

INVERTER MONOBLOCK HEAT PUMP



GENERAL INFORMATION

- ✓ Solimpeks Heat Pumps, which are mounted outdoors with a monoblock structure in which all equipment is gathered in a single body, save space for the user indoors and offer special connection options with a wide range of accessories according to the desired demands and installation type.
- ✓ With inverter technology, our product allows you to control your energy consumption and becomes one of the important parts of your home.
- ✓ With its efficient control system, adjusts the indoor climate for maximum comfort and, in this case, minimizes electricity consumption.



TECHNICAL SPECIFICATIONS		8 kW	12 kW	16 kW
Refrigerant supply/type	V/Hz/Ph	220-230/50/1 R410a	220-230/50/1 R410a	220-230/50/1 R410a
Max. Heating capacity (1)	kW	8,6	12,2	16,2
COP(1)	W/W	4,3	4,28	3,81
Heating capacity min/max (1)	kW	4,65/8,6	5,8/12,2	7,17/16,2
Power demand min/max (1)	W	1080/2000	1357/2850	1880/4250
COP min/max	W/W	4,2/4,3	4,27/4,28	3,8/3,81
Max Heating capacity (2)	kW	8,1	11,5	14,8
COP(2)	W/W	3,52	3,48	3,13
Heating capacity min/max (2)	kW	4,26/8,1	5,06/11,5	6,73/14,8
Power demand min/max (2)	W	1210/2300	1453/3300	2150/4730
COP min/max	W/W	3,51/3,52	3,46/3,48	3,12/3,13
Max cooling capacity (3)	kW	6,8	10	11,5
EER(3)	W/W	3,02	3,04	2,5
Cooling capacity min/max (3)	kW	5,66/6,8	3,44/10	3,9/11,5
Power demand min/max (3)	W	1875/2250	1130/3290	1560/3965
EER min/max	W/W	3,01/3,02	3,03/3,04	2,4/2,5
Ambient temp.	°C	-20/40	-20/40	-20/40
Min. Supply temp. (heating/cooling)	°C	20/7	20/7	20/7
Flow	m ³ /h	>1,5	>2	>2,8
Sound level	dB	50	59	59

1-) Ambient temperature 7 C / Water inlet-outlet 30-35 C

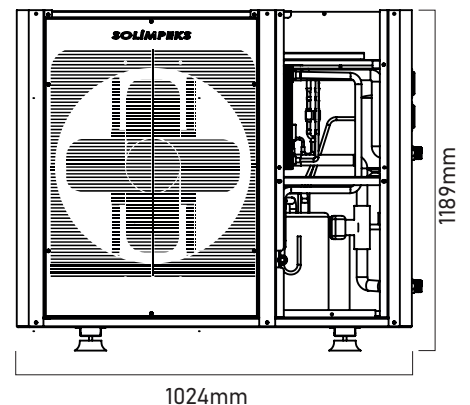
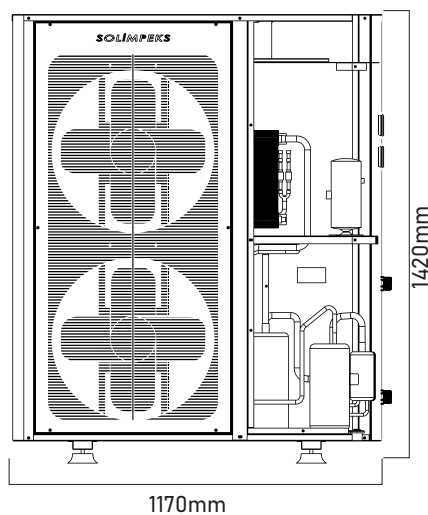
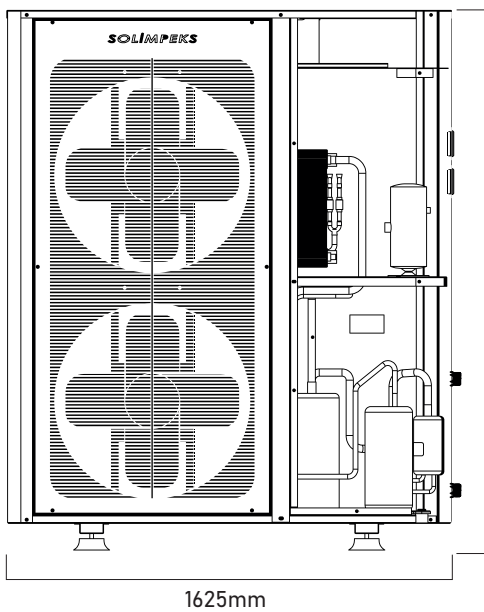
2-) Ambient temperature 7 C / Water inlet-outlet 40-45 C

3-) Ambient temperature 35 C / Water inlet-outlet 12-7 C

*Solimpeks reserves the right to make changes to this table at any time.



TECHNICAL SPECIFICATIONS		8 kW	12 kW	16 kW
Dimensions	mm	1024x356x1189	1170 x 340 x 1420	1168x346x1625
Weight	kg	110	140	150

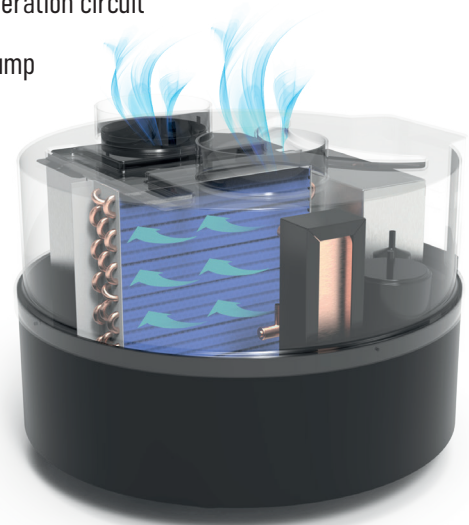


BCP HEAT PUMP



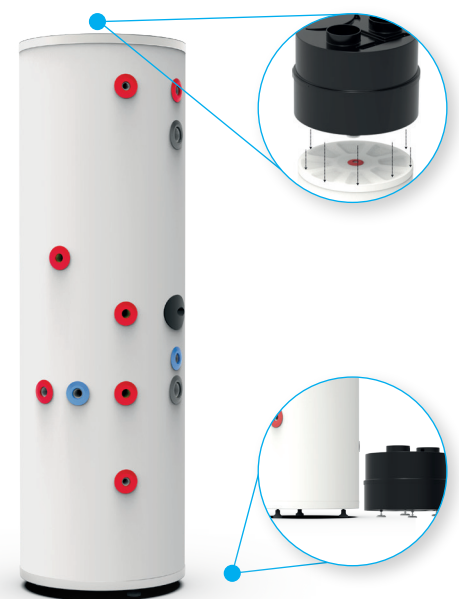
GENERAL INFORMATION

- ✓ Heat pumps of the BCP Solimpeks series are high efficiency, compact devices for the production of domestic hot water. Owing to its design, the device can be connected to any new or existing tank.
- ✓ High level of safety due to pressure and temperature safety devices used in the refrigeration circuit
- ✓ It allows easy and quick installation to a monoblock design and in-built circulation pump
- ✓ Highly energy-efficient with high quality components
- ✓ Automatic defrosting of the evaporator
- ✓ High efficiency rotary compressor, optimised for domestic hot water heat pumps
- ✓ All boilers compatible



TECHNICAL SPECIFICATIONS

TECHNICAL DATA		BCP
Electric power supply		220-240V/50Hz
Heating capacity at 20°C outdoor temperature (at 30°C water inlet temperature)	kW	3
Electricity consumption at 20°C outdoor environment	kW	0,722
Heating capacity at 13 - 40°C	kW	2,910
Heating capacity at 13 - 45°C	kW	2,877
Heating capacity at 13 - 50°C	kW	2,818
Heating capacity at 13 - 55°C	kW	2,651
COP, water heating 13 - 40°C	W/W	4,48
COP, water heating 13 - 45°C	W/W	4,23
COP, water heating 13 - 50°C	W/W	4,00
COP, water heating 13 - 55°C	W/W	3,62
Flow	m ³ /h	0,8
Diameter	mm	668
Height	mm	528
Weight	kg	45



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HEAT PUMP FOR DOMESTIC HOT WATER

- ✓ Anti-corrosion magnesium stick for assuring the durability of the tank.
- ✓ Condenser wrapped externally to the boiler, free from fouling and gas water contamination.
- ✓ High thickness polyurethane foam (PU) thermal insulation.
- ✓ Outer shell made black colour plastic material.
- ✓ Acoustically isolated top part plastic cover.
- ✓ Highly efficient compressor with the R134A refrigerant.
- ✓ High and low gas pressure protections.
- ✓ Assuring constant hot water even in extreme cold winters.
- ✓ Electrical heater available in the unit as back up.
- ✓ ON-OFF contact for starting the unit from an external switch.
- ✓ Thermostat expansion valve for precise control.



TECHNICAL SPECIFICATIONS

TECHNICAL DATA		SOLIDO 300
Power source	V/Ph/Hz	220-240/1/50
Water tank real capacity	L	286
Heating capacity	W	1870* (+3000**)
Rated power input	W	503* (+3000**)
Rated current	A	2.23* (+13.5**)
COP	W/W	3.72*
Maximum power input	W	765 (+3000**)
Maximum current	A	3.5 (+13.5**)
Max. output water temperature (without using e-heater)	°C	65
Airflow without air static pressure	m³/h	450
Air flow with 60 Pa air static pressure	m³/h	350
Maximum allowable tank pressure	bar	10
Auxiliary electric heater	kW	3
Thermostatic Expansion Valve		Yes
Cold water inlet	inch	3/4"
Hot water outlet	inch	3/4"
Auxiliary heat source input/output	inch	1 1/4"
Net dimensions	mm	φ650x1940
Net weight	kg	110

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SOLIKOMBI

DHW TANK + SOLAR TANK + BUFFER



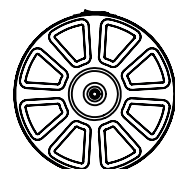
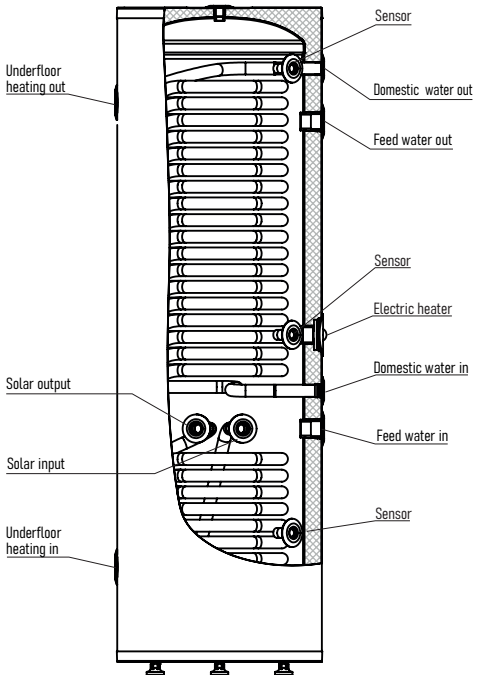
GENERAL INFORMATION

- ✓ Domestic hot water heat exchanger made of stainless steel AISI 316L provides almost doubled surface area in comparison with rigid pipe applications. Greater surface area means better heat transfer capacity and higher efficiency.
- ✓ The creates a turbulent flow in the stainless steel (AISI 316L) hose, which has a growing impact on the transfer of heat. An assessment of the laminar flow, the temperature stratification is reversed and the flow rate with inside the middle of the hose is decreased. These outcomes significantly enhance the exchanger performance, with extra than 50% extra performance as compared to the traditional tube.
- ✓ Stainless steel (AISI 316L) Hose corrugations keep moving as a result of constant thermal expansion and compression, this movement prevents the lime and residue formation on the hose surface and provides longer service life.
- ✓ A hygienic storage tank.
- ✓ Perfectly matched with heat pumps.
- ✓ When choosing a solar heat source, this is most efficient model.
- ✓ Polyurethane with high quality insulation.
- ✓ No anode rod required and minimum maintenance.
- ✓ No legionella bacteria



SOLIKOMBI	300	500	800	1000
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Product information					
Energy efficiency class	-	C	D	E	E
Heat loss	W	85	140	195	220
Tank volume	Liters	245	460	850	1030
Basic data					
Empty weight	kg	85	120	175	190
Full weight	kg	330	580	1025	1220
Dimensions (height/diameter)	mm	1700x540	1700x750	1730x1010	2030x1010
Maximum working pressure	Bar	6	6	6	6
Max permissible boiler water temperature	C	95	95	95	95
Outer Cylinder Material	-	Electrostatic powder painted ST 37 steel		Leatherette jacket	
Insulating material	-	Polyurethane 50mm 40 kg/m ³		Foam Rubber 80 mm 14kg/m ³	
Tank material	-	HRP 6222/3mm			
Domestic water exchanger (stainless steel AISI 316L)					
Water volume of the heat exchanger	Liters	12	13.5	22.5	27.5
Surface drinking water exchanger	m ²	3.83	4.3	7.23	8.76
Maximum working pressure	Bar	6	6	6	6
Solar heating support (stainless steel AISI 316L)					
Water volume of the heat exchanger	Liters	5.7	6.6	6.6	8.2
Surface drinking water exchanger	m ²	1.83	2.1	2.1	2.6
Maximum working pressure	Bar	6	6	6	6
Thermal output data					
Amount of hot water without reheating at a discharge rate of 8 l/min	Liters	210	420	750	900
Amount of hot water without reheating at a discharge rate of 12 l/min	Liters	180	380	700	820
Pipe Connection					
Feed water in/out	inch	1 1/4"	2"	2"	2"
Underfloor heating in/out	inch	1 1/4"	2"	2"	2"
Electric heater	inch	1 1/4"	2"	2"	2"
Domestic water in/out	inch	3/4"	3/4"	3/4"	3/4"
Solar input/output	inch	3/4"	3/4"	3/4"	3/4"
Sensor	inch	1/2"	1/2"	1/2"	1/2"



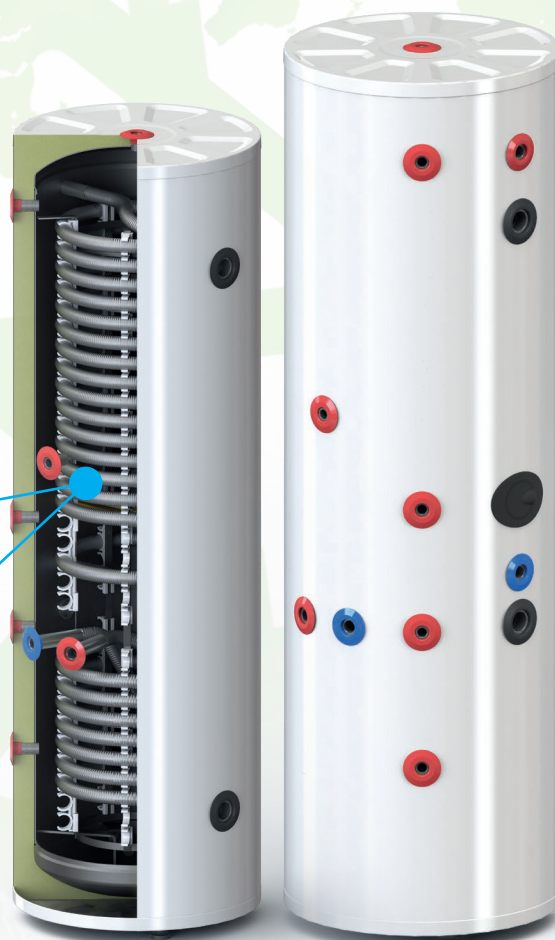
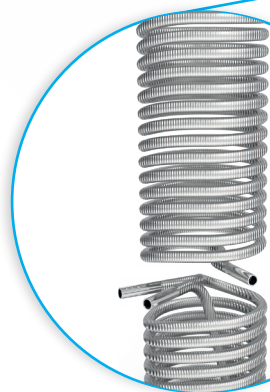
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More than 50% extra performance compared to traditional pipe

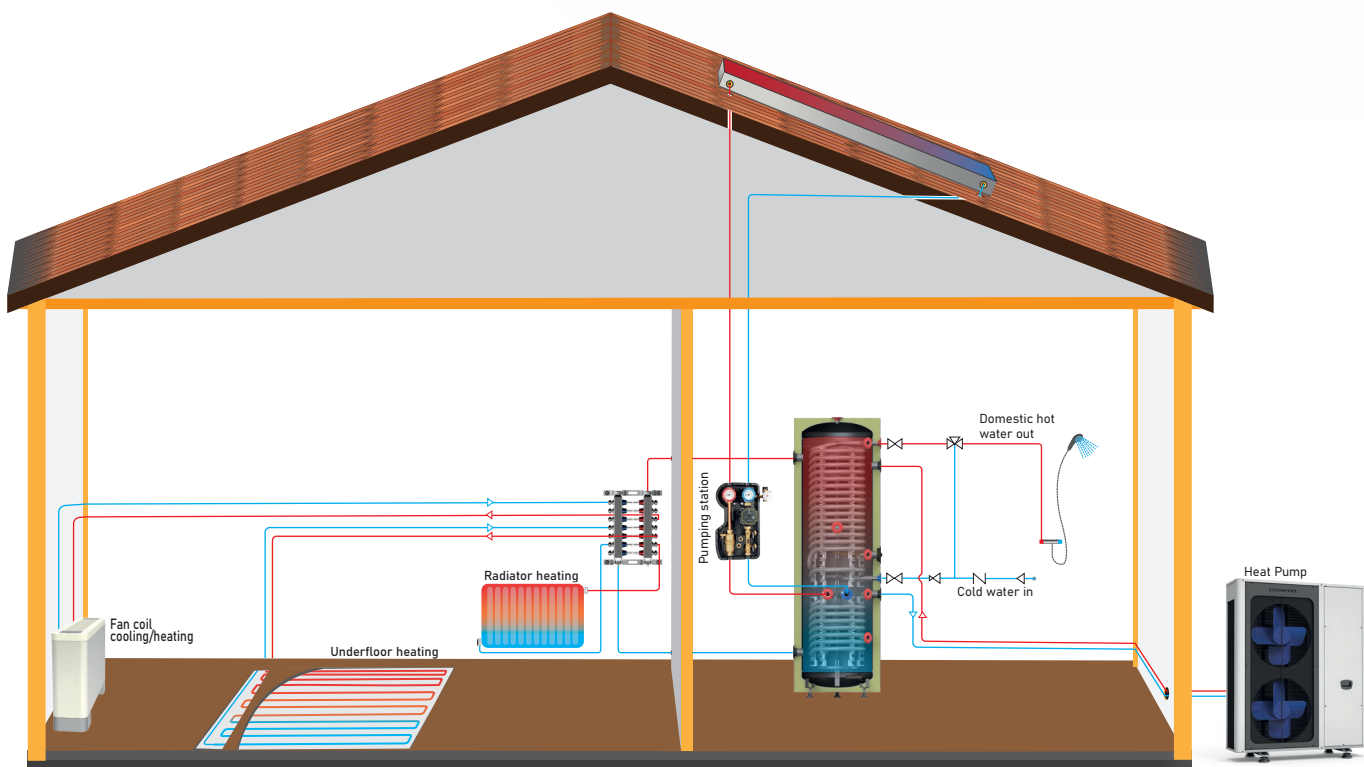
Larger surface area, better heat transfer capacity and higher efficiency

Stainless steel (AISI 316L) hose is suitable for drinking water application and highly resistant to corrosion.

Double flexible pipe



SCHMATICH DIAGRAM OF INSTALLATION



SOLITANK

DHW TANK + BUFFER



GENERAL INFORMATION

- ✓ Domestic hot water heat exchanger made of stainless steel AISI 316L provides almost doubled surface area in comparison with rigid pipe applications. Greater surface area means better heat transfer capacity and higher efficiency.
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- ✓ A hygienic storage tank.
- ✓ Perfectly matched with heat pumps.
- ✓ When choosing a non-solar heat source, this is most efficient model.
- ✓ Polyurethane with high quality insulation.
- ✓ No anode rod required and minimum maintenance.
- ✓ No legionella bacteria



SOLITANK		200	300	500	800	1000
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Product information						
Energy efficiency class	-	C	C	D	E	E
Heat loss	W	74	85	140	195	220
Tank volume	Liters	170	245	460	850	1030

Basic data						
Empty weight	kg	65	85	120	165	190
Full weight	kg	235	330	580	1015	1220
Dimensions (height/diameter)	mm	1200x540	1700x540	1700x750	1850x1010	2130
Max permissible boiler water temperature	C	95	95	95	95	95
Maximum working pressure	Bar	6	6	6	6	6
Outer Cylinder Material	-	Electrostatic powder painted ST 37 steel			Leatherette jacket	
Insulating material	-	Polyurethane 50mm 40 kg/m ³			Foam Rubber 80 mm 14kg/m ³	
Tank material	-	HRP 6222/3mm				

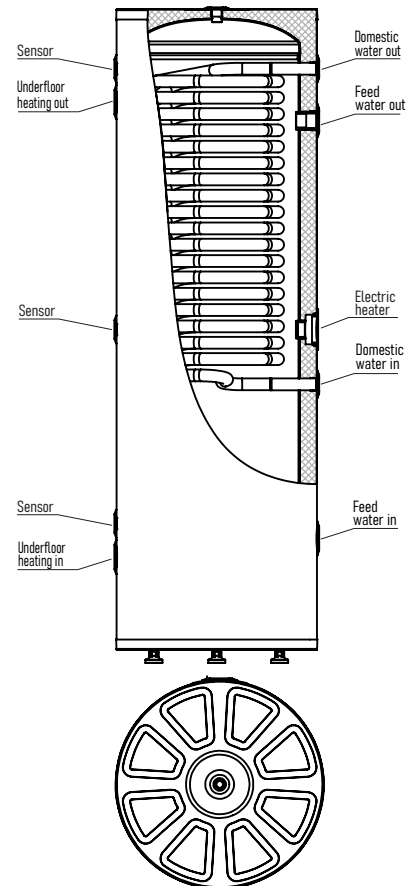
Domestic water exchanger (stainless steel AISI 316L)						
Water volume of the heat exchanger	Liters	12	12	13,5	22,5	27,5
Surface drinking water exchanger	m ²	3.83	3.83	4.3	7.23	8.76
Maximum working pressure	Bar	6	6	6	6	6

Solar heating support (stainless steel AISI 316L)						
Water volume of the heat exchanger	Liters					
Surface drinking water exchanger	m ²					
Maximum working pressure	Bar					

Thermal output data						
Amount of hot water without reheating at a discharge rate of 8 l/min	Liters	140	210	420	750	900
Amount of hot water without reheating at a discharge rate of 12 l/min	Liters	120	180	380	700	820

Pipe connection						
Feed water in/out	inch	1 1/4"	1 1/4"	2"	2"	2"
Underfloor heating in/out	inch	1 1/4"	1 1/4"	2"	2"	2"
Electric heater	inch	1 1/4"	1 1/4"	2"	2"	2"
Domestic water in/out	inch	3/4"	3/4"	3/4"	3/4"	3/4"
Sensor	inch	1/2"	1/2"	1/2"	1/2"	1/2"

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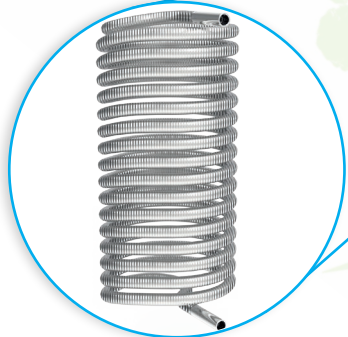


More than 50% extra performance compared to traditional pipe

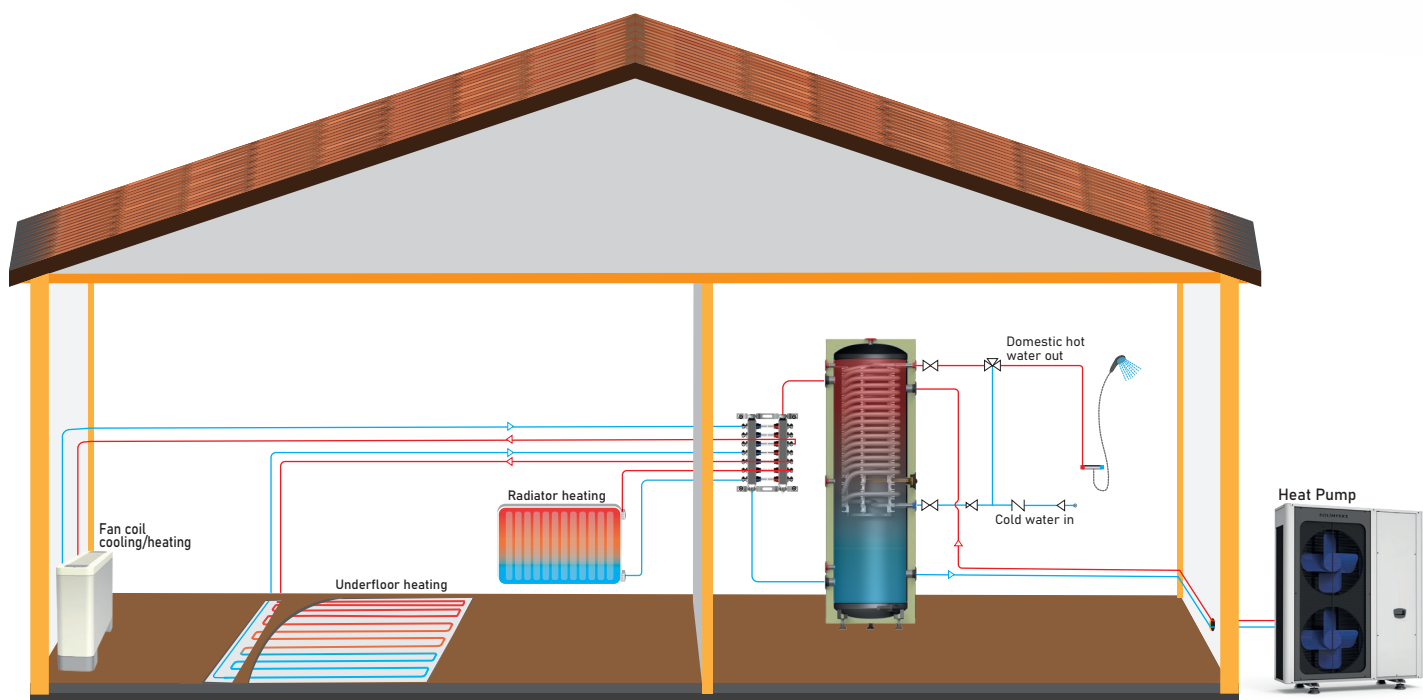
Larger surface area, better heat transfer capacity and higher efficiency

Stainless steel (AISI 316L) hose is suitable for drinking water application and highly resistant to corrosion.

Single flexible pipe



SCHMATIC DIAGRAM OF INSTALLATION



SOLIBUFFER

BUFFER



GENERAL INFORMATION

- ✓ Perfectly matched with heat pumps.
- ✓ When choosing a non-solar heat source, this is most efficient model.
- ✓ Polyurethane with high quality insulation.
- ✓ No anode rod required.
- ✓ Minimum maintenance.
- ✓ Easy installation due to compact design.



SOLIBUFFER	100	200	300	500	800	1000	
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Product information

Energy efficiency class	-	B	B	C	D	E	E
Heat loss	W	45	55	85	140	195	220
Tank volume	Liters	100	170	245	460	850	1030

Basic data

Empty weight	kg	50	60	80	115	140	160
Full weight	kg	150	230	325	575	990	1190
Dimensions (height/diameter)	mm	750x540	1200x540	1725x540	1700x750	185x1010	2130x1010
Maximum working pressure	Bar	6	6	6	6	6	6
Max permissible boiler water temperature	C	95	95	95	95	95	95
Outer Cylinder Material	-	Electrostatic powder painted ST 37 steel				Leatherette jacket	
Insulating material	-	Polyurethane 50 mm 40 kg/m ³				Foam Rubber 80 mm 14kg/m ³	
Tank material	-	HRP 6222/3mm					

Domestic water exchanger (stainless steel AISI 316L)

Water volume of the heat exchanger	Liters						
Surface drinking water exchanger	m ²						
Maximum working pressure	Bar						

Solar heating support (stainless steel AISI 316L)

Water volume of the heat exchanger	Liters						
Surface drinking water exchanger	m ²						
Maximum working pressure	Bar						

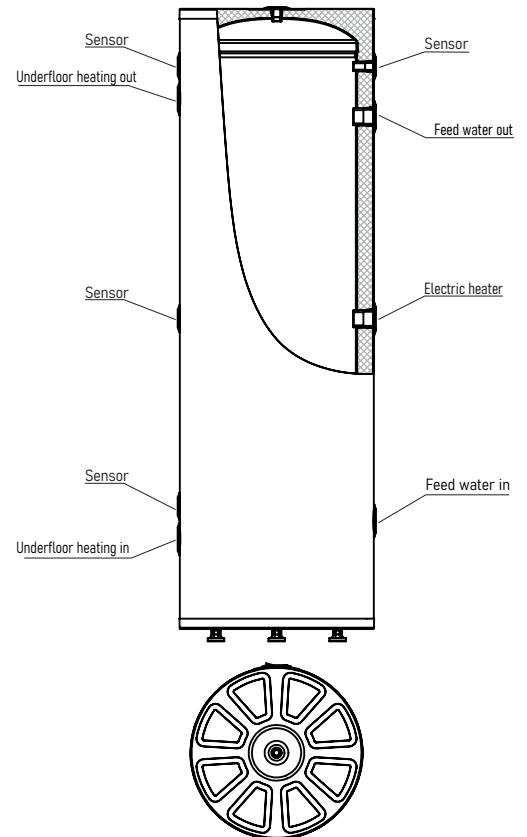
Thermal output data

Amount of hot water without reheating at a discharge rate of 8 l/min	Litres						
Amount of hot water without reheating at a discharge rate of 12 l/min	Litres						

Pipe connection

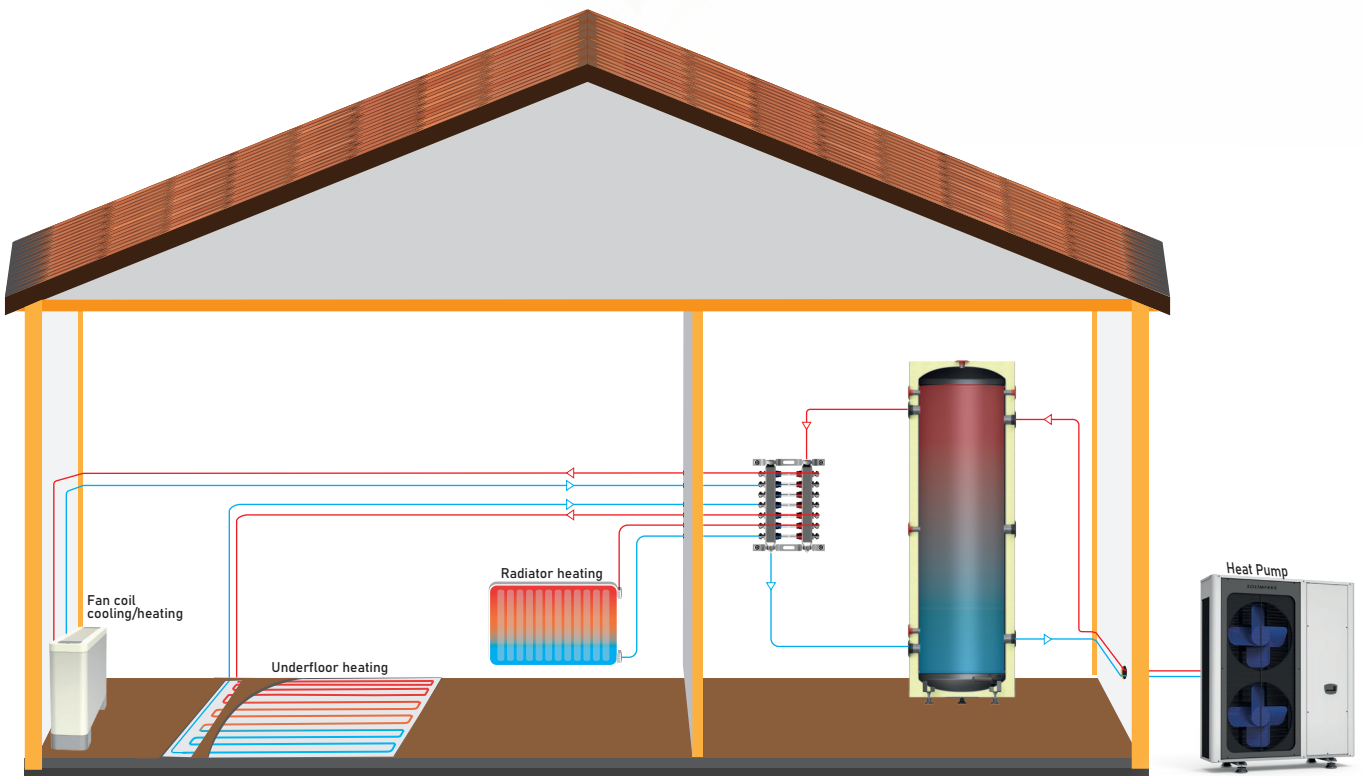
Feed water in/out	inch	1 1/4"	1 1/4"	1 1/4"	2"	2"	2"
Underfloor heating in/out	inch	1 1/4"	1 1/4"	1 1/4"	2"	2"	2"
Electric heater	inch	1 1/4"	1 1/4"	1 1/4"	2"	2"	2"
Sensor	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

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SCHMATIC DIAGRAM OF INSTALLATION



TSV-V ENAMEL BOILER

DOUBLE PIPE



GENERAL INFORMATION

- ✓ The inner surfaces of the boiler are hygienic with advanced technology enamel coating.
- ✓ 200-400 µm enamel thickness.
- ✓ Electrostatic painted galvanized steel body.
- ✓ All surfaces in contact with clean water are hygienic and smooth, which does not allow bacterial growth.
- ✓ It is used for the preparation and storage of hot water together with solar collectors and heat sources.
- ✓ Produces fast hot water thanks to the expanded coil.
- ✓ Polyurethane with high quality insulation.



TSV-V ENAMEL BOILER		200	300	500
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Product information

Energy efficiency class	-	C	C	C
Heat loss	W	69	80	-
Tank volume	Liters	190	290	500

Basic data

Empty weight	kg	105	120	195
Full weight	kg	295	410	695
Dimensions (height/diameter)	mm	1250x540	1850x540	1750x735
Maximum working pressure	Bar	6	6	6
Max permissible boiler water temperature	C	90	90	90
Tank material	-	Enamel coated on low carbon steel		
Outer Cylinder Material	-	Electrostatic painted galvanized steel		
Insulating material	-	Polyurethane 30mm 40 kg/m³		

Heat source exchanger

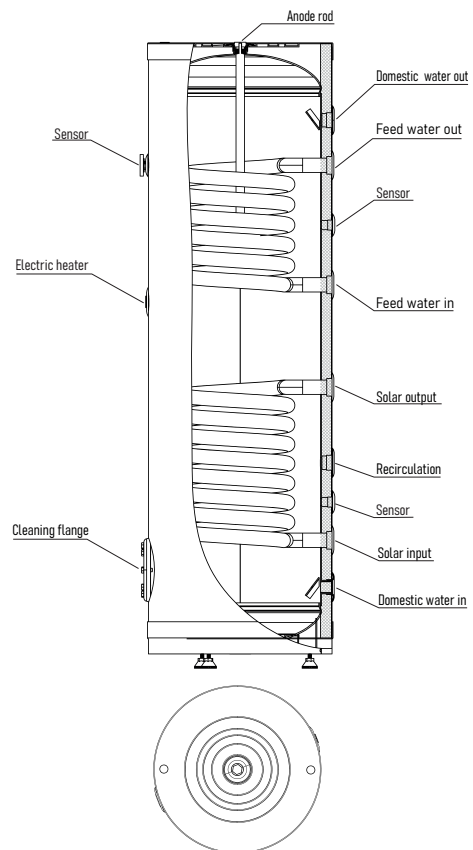
Water volume of the heat exchanger	Liters	4.8	7	10.6
Surface drinking water exchanger	m²	0.6	0.9	1.4
Maximum working pressure	Bar	6	6	6

Solar heating support exchanger

Water volume of the heat exchanger	Liters	7	9.5	16
Surface drinking water exchanger	m²	0.9	1.2	2.2
Maximum working pressure	Bar	6	6	6

Pipe Connection

Domestic water in/out	inch	3/4"	1"	1"
Feed water in/out	inch	1"	1 1/4"	1 1/4"
Solar input/output	inch	1"	1 1/4"	1 1/4"
Electric heater	inch	1 1/4"	1 1/4"	1 1/4"
Sensor	inch	1/2"	1/2"	1/2"
Anode rod	inch	1"	1"	1"
Cleaning flange	inch	3"	3"	3"



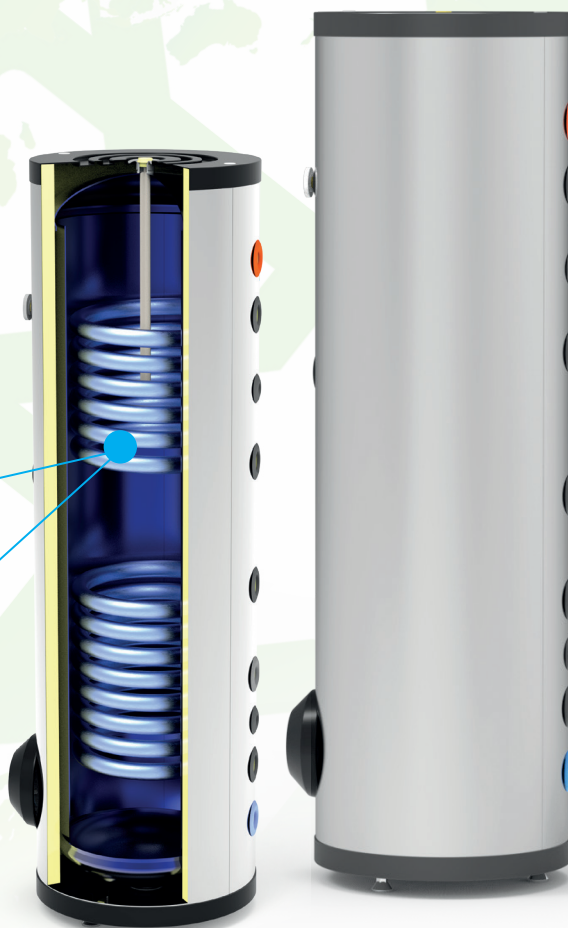
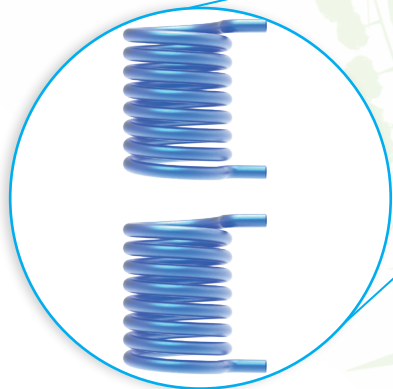
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Cathodic protection with magnesium anode rod.

200-400 μm enamel thickness.

Expanded serpentine surface area.

Double pipe.



SCHMATICH DIAGRAM OF INSTALLATION

