

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.
- ✓ It 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 in the 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 the most efficient model
- ✓ Polyurethane with high quality insulation.
- ✓ No anode rod required and minimum maintenance.
- ✓ No legionella bacteria



SOLIKOMBI

300

500

800

1000

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/m³		Foam Rubber 80 mm 14kg/m³	
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
Domestic water heat exchanger surface area	m²	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
Heat exchanger surface area	m²	1.83	2.1	2.1	2.6
Maximum working pressure	Bar	6	6	6	6

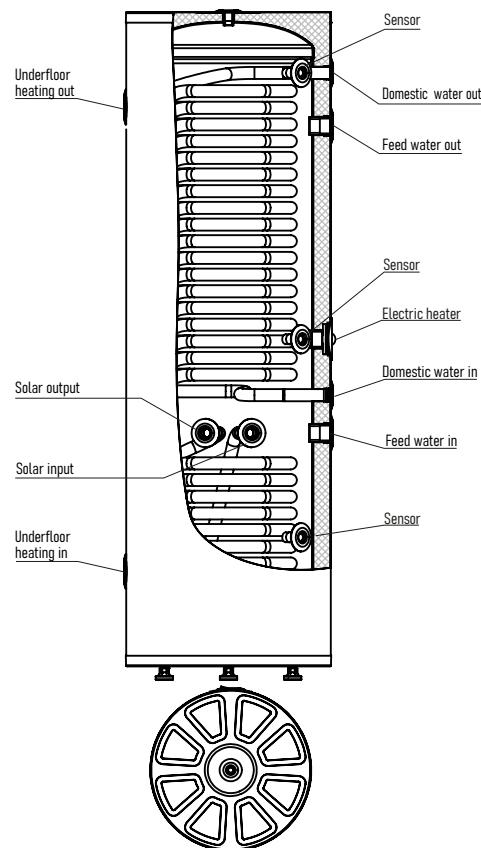
Thermal output data

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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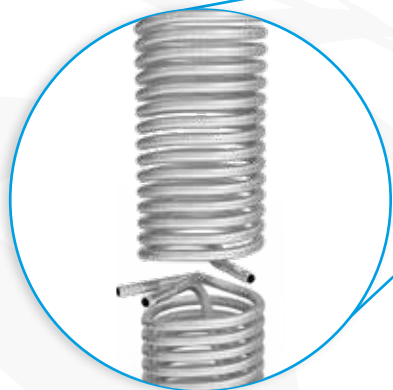
This picture belongs to solikombi 300.

More than 50% extra performance compared to traditional pipe

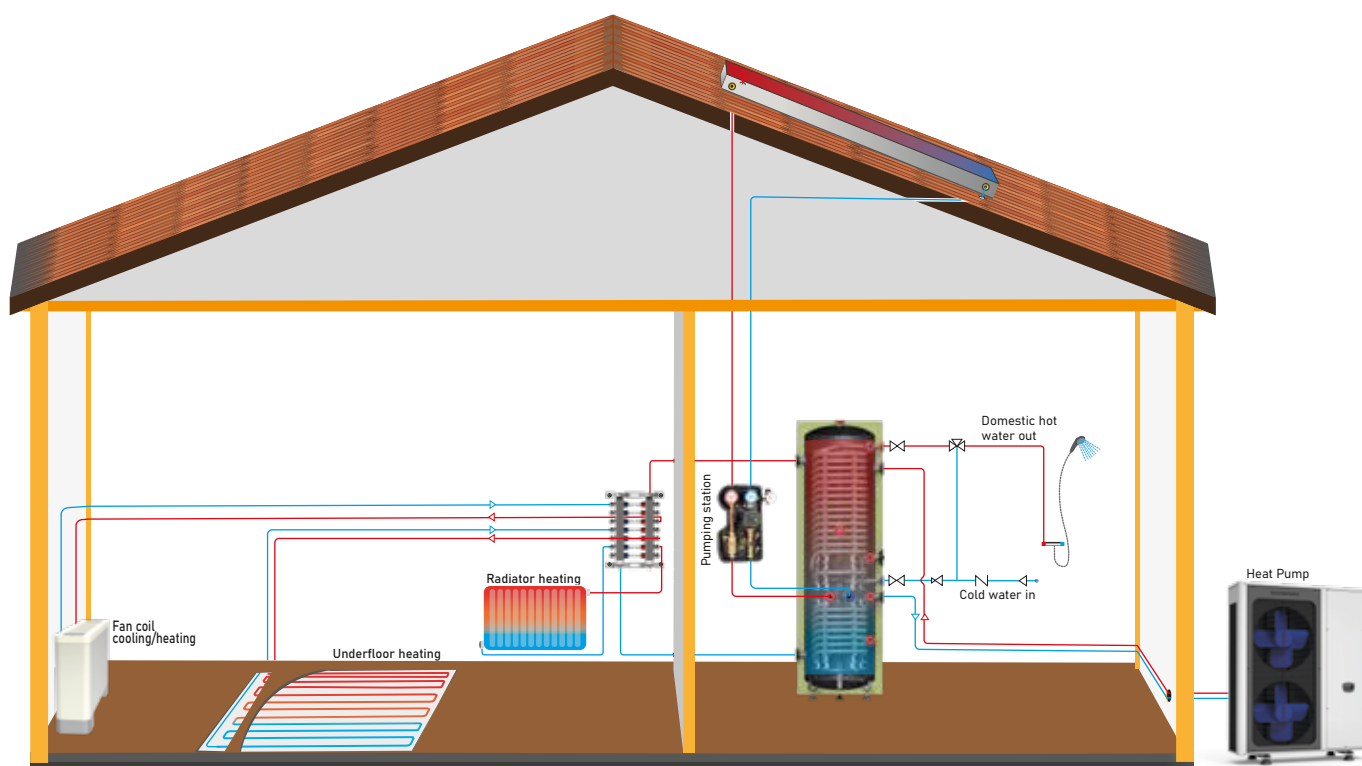
Larger surface area, better heat transfer capacity and higher efficiency

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

Double flexible pipe



SCHMATIC DIAGRAM OF INSTALLATION



SOLITANK

DHW TANK + BUFFER



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- ✓ A hygienic storage tank.
- ✓ Perfectly matched with heat pumps.
- ✓ When choosing a non-solar heat source, this is the 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	130	130	130	130	130
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/m³			Foam Rubber 80 mm 14kg/m³	
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
Domestic water heat exchanger surface area	m²	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					
Heat exchanger surface area	m²					
Maximum working pressure	Bar					

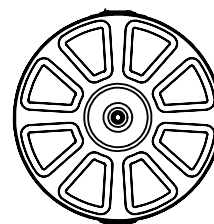
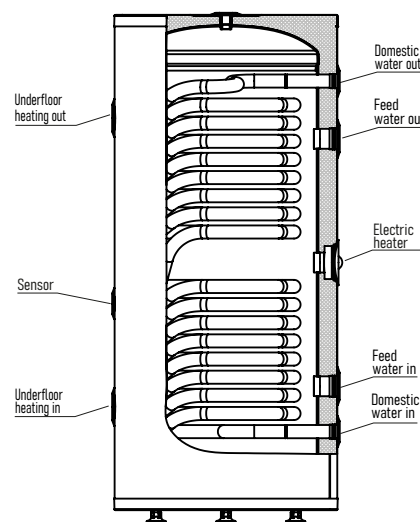
Thermal output data

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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This picture belongs to solitank 200.

More than 50% extra performance compared to traditional pipe

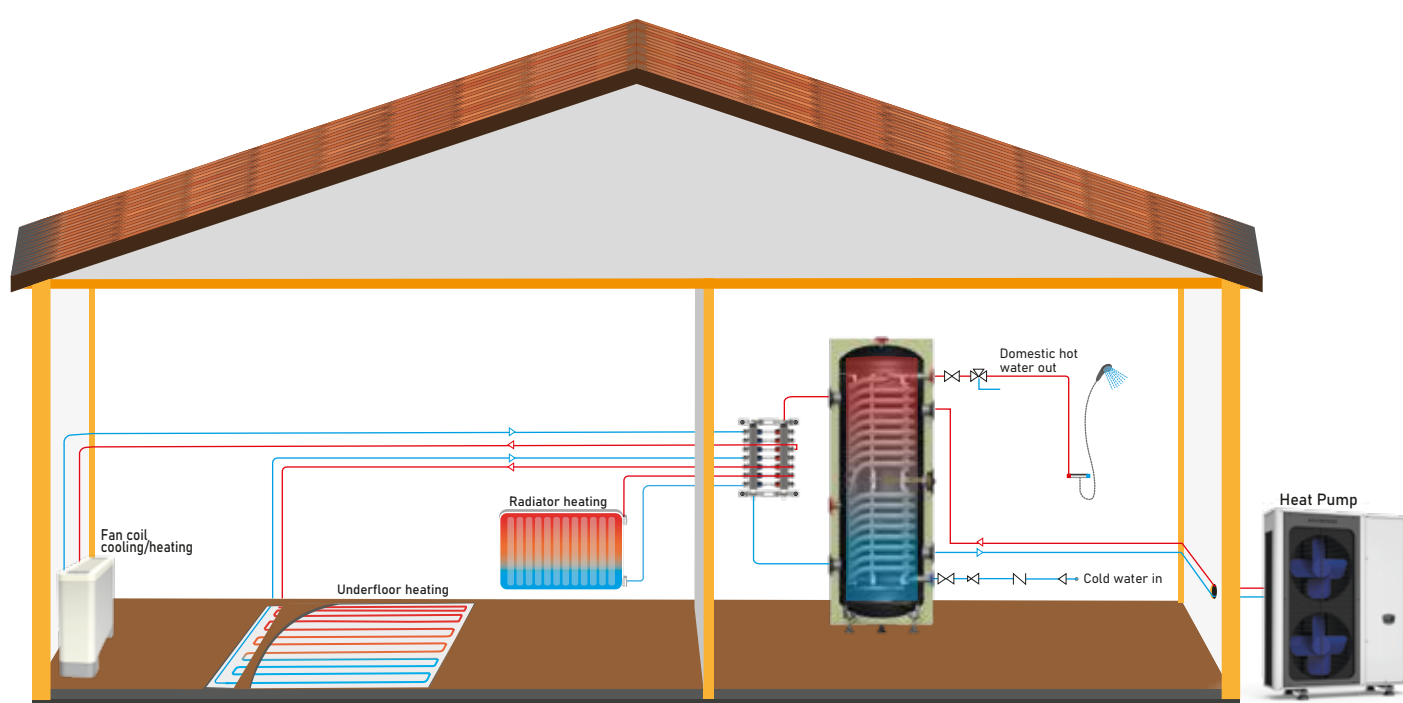
Larger surface area, better heat transfer capacity and higher efficiency

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

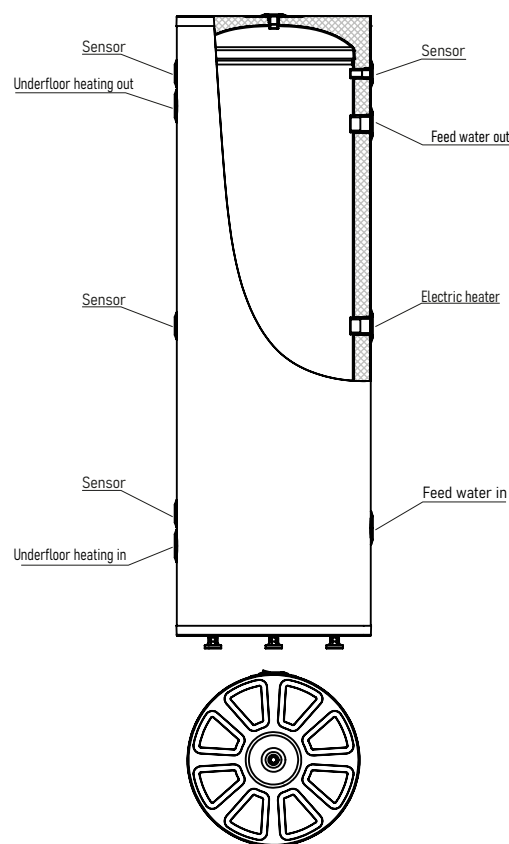
- ✓ Perfectly matched with heat pumps.
- ✓ When choosing a non-solar heat source, this is the most efficient model.
- ✓ Polyurethane with high quality insulation.
- ✓ No anode rod required.
- ✓ Minimum maintenance.
- ✓ Easy installation due to compact design.



SOLIBUFFER		100	200	300	500	800	1000
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	130	130	130	130	130	130
Outer Cylinder Material	-	Electrostatic powder painted ST 37 steel				Leatherette jacket	
Insulating material	-	Polyurethane 50 mm 40 kg/m³				Foam Rubber 80 mm 14kg/m³	
Tank material	-	HRP 6222/3mm					
Domestic water exchanger (stainless steel AISI 316L)							
Water volume of the heat exchanger	Liters						
Domestic water heat exchanger surface area	m²						
Maximum working pressure	Bar						
Solar heating support (stainless steel AISI 316L)							
Water volume of the heat exchanger	Liters						
Heat exchanger surface area	m²						
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"

The diagram illustrates the internal structure of the Solibuffer tank. At the top, there is a curved section containing a sensor and a feed water outlet. Below this, the main body of the tank is shown with a sensor on the left side and an electric heater on the right side. At the bottom, there is a sensor and a feed water inlet. The tank is supported by four legs. A circular detail of the tank's base is shown at the bottom right.

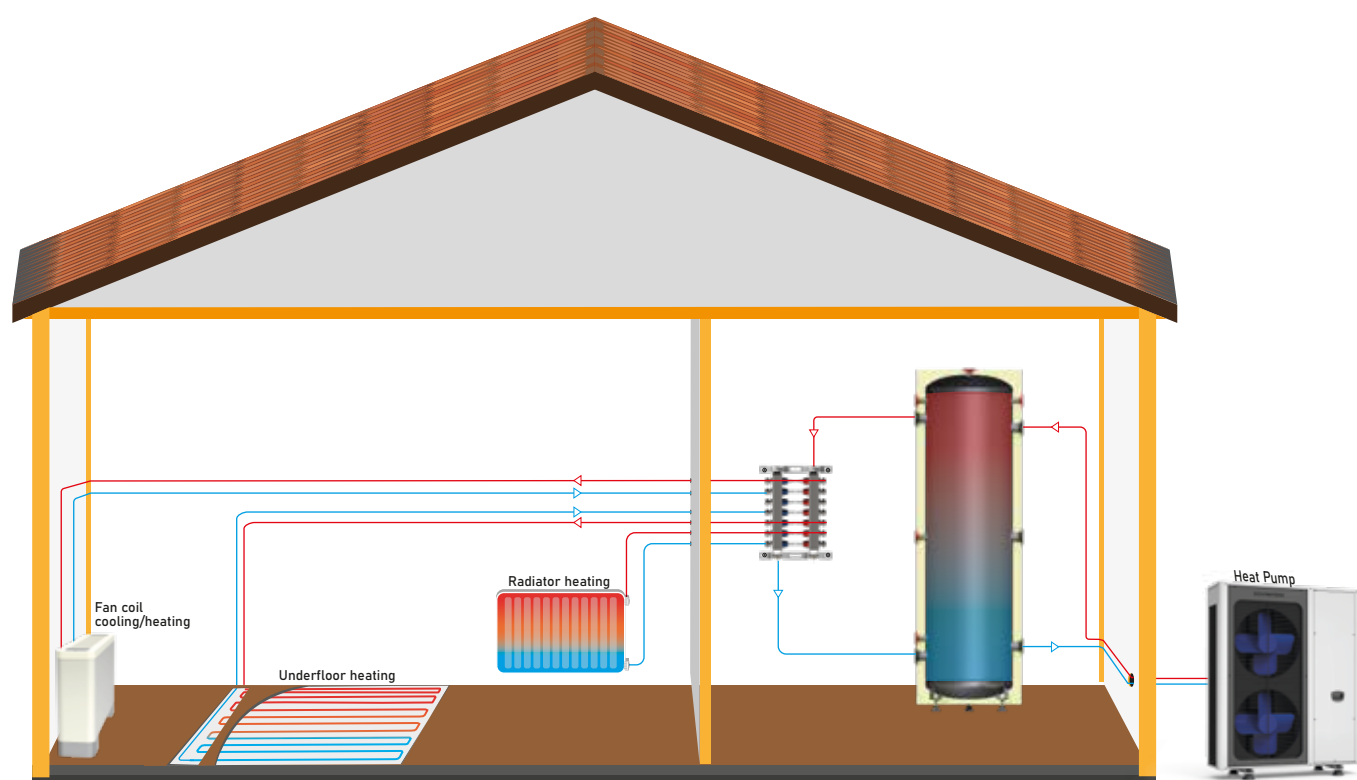
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This picture belongs to solibuffer 300.



SCHMATIC DIAGRAM OF INSTALLATION



ENAMEL COATED BOILERS

TSE-V Single Coil



GENERAL INFORMATION

- ✓ Expanded serpentine surface area, designed for heat pumps.
- ✓ The inner surfaces of the boiler are 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.



TSE-V

200

300

Product information

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

Basic data

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

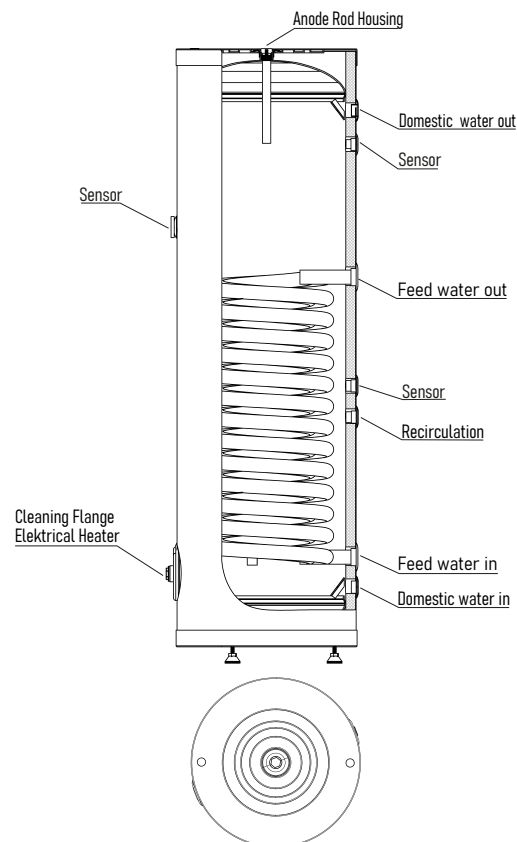
Heat source exchanger

Water volume of the heat exchanger	Liters	12	22
Heat exchanger surface area	m²	2.1	3.3
Maximum working pressure	Bar	6	6

Pipe Connection

Domestic water in/out	inch	1"	1"
Feed water in/out	inch	1"	1"
Cleaning Flange	inch	DN 80	DN 100
Electric heater	inch	1 1/4"	1 1/4"
Anode rod	inch	1"	1"
Sensor	inch	1/2"	1/2"

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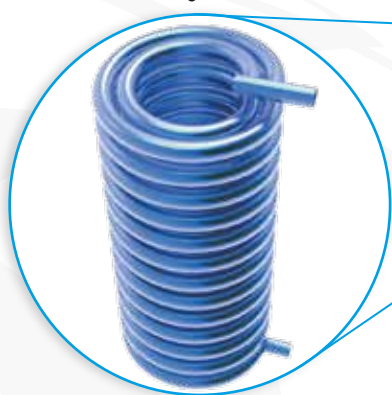


Cathodic protection with magnesium anode rod.

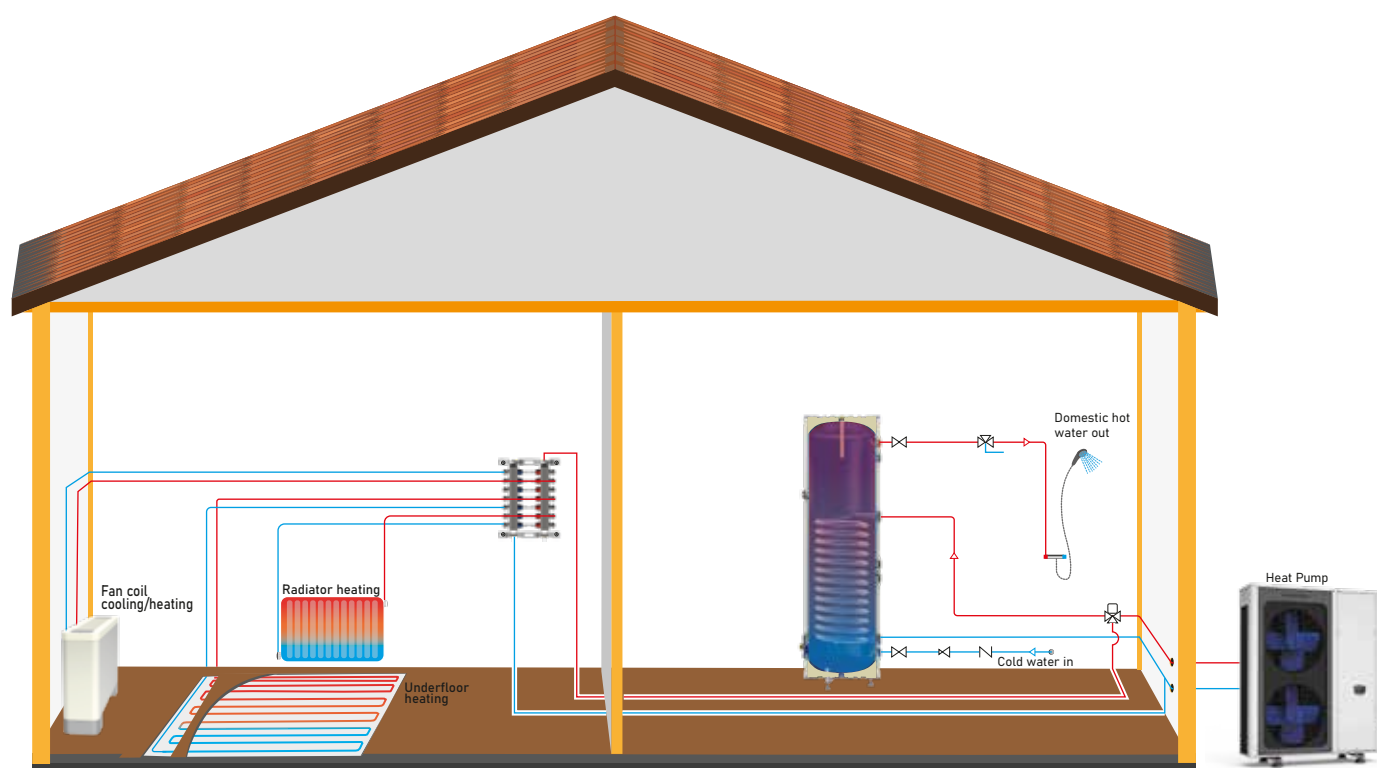
200-400 μm enamel thickness.

Expanded serpentine surface area.

Single Coil.



SCHMATIC DIAGRAM OF INSTALLATION



INVERTER MONOBLOCK HEAT PUMP



GENERAL INFORMATION

- ✓ Solimpeks Heat Pumps, which are mounted outdoors with a monoblock structure in which all equipments are gathered in a single body, save space for the user indoors and offer special connection options with a wide range of accessories in line with the 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, hereby, 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	m³/h	>1,5	>2	>2,8
Sound level	dB	50	59	59

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

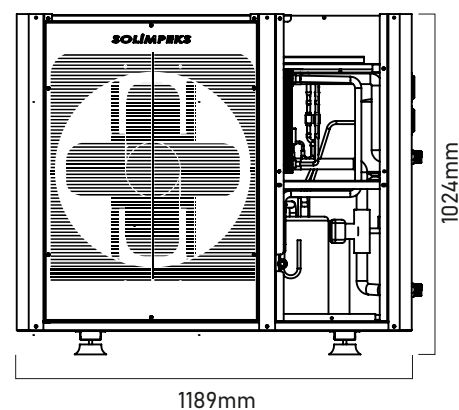
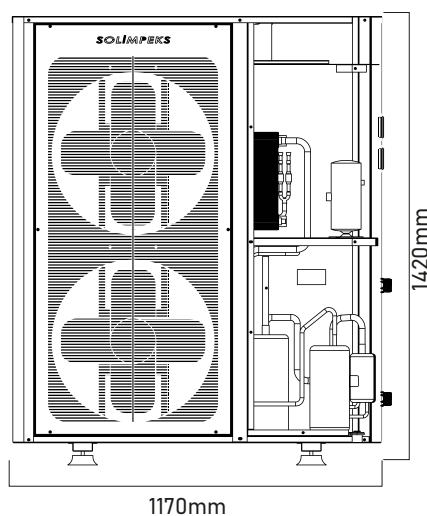
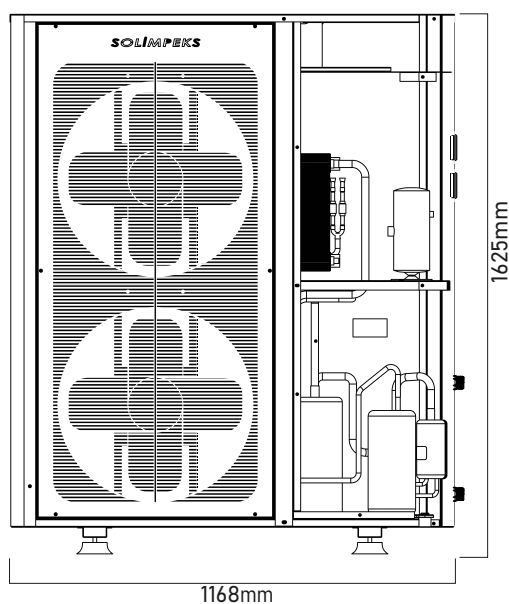
2-) Ambient temperature 7 C / Water inlet-outlet 40-45 C

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

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TECHNICAL SPECIFICATIONS		8 kW	12 kW	16 kW
Dimensions	mm	1189x356x1024	1170x340x1420	1168x346x1625
Weight	kg	110	140	150

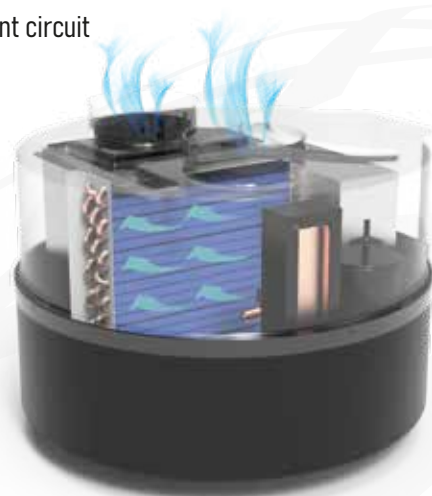




BCP HEAT PUMP

GENERAL INFORMATION

- ✓ Solimpeks BCP Heat pumps series are highly efficient, 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 thanks to pressure and temperature safety devices used in the refrigerant 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
- ✓ Compatible with all boilers



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	m³/h	0,8
Diameter	mm	668
Height	mm	528
Weight	kg	45

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



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 from 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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