Model		BB 80 H EL	BB 100 H EL	BB 120 H EL	BB 150 H EL	BB 200 H EL	BB 80 H S1	BB 100 H S1	BB 120 H S1	BB 150 H S1	BB 200 H S1	BB 80 H S1 M	BB 100 H S1 M	BB 120 H S1 M	BB 150 H S1 M	BB 200 H S1 M
Volume	l	80	100	120	150	200	80	100	120	150	200	80	100	120	150	200
Length / Depth	mm	700/540	830/540	960/540	1100/540	1370/540	700/540	830/540	960/540	1100/540	1370/540	700/540	830/540	960/540	1100/540	1370/540
Diameter D	mm	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520	ø 520
Operating pressure/max.temperature	bar/°C	8/95	8/95	8/95	8/95	8/95	8/95	8/95	8/95	8/95	8/95	8/95	8/95	8/95	8/95	8/95
Testing pressure of tank	bar	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
Coil heat exchanger surface	m ²						0.4	0.53	0.53	0.8	0.8	0.4	0.53	0.53	0.8	0.8
Coil heat exchanger volume	l						2.04	2.70	2.70	4.07	4.07	2.04	2.70	2.70	4.07	4.07
Prolonged power according to DIN 4708; 80/60/45 °C	kW m ² /h						8.2 0.20	9 0.22	9 0.22	15 0.37	15 0.37	8.2 0.20	9 0.22	9 0.22	15 0.37	15 0.37
NL -power coefficient at 60°C							1	1.3	1.3	1.5	1.5	1	1.3	1.3	1.5	1.5
Pressure drop Δp	mbar						50	55	55	60	60	50	55	55	60	60
Operating pressure/max. operating temp. of coil	bar/°C						16/110	16/110	16/110	16/110	16/110	16/110	16/110	16/110	16/110	16/110
Testing pressure of coil	bar						25	25	25	25	25	25	25	25	25	25
Mantle heat exchanger surface	m ²											0.46	0.63	0.78	0.94	1.25
Mantle heat exchanger volume	l											3.35	4.64	6.72	6.91	9.18
Pressure drop Δp	mbar											20	20	20	20	20
Operat.pressure/temp. of mantle	bar/°C											1.5/95	1.5/95	1.5/95	1.5/95	1.5/95
Testing pressure of mantle	bar											3	3	3	3	3
Thermal indicator		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Anode protector		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Heating element optional wattage	kW	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3
Carbon steel tank w. enamel (En)	kg	55	61	70	80	84	63	70	80	90	98	72	86	98	108	120
Stainless steel tank (CrNi)	kg	41		52	60		45		58	71						

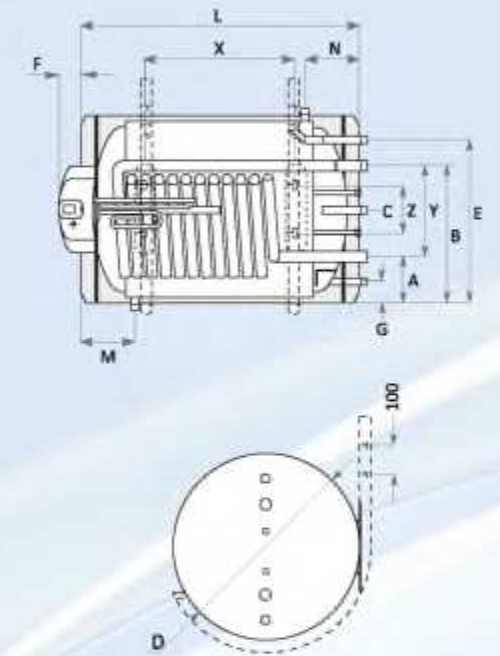
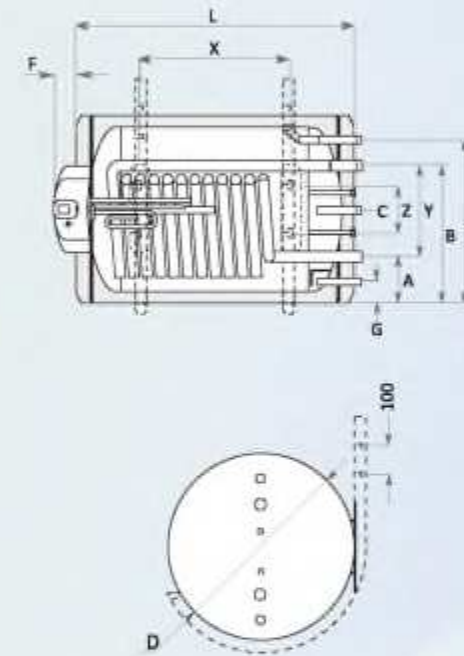
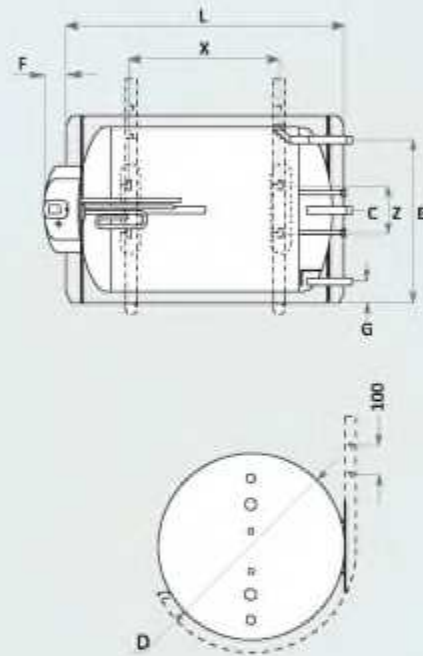
Coil heat exchanger

Mantle heat exchanger

Weight

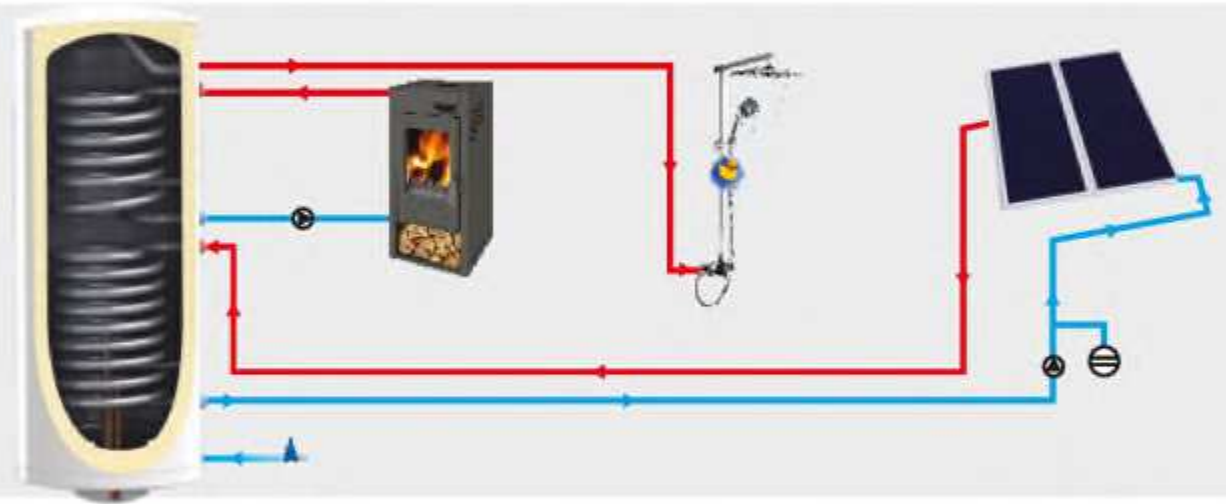
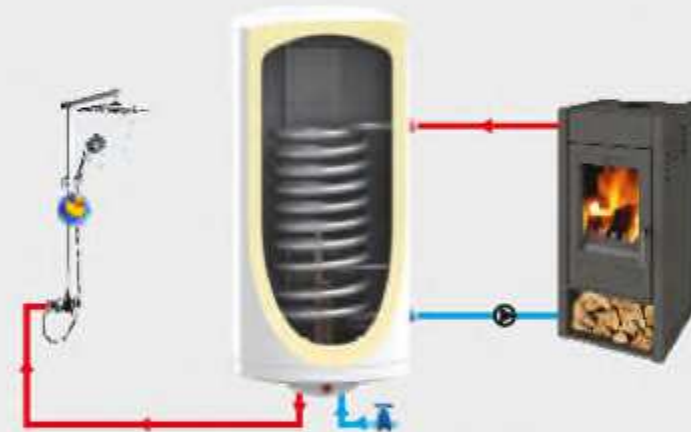
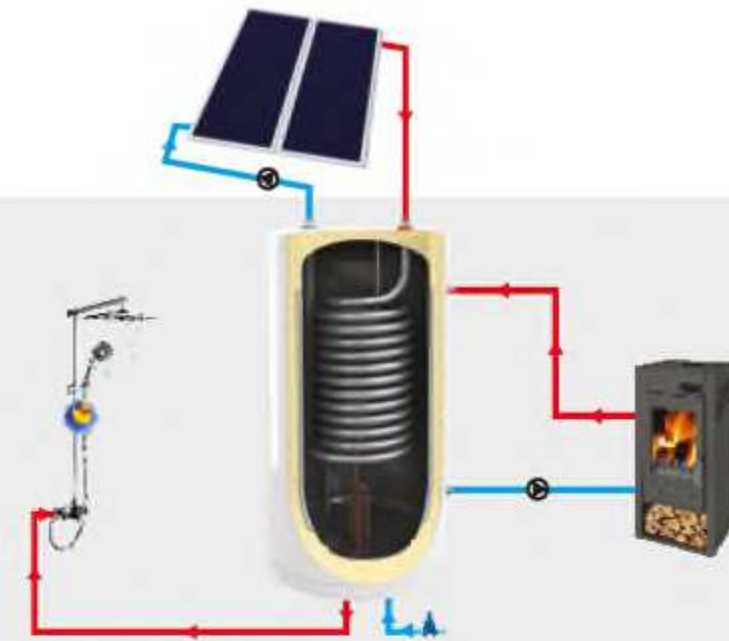
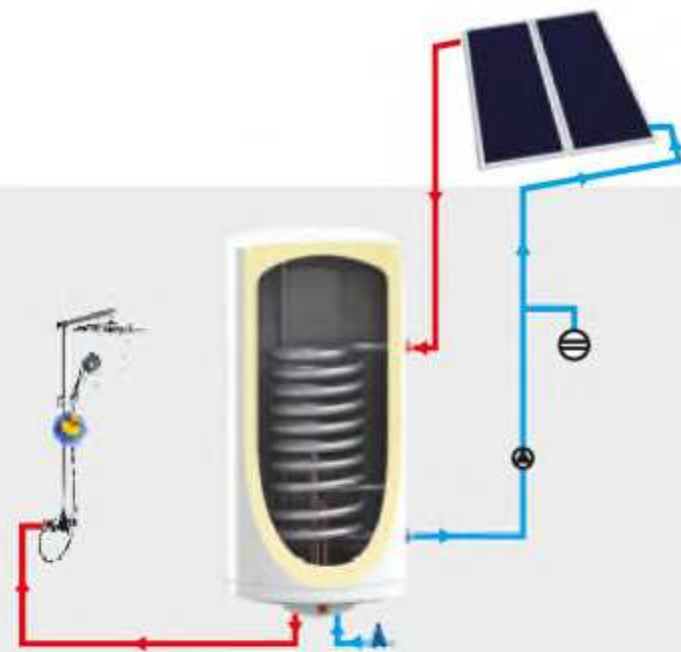
BB series

**specifications
horizontal modifications**



Model	BB 80 H EL					BB 100 H EL					BB 120 H EL					BB 150 H EL					BB 200 H EL				
	H S1					H S1 M					H S1					H S1 M									
Coil outlet	A					RN*/135					RN*/135					RN*/135					RN*/135				
Cold water inlet	G					RN*/65					RN*/65					RN*/65					RN*/65				
Coil inlet	B					RN*/385					RN*/385					RN*/385					RN*/385				
Mantle outlet	M					RN*/195					RN*/200					RN*/215					RN*/230				
Recirculation	C					RN*/260					RN*/260					RN*/260									
Mantle inlet	N					RN*/195					RN*/200					RN*/215					RN*/230				
Hot water outlet	E					RN*/455					RN*/455					RN*/455					RN*/455				
Dimension F	mm	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60				
Dimension L	mm	640	770	900	1040	1310	640	770	900	1040	1310	640	770	900	1040	1310	640	770	900	1040	1310				
Dimension X	mm	230	360	490	630	900	230	360	490	630	900	170	290	390	500	710	170	290	390	500	710				
Dimension Y	mm						250	250	250	250	250	250	250	250	250	250	250	250	250	250	250				
Dimension Z	mm	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240				

SUNSYSTEM[®]
connection
diagrams



In order to ensure long term trouble free operation of your SUNSYSTEM appliance, please call an authorized SUNSYSTEM service partner to do the installation for you.



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