

BUFFER TANKS

series SOLE BF



TECHNICAL DATA INSTALLATION AND OPERATION MANUAL

Version 0.1

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Dear Customers,

This manual contains important information for the safe and correct installation, start-up and trouble-free operation and maintenance of buffer tank. Observing the instructions of this Manual is in the interest of the customer, and it is one of the guarantee terms and conditions.

1. INSTRUCTION TO INSTALLER

	The preparation, installation and commissioning must be performed by an authorized installer / service.
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During installation and operation, the country specific requirements and regulations must be observed:

- local construction regulations on installation of water tank; weight of the boiler to comply with
- the stability of the floor of the room where it will be installed.
- regulations and norms concerning the fitting of the installation with safety devices.
- safety during installation - personal protective equipment

	Use only original parts.
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1.1. Requirements to water tank installation room

When choosing a room for tank installation observe the following requirements:

- to have a drainage channel. Some maintenance procedures require draining of all water from the tank.
- Thermal insulation of the room. This provides efficiency of the appliance and prevents the water from freezing.

1.2. Requirements for installation.

- The length of connecting pipes between the water tank and consumer must be as short as possible.
- Before connecting the boiler to the installation, check all screw connections (bolt inspection cover flange, plug and anode). In very rare cases - during transportation, loading and unloading operations - the screw connections may be loosen.
- Before commissioning, check the installation for leaks.
- Do not exceed the working pressure of 4 bar.
- If there is a risk of freezing of water in the tank - drain the tank completely or let the water heater works continuously.

2. DESCRIPTION OF BUFFER TANK

Accumulates the heat generated by boiler; recommended for each space-heating system. Ensures optimum operating mode of biomass boiler, permitting its

functioning at nominal power output even when the heating system does not need all the heat energy produced thereby.

Produced heat is accumulated and stored inside the buffer tank and can be used even when the boiler itself has cooled down.

**SOLE BF-0 300-2000 series - Inlet/Outlet arrangement:
180 angle degrees.**

Product features:

- Removable high efficiency insulation with thickness 100 mm and outer casing of PVC with RAL 9006 color.
 - Multi-position mounting of temperature sensor.
 - Primer coated on the outside of the tank.
 - Heat exchanger coil /coils (*SOLE BF-1 / SOLE BF-2*).
 - All threads are internal.
 - Easy installation.
- Optional kit for electric heating with nominal power 3kW, 4.5kW, 6kW or 7.5kW.

**SOLE BF-0 150-200 series - Inlet/Outlet arrangement:
100 angle degrees.**

Product features:

- Compact dimensions.
- High efficiency insulation with thickness 50 mm and outer casing of PVC with RAL 9006 color.
- Efficiency insulation with thickness 20 mm and foamed polyethylene with

RAL 9006 color.

(only for models - 80 L and 100 L).

- Multi-position mounting of temperature sensor.
- Heat exchanger coil /coils (*SOLE BF-1 /SOLE BF-2*).
- All threads are internal.
- Easy installation.
- Optional kit for electric heating with nominal power 3kW;

Product features:

- Optional removable insulation with thickness 100mm and outer casing of PVC, RAL 9006 color.
- Insulation type available for all models: soft PU , fleece.
- Dividing plate (Separator). Distribution plate (water stratification unit).
- Primer coated on the outside of the tank
- Up to 5 pcs. Rp½" sensor sleeves
- Up to 13 pcs. Rp1" or Rp1½" inlet/outlet sleeves -connections to heating boilers, indirect heating of domestic hot water (DHW) and solar system
- Heat exchanger coil /coils (PBM R and PBM R2)
- Optional kit for electric heating with nominal power 3kW, 4.5kW, 6kW or 7.5kW

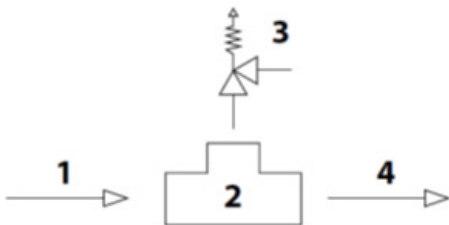
2.1. Insulation and outer casing

*** PBM-H/ SPBM-H series – Rigid PPU**

The quality of the insulation of a water heater is a key factor for its heat conservation capability and energy efficiency.

All Buffer tanks have a high efficiency insulation (DIN 4753, part 8) and outer casing with RAL 9006.

2.2. Connecting of safety relief valve to buffer tank



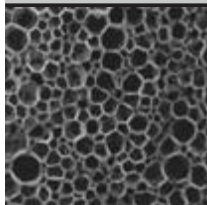
1. Heating installation.
2. Tee.
3. Safety (relief) pressure valve.
4. Heat-carrier inlet.

☐	Stop (Shut-off) valves should never be installed between a safety (relief) valve and the tank. It is recommended once a year to check the operation of the safety valve.
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2.3. Thermometer.



Capacity Buffer tank, L	Insulation type
150, 200,	Rigid PPU 50mm
300, 500, 800, 1000, 1500, 2000, 2500, 3000, 5000	Soft PPU 100 mm removable



A microscopic view
of hard polyurethane

2.4. Electric heating element /option/

All buffer tanks are equipped with
Outlet connection 1 1/2" for electric heating
element:

3000W/230V; 4500W/230V;
6000W/230V; 7500W/400V.

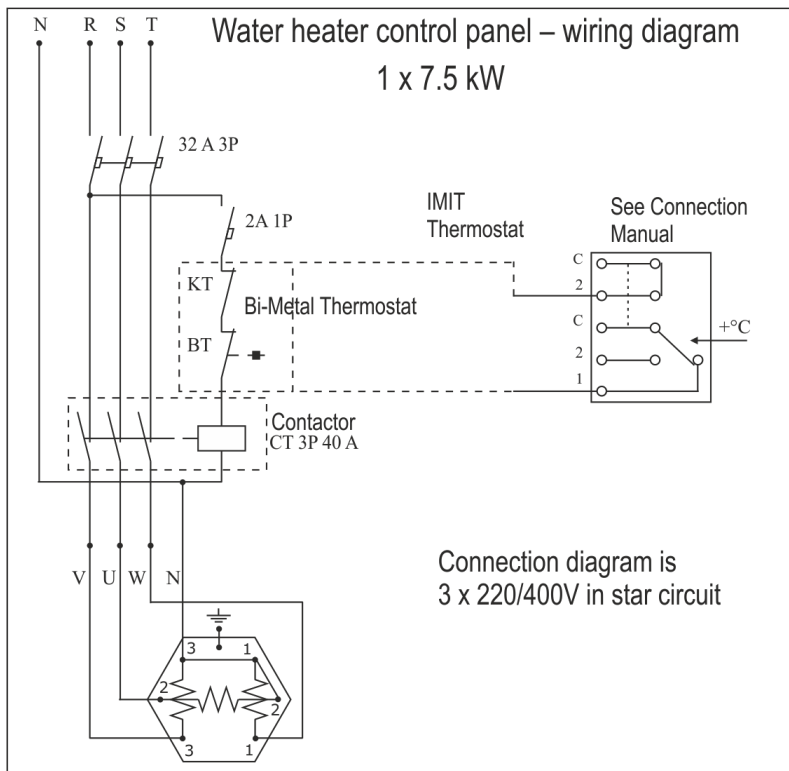
☐	The connection of the electric heating element to the electric power supply must be done by a qualified electricians. When connect the heating element to the electric network, make sure that it is properly grounded.
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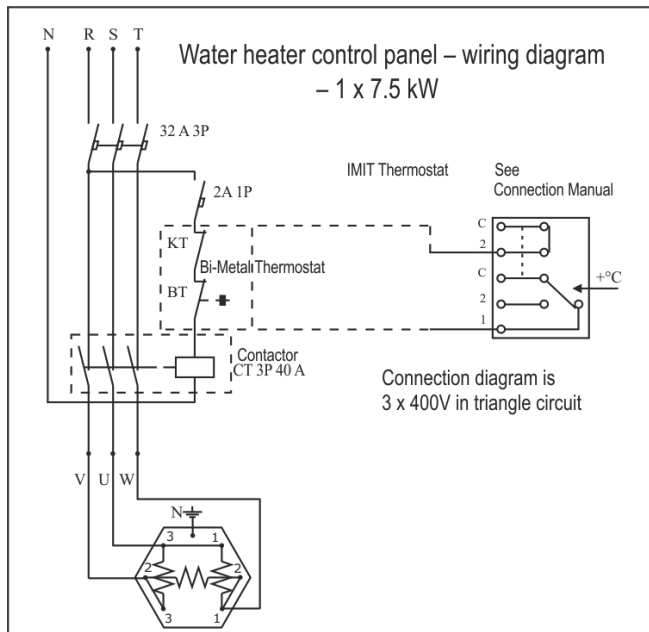
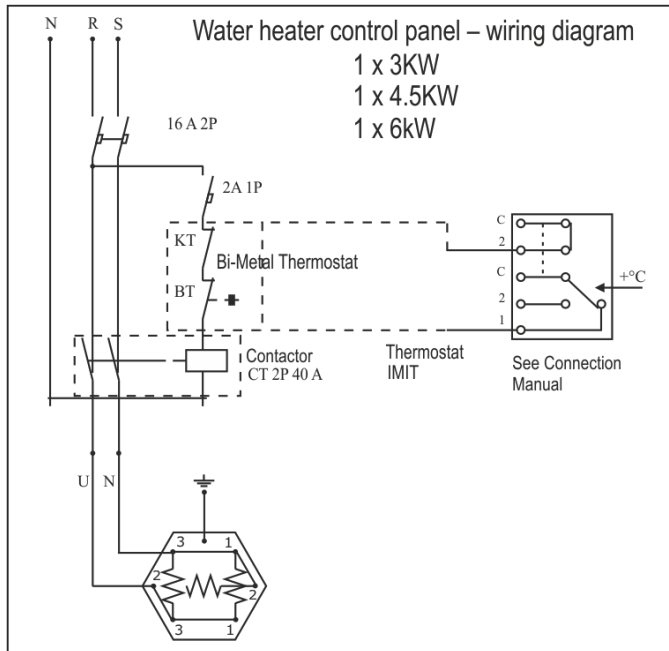
In the table of technical parameters
is specified location for installation of
electric heating element.

Capacity, L	Connect.	Length L, mm	W	V
300 ÷ 5000	1 1/2"	320	4500	230
400 ÷ 5000	1 1/2"	410	6000	230
500 ÷ 5000	1 1/2"	590	7500	230/ 400

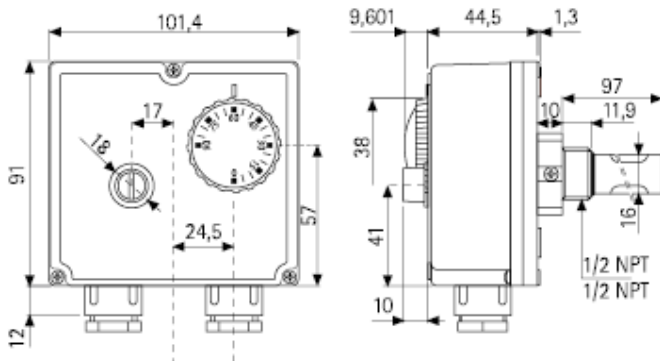


CONNECTIONS SCHEMES





2.5. Thermostat /option/.



schema 1

This is an adjustable double THERMOSTAT which is designed to regulate the water temperature and ensures safety tolerance; it can be manually adjusted (TLSC model) or automatically adjusted (TLSC/A model).



CONFORMITY WITH STANDARDS

This product is in conformity with:
- EN 60730 - 1 and subsequent editions;
- EN 60730 - 2 - 9

CONFORMITY WITH REGULATIONS

This product complies with:
- Low Voltage Directive 73/23 EEC
- Electromagnetic Compatibility Directive 89/336/EC

TECHNICAL CHARACTERISTICS

Temperature range – regulation:

0°C÷90°C, limit: 90°C÷110°C

Tolerance – regulation: ± 5k, limit - 15k; - 6k (depends on the type)

Temperature differential – regulation: 6 ± 2k; 4 ± 1k (depends on the type), limit 25 ± 8k; 15 ± 8k (depends on the type)

Automatic adjustment (TLSC/A) and manual adjustment (TLSC).

Degree of protection = IP 40.

Insulation class = I.

Temperature change rate ≤ 1K/min.

Maximal temperature point = 80°C.

Maximal temperature for electric lamp = 125°C

Accumulation temperature = 15°C ÷ 55°C.

Maximum pressure of the cartridge = 10 bar.

Constant time ≤ 1';.

Electric connection:

C-1 ADJ.: 10(2,5)A/250V~;

C-2 ADJ.: 6(2,5)A/250V~;

C-1 LIM.: 0,5A/250V~;

C2 LIM.: 10(2,5)A/250V~;

Terminal – circuit breaker or switch-on contacts.

Switch-on action – **2B**.

Place of installation – **NORMAL**.

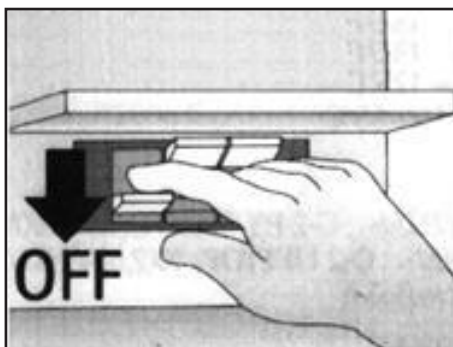
Type of wire – **M20 x 1.5**.

	WARNING! All installation operations, including manual adjustments, must be fulfilled by a qualified specialist following all safety conditions.
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INSTALLATION AND CONNECTION

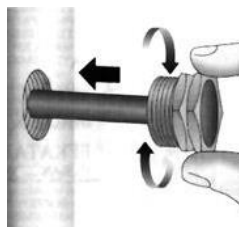
Safety instructions:

Before connecting the thermostat, make sure that THE UNIT TO BE THERMALLY CONTROLLED (water heater, pump, etc.) IS NOT CONNECTED to the power supply network, and is in compliance with the instructions in schema 2.

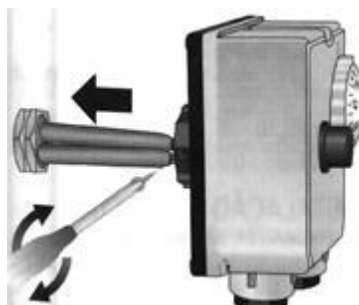


schema 2

a) See Schema 3 and 4.

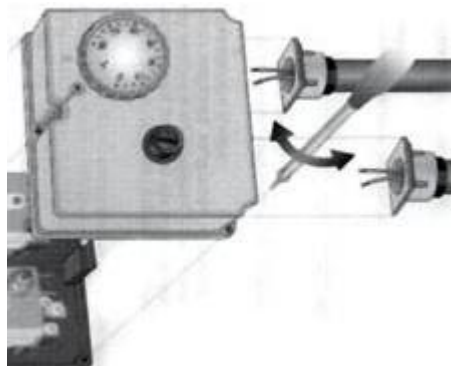


schema 3

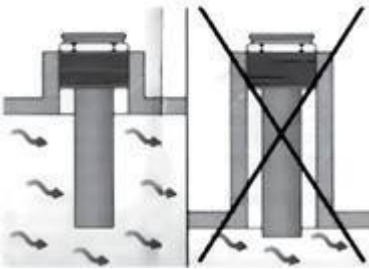


schema 4

b) Unscrew the three bolts and remove the front part of the thermostat. Unravel the power supply wires and connect them to the terminals of the thermostat (Schema 5) following the instructions.



schema 5



schema 6

NOTE: See Figure 6.

To close the front part, the cartridge opening must align with the coupling of the adjustment knob.

CONNECTION LIMITATION

TERMINAL 2 – opens the circuit when the temperature rises.

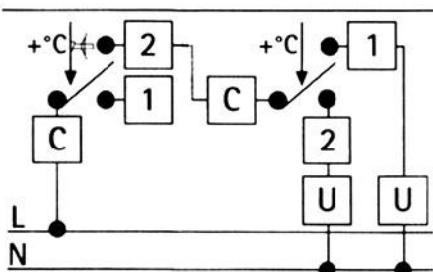
TERMINAL C – common contact.

THERMOSTAT

TERMINAL 1 – opens the circuit when the temperature rises.

TERMINAL 2 – closes the circuit when the temperature rises

TERMINAL C – common contact

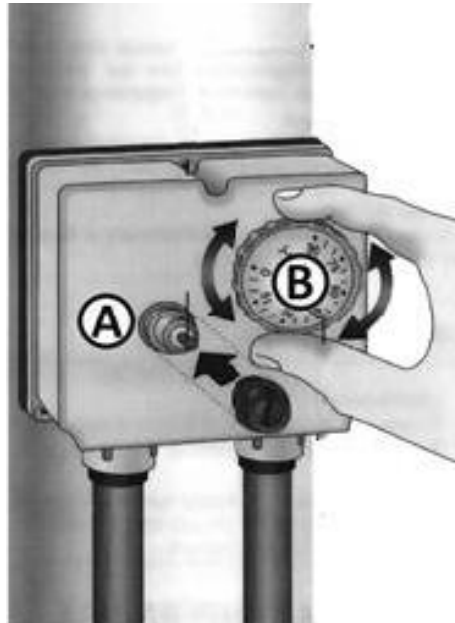


schema 7

TEMPERATURE ADJUSTMENT

A – Reset button (only for TLSC)

B – Knob for temperature adjustment



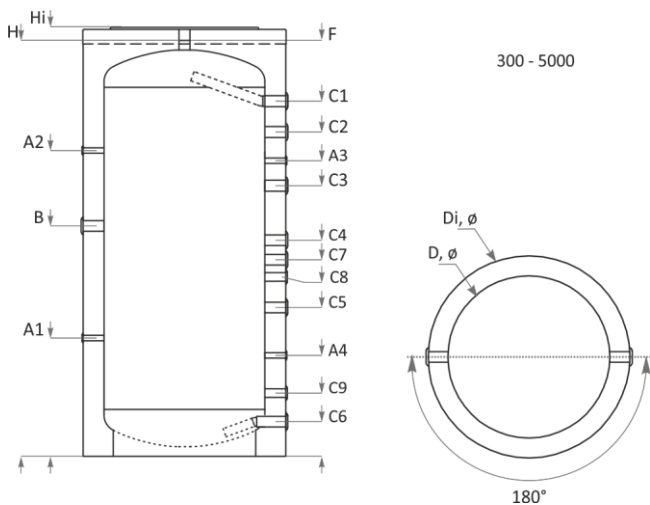
schema 8

3. TECHNICAL PARAMETERS BUFFERS - SOLE BF series

3.1. Model SOLE BF-0 - without coil

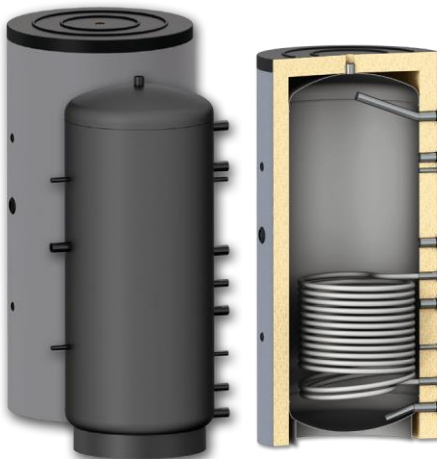


		SOLE BF-0 300	SOLE BF-0 500	SOLE BF-0 800	SOLE BF-0 1000
Capacity	L	300	500	800	1000
Height without insulation / with insulation	H, H _i , mm	1410/1460	1610/1660	1860/1910	2040/2090
Minimal vertical clearance	Mm	1430	1640	1900	2075
Diameter without insulation /with insulation	D, mm	Ø 650/750	Ø 650/850	Ø 790/990	Ø 790/990
Operating pressure/Max. buffer temperature	bar/°C	3/95	3/95	3/95	3/95
Recommended boiler size, connected to buffer tank	Kw	6-10	10-17	15-27	18-33
Weight without insulation/with insulation	kg, kg i	60/70	90/102	118/134	133/151
Sleeve for Electric heating element	B, mm, Rp 1 ^{1/2} "	760	790	920	1130
Heat carrier	C1, mm, Rp1 ^{1/2} "	1170	1370	1573	1742
Heat carrier	C2, mm, Rp1 ^{1/2} "			1390	1520
Heat carrier	C3, mm, Rp1 ^{1/2} "	880	990		
Heat carrier	C4, mm, Rp1 ^{1/2} "	770	880	980	1060
Heat carrier	C5, mm, Rp1 ^{1/2} "	540	620	670	730
Heat carrier	C6, mm, Rp1 ^{1/2} "	150	150	170	170
Heat carrier	C7, mm,				
Heat carrier	C8, mm, Rp1 ^{1/2} "	660	770	820	880
Heat carrier	C9, mm, Rp1 ^{1/2} "	260	250	310	310
Sensor sleeve	A1, mm, Rp1/2"	410	410	570	580
Sensor sleeve	A2, mm, Rp1/2"	1060	1120	1290	1500
Sensor sleeve	A3, mm, Rp1/2"	1010	1120	1290	1450
Sensor sleeve	A4, mm, Rp1/2"	420	460	465	495
Air vent sleeve	F, mm, Rp1 ^{1/2} "	1410	1610	1860	2040

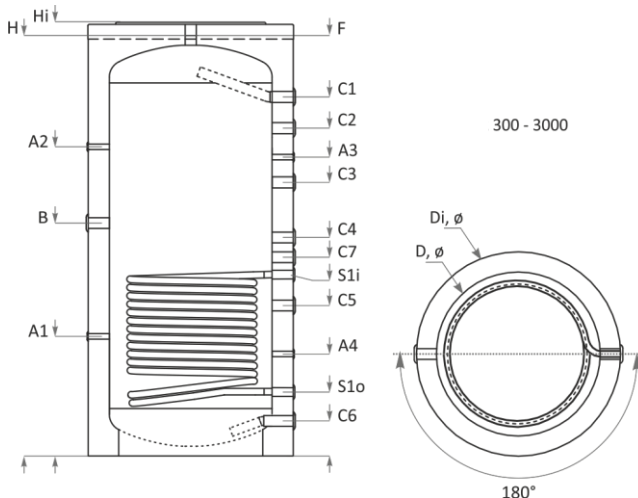


		SOLE BF-0 1500	SOLE BF-0 2000	SOLE BF-0 3000
Capacity	L	1500	2000	3000
Height without insulation / with insulation	H, Hi, mm	2150/2220	2132/2182	2246/2296
Minimal vertical clearance	mm	2220	2220	2332
Diameter without insulation /with insulation	D, mm	Ø 1000/1200	Ø 1200/1400	Ø 1400/1600
Operating pressure/Max. buffer temperature	bar/°C	3/95	3/95	3/95
Recommended boiler size, connected to buffer tank	kW	27-50	36-67	55-100
Weight without insulation/with insulation	kg, kg i	206/229	273/300	402/437
Sleeve for Electric heating element	B, mm, Rp 1 ^{1/2} "	1130	1170	1184
Heat carrier	C1, mm, Rp1 ^{1/2} "	1808	1775	1797
Heat carrier	C2, mm, Rp1 ^{1/2} "	1635		
Heat carrier	C3, mm, Rp1 ^{1/2} "	1305	1420	1474
Heat carrier	C4, mm, Rp1 ^{1/2} "	1085	1170	1184
Heat carrier	C5, mm, Rp1 ^{1/2} "	765	735	864
Heat carrier	C6, mm, Rp1 ^{1/2} "	235	230	344
Heat carrier	C7, mm,	Rp1 ^{1/2} "/975		
Heat carrier	C8, mm, Rp1 ^{1/2} "	895	980	1082
Heat carrier	C9, mm, Rp1 ^{1/2} "	375	380	477
Sensor sleeve	A1, mm, Rp1 ^{1/2} "	875	920	910
Sensor sleeve	A2, mm, Rp1 ^{1/2} "	1500	1645	1660
Sensor sleeve	A3, mm, Rp1 ^{1/2} "	1525	1625	1590
Sensor sleeve	A4, mm, Rp1 ^{1/2} "	520	500	610
Air vent sleeve	F, mm, Rp1 ^{1/2} "	2150	2132	2246

3.2. Model SOLE BF-1 - with one coil

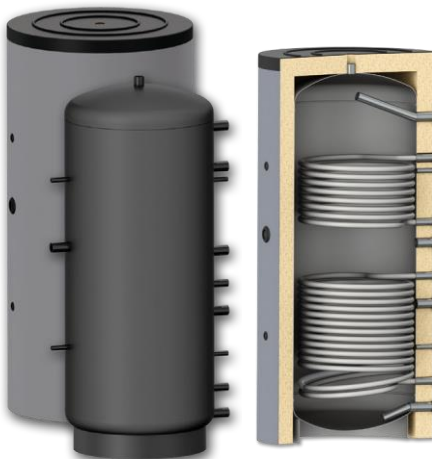


Capacity	L	300	500	800	1000
Height without insulation / with insulation	H, Hi, mm	1410/1460	1610/1660	1860/1910	2040/2090
Minimal vertical clearance	mm	1430	1640	1900	2075
Diameter without insulation /with insulation	D, mm	Ø 650/750	Ø 650/850	Ø 790/990	Ø 790/990
Operating pressure/Max. buffer temperature	bar/°C	3/95	3/95	3/95	3/95
Operating pressure /Max. coil temperature	bar/°C	16/110	16/110	16/110	16/110
Recommended boiler size, connected to buffer tank	kW	6-10	10-17	15-27	18-33
Weight without insulation/with insulation	kg, kg i	78/88	104/116	152/168	180/198
Sleeve for Electric heating element	B, mm, Rp 1 ^{1/2} "	760	790	920	1130
Heat carrier	C1, mm, Rp1 ^{1/2} "	1170	1370	1573	1742
Heat carrier	C2, mm, Rp1 ^{1/2} "			1390	1520
Heat carrier	C3, mm, Rp1 ^{1/2} "	880	990		
Heat carrier	C4, mm, Rp1 ^{1/2} "	770	880	980	1060
Heat carrier	C5, mm, Rp1 ^{1/2} "	540	620	670	730
Heat carrier	C6, mm, Rp1 ^{1/2} "	150	150	170	170
Heat carrier	C7, mm,				
Sensor sleeve	A1, mm, Rp1/2"	410	410	570	580
Sensor sleeve	A2, mm, Rp1/2"	1060	1120	1290	1500
Sensor sleeve	A3, mm, Rp1/2"	1010	1120	1290	1450
Sensor sleeve	A4, mm, Rp1/2"	420	460	465	495
Air vent sleeve	F, mm, Rp1 ^{1/2} "	1410	1610	1860	2040
Coil capacity S1	S1 L	6.2	10.5	17.9	18.5
Heat exchange surface S1	S1 m²	1.0	1.7	2.9	3.0
Inlet/Outlet Lower coil S1	S1/S1o, mm, Rp1"	660/260	770/250	820/310	880/310

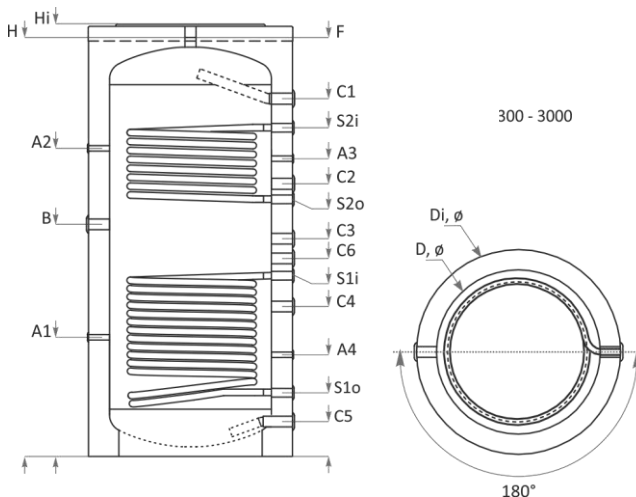


		SOLE BF-1 1500	SOLE BF-1 2000	SOLE BF-1 3000
Capacity	L	1500	2000	3000
Height without insulation / with insulation	H, Hi, mm	2150/2220	2132/2182	2246/2296
Minimal vertical clearance	mm	2220	2220	2332
Diameter without insulation /with insulation	D, mm	Ø 1000/1200	Ø 1200/1400	Ø 1400/1600
Operating pressure/Max. buffer temperature	bar/°C	3/95	3/95	3/95
Operating pressure /Max. coil temperature	bar/°C	16/110	16/110	16/110
Recommended boiler size, connected to buffer tank	kW	27-50	36-67	55-100
Weight without insulation/with insulation	kg, kg i	272/295	330/356	476/511
Sleeve for Electric heating element	B, mm, Rp 1 ^{1/2} "	1130	1170	1184
Heat carrier	C1, mm, Rp1 ^{1/2} "	1808	1775	1797
Heat carrier	C2, mm, Rp1 ^{1/2} "	1635		
Heat carrier	C3, mm, Rp1 ^{1/2} "	1305	1420	1474
Heat carrier	C4, mm, Rp1 ^{1/2} "	1085	1170	1184
Heat carrier	C5, mm, Rp1 ^{1/2} "	765	735	864
Heat carrier	C6, mm, Rp1 ^{1/2} "	235	230	344
Heat carrier	C7, mm,	Rp1/2"/975		
Sensor sleeve	A1, mm, Rp1/2"	875	920	910
Sensor sleeve	A2, mm, Rp1/2"	1500	1645	1660
Sensor sleeve	A3, mm, Rp1/2"	1525	1625	1590
Sensor sleeve	A4, mm, Rp1/2"	520	500	610
Air vent sleeve	F, mm, Rp1 ^{1/2} "	2150	2132	2246
Coil capacity S1	S1 L	21	24.6	29.9
Heat exchange surface S1	S1 m ²	3.4	4.0	4.9
Inlet/Outlet Lower coil S1	S1i/S1o, mm,Rp1"	895/375	980/380	1082/477

3.3. SOLE BF-2 - with two coils

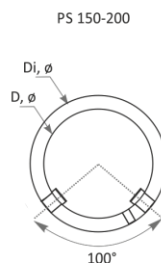
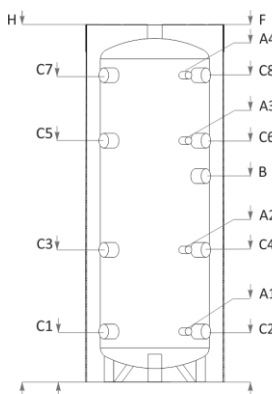


		SOLE BF-2 300	SOLE BF-2 500	SOLE BF-2 800	SOLE BF-2 1000
Capacity	L	300	500	800	1000
Height without insulation / with insulation	H, Hi, mm	1410/1460	1610/1660	1860/1910	2040/2090
Minimal vertical clearance	mm	1430	1640	1900	2075
Diameter without insulation /with insulation	D, mm	Ø 650/750	Ø 650/850	Ø 790/990	Ø 790/990
Operating pressure/Max. buffer temperature	bar/°C	3/95	3/95	3/95	3/95
Operating pressure /Max. coil temperature	bar/°C	16/110	16/110	16/110	16/110
Recommended boiler size, connected to buffer tank	kW	6-10	10-17	15-27	18-33
Weight without insulation/with insulation	kg, kg i	83/93	118/130	189/205	203/221
Sleeve for Electric heating element	B, mm, Rp 1 ^{1/2"}	760	790	920	1130
Heat carrier	C1, mm, Rp1 ^{1/2"}	1170	1370	1573	1742
Heat carrier	C2, mm, Rp1 ^{1/2"}			1390	1520
Heat carrier	C3, mm, Rp1 ^{1/2"}	880	990		
Heat carrier	C4, mm, Rp1 ^{1/2"}	770	880	980	1060
Heat carrier	C5, mm, Rp1 ^{1/2"}	540	620	670	730
Heat carrier	C6, mm, Rp1 ^{1/2"}	150	150	170	170
Sensor sleeve	A1, mm, Rp1/2"	410	410	570	580
Sensor sleeve	A2, mm, Rp1/2"	1060	1120	1290	1500
Sensor sleeve	A3, mm, Rp1/2"	1010	1120	1290	1450
Sensor sleeve	A4, mm, Rp1/2"	420	460	465	495
Air vent sleeve	F, mm, Rp1 ^{1/2"}	1410	1610	1860	2040
Capacity lower/upper coil S1/S2	S1/S2 L	6.2/3.1	10.5/6.2	17.9/11.1	18.5/12.3
Heat exchange surface S1/S2	S1/S2 m²	1.0/0.5	1.7/1.0	2.9/1.8	3.0/2.0
Inlet/Outlet Lower coi S1	S1i/S1o, mm, Rp1"	660/260	770/250	820/310	880/310
Inlet/Outlet Upper coil S2	S2i/S2o, mm, Rp1"	1080/880	1270/990	1390/1072	1520/1172



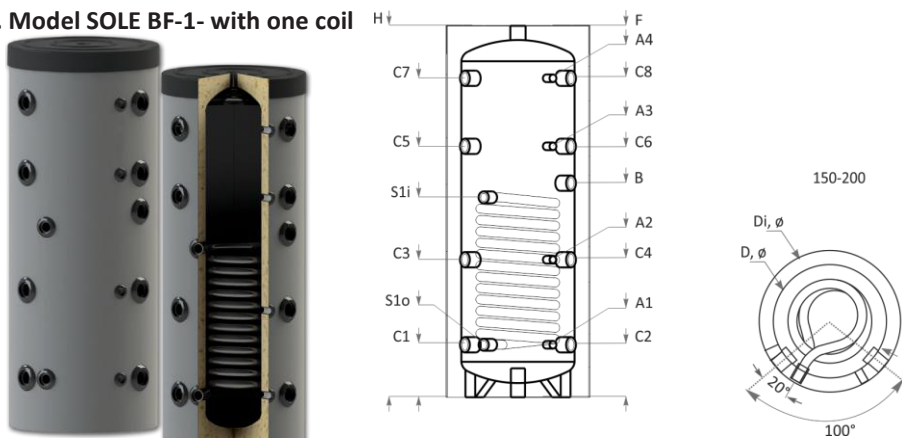
		SOLE BF-2 1500	SOLE BF-2 2000	SOLE BF-2 3000
Capacity	L	1500	2000	3000
Height without insulation / with insulation	H, Hi, mm	2150/2220	2132/2182	2246/2296
Minimal vertical clearance	mm	2220	2220	2332
Diameter without insulation /with insulation	D, mm	Ø 1000/1200	Ø 1200/1400	Ø 1400/1600
Operating pressure/Max. buffer temperature	bar/°C	3/95	3/95	3/95
Operating pressure /Max. coil temperature	bar/°C	16/110	16/110	16/110
Recommended boiler size, connected to buffer tank	kW	27-50	36-67	55-100
Weight without insulation/with insulation	kg, kg i	306/329	366/393	520/555
Sleeve for Electric heating element	B, mm, Rp 1 ^{1/2} "	1130	1170	1184
Heat carrier	C1, mm, Rp1 ^{1/2} "	1808	1775	1797
Heat carrier	C2, mm, Rp1 ^{1/2} "	1305	1420	1474
Heat carrier	C3, mm, Rp1 ^{1/2} "	1085	1170	1184
Heat carrier	C4, mm, Rp1 ^{1/2} "	765	735	864
Heat carrier	C5, mm, Rp1 ^{1/2} "	235	230	344
Heat carrier	C6, mm, Rp1 ^{1/2} "	Rp1 ^{1/2} "/975		
Sensor sleeve	A1, mm, Rp1/2"	875	920	910
Sensor sleeve	A2, mm, Rp1/2"	1500	1645	1660
Sensor sleeve	A3, mm, Rp1/2"	1525	1625	1590
Sensor sleeve	A4, mm, Rp1/2"	520	500	610
Air vent sleeve	F, mm, Rp1 ^{1/2} "	2150	2132	2246
Capacity lower/upper coil S1/S2	S1/S2 L	21/14.8	24.6/14.8	29.9/17.1
Heat exchange surface S1/S2	S1/S2 m ²	3.4/2.4	4.0/2.4	4.9/2.8
Inlet/Outlet Lower coi S1	S1i/S1o, mm, Rp1"	895/375	980/380	1082/477
Inlet/Outlet Upper coil S2	S2i/S2o, mm, Rp1"	1635/1225	1645/1285	1660/1310

3.4. Model SOLE BF-0 - without coil 150L - 200 L



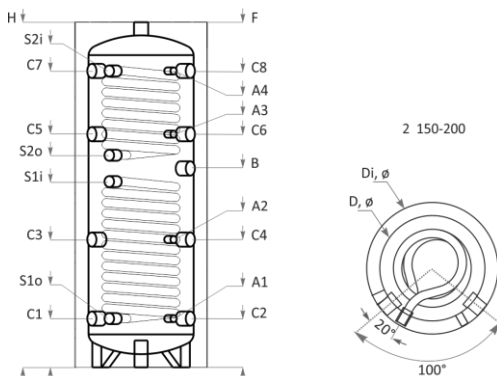
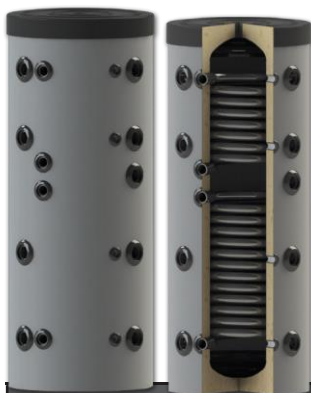
		SOLE BF-0 150	SOLE BF-0 200
Capacity	L	150	200
Height	H, mm	1310	1710
Minimal vertical clearance	mm	1400	1780
Diameter without insulation /with insulation	D, mm	ø 400/500	ø 400/500
Operating pressure/Max. buffer temperature	bar/°C	3/95	3/95
Recommended boiler size, connected to buffer tank	kW	6-10	6-10
Weight	kg,	38	47
Sleeve for Electric heating element	B, mm, Rp1 ^{1/2} "	755	995
Heat carrier	C1, mm, Rp1 ^{1/2} "	185	185
Heat carrier	C2, mm, Rp1 ^{1/2} "	185	185
Heat carrier	C3, mm, Rp1 ^{1/2} "	485	725
Heat carrier	C4, mm, Rp1 ^{1/2} "	485	725
Heat carrier	C5, mm, Rp1 ^{1/2} "	885	1165
Heat carrier	C6, mm, Rp1 ^{1/2} "	885	1165
Heat carrier	C7, mm, Rp1 ^{1/2} "	1125	1525
Heat carrier	C8, mm, Rp1 ^{1/2} "	1125	1525
Sensor sleeve	A1, mm, Rp1/2"	185	185
Sensor sleeve	A2, mm, Rp1/2"	485	725
Sensor sleeve	A3, mm, Rp1/2"	885	1165
Sensor sleeve	A4, mm, Rp1/2"	1125	1525
Air vent sleeve	F, mm, Rp1 ^{1/2} "	1310	1710

3.5. Model SOLE BF-1- with one coil



		SOLE BF-1 150	SOLE BF-1 200
Capacity	L	150	200
Height	H, mm	1310	1710
Minimal vertical clearance	mm	1400	1780
Diameter without insulation /with insulation	D, mm	ø 400/500	ø 400/500
Operating pressure/Max. buffer temperature	bar/°C	3/95	3/95
Operating pressure /Max. coil temperature	bar/°C	16/110	16/110
Recommended boiler size, connected to buffer tank	kW	6-10	6-10
Weight	kg,	56	74
Sleeve for Electric heating element	B, mm, Rp1 ^{1/2"}	755	995
Heat carrier	C1, mm, Rp1 ^{1/2"}	185	185
Heat carrier	C2, mm, Rp1 ^{1/2"}	185	185
Heat carrier	C3, mm, Rp1 ^{1/2"}	485	725
Heat carrier	C4, mm, Rp1 ^{1/2"}	485	725
Heat carrier	C5, mm, Rp1 ^{1/2"}	885	1165
Heat carrier	C6, mm, Rp1 ^{1/2"}	885	1165
Heat carrier	C7, mm, Rp1 ^{1/2"}	1125	1525
Heat carrier	C8, mm, Rp1 ^{1/2"}	1125	1525
Sensor sleeve	A1, mm, Rp1/2"	185	185
Sensor sleeve	A2, mm, Rp1/2"	485	725
Sensor sleeve	A3, mm, Rp1/2"	885	1165
Sensor sleeve	A4, mm, Rp1/2"	1125	1525
Air vent sleeve	F, mm, Rp1 ^{1/2"}	1310	1710
Coil capacity S1	S1 L	6.8	9.9
Heat exchange surface S1	S1 m ²	1.1	1.6
Inlet/Outlet Lower coil S1	S1i/S1o, mm, Rp1"	705/185	1125/805

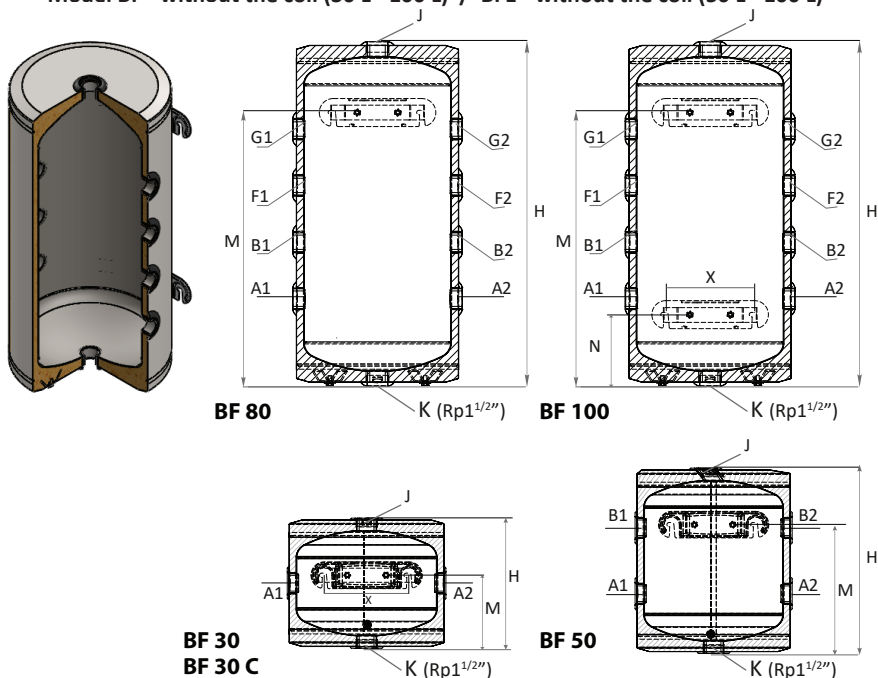
3.6.. Model SOLE BF-2 - with two coils



		SOLE BF-2 150	SOLE BF-2 200
Capacity	L	150	200
Height	H, mm	1310	1710
Minimal vertical clearance	mm	1400	1780
Diameter without insulation /with insulation	D, mm	Ø 400/500	Ø 400/500
Operating pressure/Max. buffer temperature	bar/°C	3/95	3/95
Operating pressure /Max. coil temperature	bar/°C	16/110	16/110
Recommended boiler size, connected to buffer tank	kW	6-10	6-10
Weight	kg,	69	91
Sleeve for Electric heating element	B, mm, Rp1 ^{1/2"}	755	995
Heat carrier	C1, mm, Rp1 ^{1/2"}	185	185
Heat carrier	C2, mm, Rp1 ^{1/2"}	185	185
Heat carrier	C3, mm, Rp1 ^{1/2"}	485	725
Heat carrier	C4, mm, Rp1 ^{1/2"}	485	725
Heat carrier	C5, mm, Rp1 ^{1/2"}	885	1165
Heat carrier	C6, mm, Rp1 ^{1/2"}	885	1165
Heat carrier	C7, mm, Rp1 ^{1/2"}	1125	1525
Heat carrier	C8, mm, Rp1 ^{1/2"}	1125	1525
Sensor sleeve	A1, mm, Rp1/2"	185	185
Sensor sleeve	A2, mm, Rp1/2"	485	725
Sensor sleeve	A3, mm, Rp1/2"	885	1165
Sensor sleeve	A4, mm, Rp1/2"	1125	1525
Air vent sleeve	F, mm, Rp1 ^{1/2"}	1310	1710
Capacity lower/upper coil S1/S2	S1/S2 L	6.8/4.1	9.9/6.2
Heat exchange surface S1/S2	S1/S2 m ²	1.1/0.66	1.6/1.0
Inlet/Outlet Lower coi S1	S1i/S1o, mm, Rp1"	705/185	945/185
Inlet/Outlet Upper coil S2	S2i/S2o, mm, Rp1"	1125/805	1525/1045

3.7. Model SOLE BF-0 without coils 30 L - 100 L

Model BF - without the coil (30 L - 100 L) / BFE - without the coil (50 L - 100 L)



		BF 30	BF/BFE 50	BF/BFE 80	BF/BFE 100
Capacity	L	30	50	80	100
Height without feet	H, mm	360	520	755	915
Diameter with insulation	D, mm	Ø 440	Ø 440	Ø 440	Ø 440
Operating pressure/Max. buffer temperature	bar/°C	6/95	6/95	6/95	6/95
Weight	kg	13	17	25	29
Connection	A1,A2 mm, Rp1 1/2" A1**,A2** mm, Rp1"	180	170	190	230
Connection	B1,B2 mm, Rp1 1/2"	-	355	315	380
Connection	F1,F2 mm, Rp1 1/2"	-	-	440	535
Connection	G1,G2 mm, Rp1 1/2"	-	-	570	690
Connection	J, mm, Rp1 1/2" J**, mm, Rp1/2"	360	520	755	915
Connection	K mm, Rp1 1/2" K** mm, Rp1/2"	Rp1 1/2"	Rp1 1/2"	Rp1 1/2"	Rp1 1/2"
Dimensions	N, mm	-	-	-	160
Dimensions	M, mm	230	365	595	760
Distance between suspension holes of the wall mount	X, mm,	240	240	240	240
Feet for floor mounting		-	✓	✓	✓

* BFE models are with internal glass-ceramic coating / ** for model BF30 C

4. TRANSPORT AND PACKING

The buffers can be with or without insulation.

They are secured on a pallet. Packed with foil.

All models up to 2000 liters are secured on a pallet upright.

Buffer tank	Dimensions of pallet (without insulation)	Dimensions of pallet (with insulation)
SOLE BF-0 500	650x650	900x900
SOLE BF-0 800	790x790	1050x1050
SOLE BF-0 1000	790x790	1050x1050
SOLE BF-0 1500	1000x1000	1250x1250
SOLE BF-0 2000	1150x1150	1400x1400

Buffer tank	Dimensions of pallet (without insulation)
SOLE BF-0 150	550x550
SOLE BF-0 200	550x550
SOLE BF-1 150	550x550
SOLE BF-1 200	550x550
SOLE BF-2 150	550x550
SOLE BF-2 200	550x550

Advantages:

- Easy transportation (takes less space at transportation).
- Easy conveyance to the place of installation.

Easy and quick packing of the water heater with soft insulation. All necessary openings in the soft polyurethane casing are made beforehand, and the installer has only to find them and take them out. The casing is fastened by a zipper at the assembly platform.

5. RECYCLING AND WASTE DISPOSAL

At the end of life cycle of each product its components are due to be disposed of in conformity with regulatory prescriptions. Obsolete equipment shall be collected separately from other recyclable waste containing materials with adverse effect on health and environment.

Metal details, as well as non-metal ones shall be sold to licensed recyclable metal or non-metal waste collection organizations. Those should not be treated as domestic waste.



SOLE S.A.

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