



ENERGY SYSTEMS

Solarico®

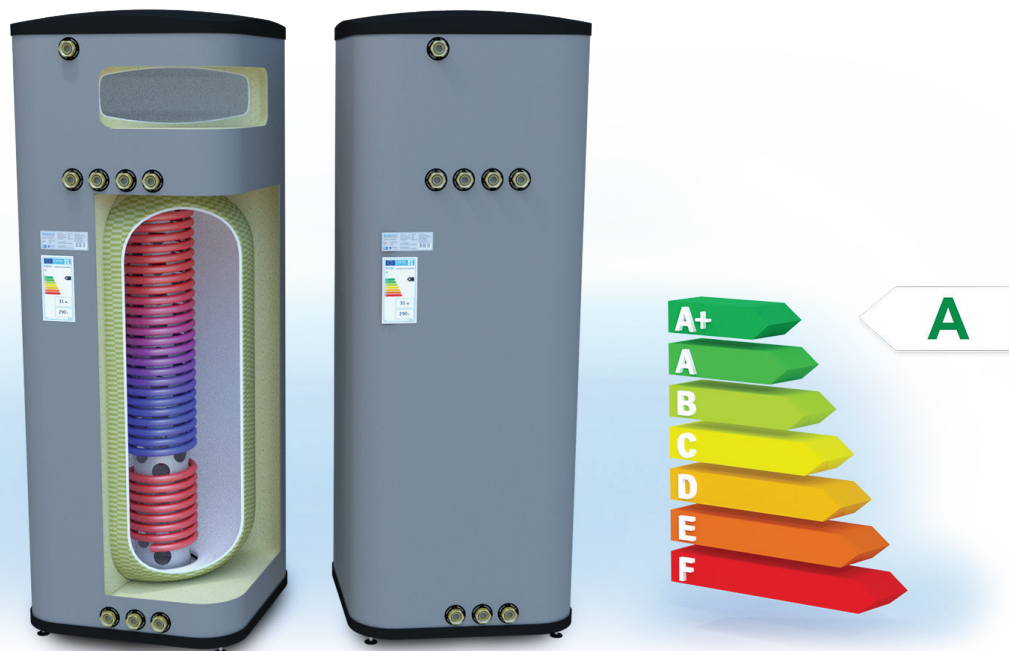
CATALOGUE 2021

*UniQube
Heart of your system*



www.solarico.eu

UniQube Drain Back



UniQube Drain Back

Solar Storage Tank

Domestic Water Heater

Stratified Separator Storage Tank

- UTILIZES MUCH MORE SOLAR ENERGY
because drain back solar systems can be sized with much more collectors - they absorb more solar energy providing more savings.
- SOLAR SUPPORT FOR THE HEATING SYSTEM
because drain back solar systems can be sized with much more collectors - this energy can be used by the heating system.
- OVER HEATING AND FREEZE PROTECTION
are active because of principal of work - when pump stops circulating, heating fluid from collectors is draining down into the drainage reservoir, so the only care is to do a proper piping installation.
- CHEAPER INSTALLATION
Drain back systems do not require expansion vessels, check valve, air valve or additional overheating protection. This system can even work with water as heating fluid instead of antifreeze.
- SOLAR SYSTEM SECURITY
low risk of overheating, hot fluid danger, freezing and damaging its elements, which is conditioned only by proper installation execution.



SOLAR
SUPPORT FOR
THE HEATING
SYSTEM

ENERGY
EFFICIENCY
A

30 YEAR
HOT WATER TANK
WARRANTY

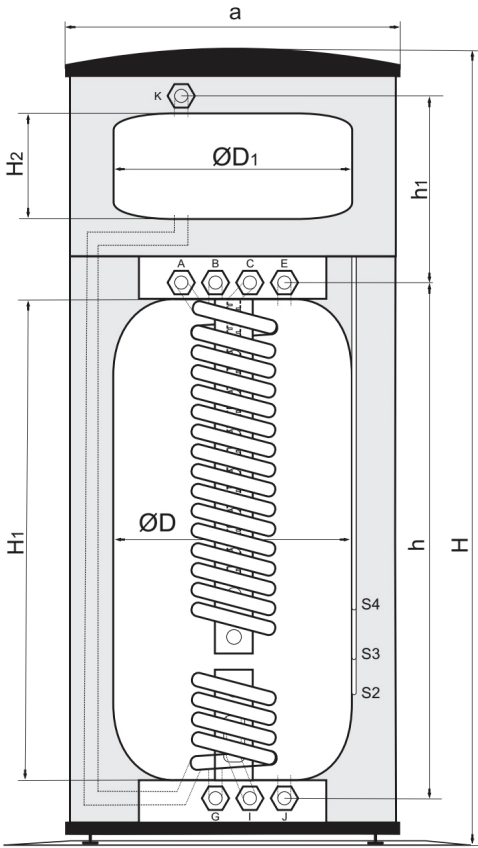
RELIABILITY
LOW-MAINTENANCE
SIMPLICITY

UNIQUEBE DRAIN BACK MODEL - SOLAR STORAGE TANK,
DOMESTIC WATER HEATER, STRATIFIED SEPARATOR
STORAGE TANK

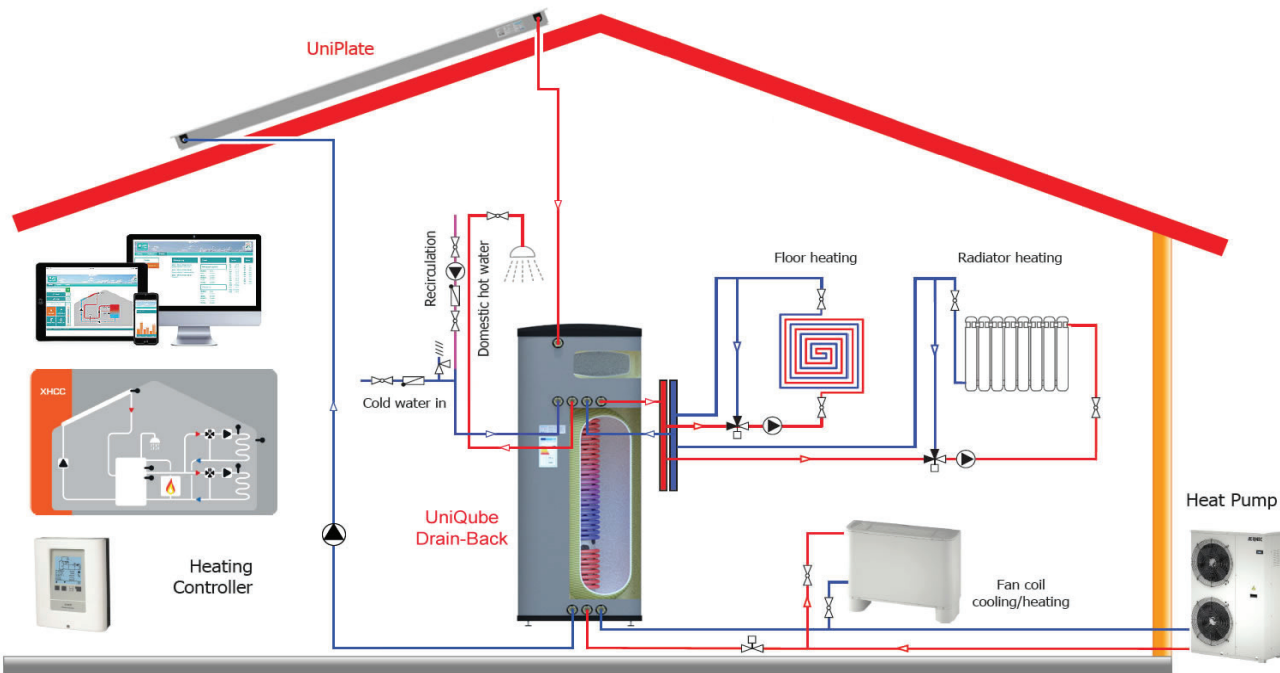
TYPE SQ-BPSW DB		310
D (diameter)	(mm)	620
D1 (diameter)	(mm)	600
H1 (height)	(mm)	1300
H2 (height)	(mm)	140
h (connectors)	(mm)	1470
h1 (connectors)	(mm)	370
H (height)	(mm)	2000
a (width)	(mm)	734
max. working temp.	(°C)	90
max. working pressure	(bar)	6
max. test pressure	(bar)	9
Net tank capacity	(liters)	290
Approx. weight	(kg)	104
S2 Solar sensor position	(mm)	1110
S3 Heating sensor position	(mm)	910
S4 DHW sensor position	(mm)	710
Pivot measurement	(mm)	2130

Solar heat exchanger		
dimension		5/4"
max. working pressure	(bar)	2,5
max. test pressure	(bar)	1,5
capacity	(liters)	5
output area	(m²)	1,2
reservoir volume	(liters)	40

Water heat exchanger		
dimension		5/4"
max. working pressure	(bar)	10
max. test pressure	(bar)	15
capacity	(liters)	15
output area	(m²)	3,8



- A - Cold water in
- B - Hot water out
- C - Heating in
- E - Heating out
- K - Solar in
- G - Solar out
- I - Boiler in
- J - Boiler out
- S2 - Solar sensor
- S3 - Heating sensor
- S4 - DHW sensor

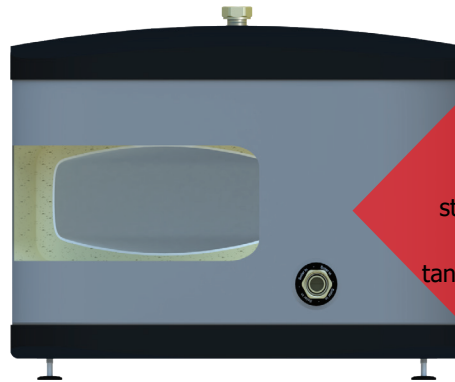


UniQube Drain Back Reservoir



Solar Draining Tank

- **CONVERTS ANY SOLAR TANK TO DRAIN BACK TANK**
adding this reservoir to the solar thermal circuit this reservoir will convert your system into the drain back solar thermal system.
- **UTILIZES MAXIMUM OF SOLAR THERMAL HEAT EXCHANGER**
with drain back solar thermals you can install as much collector's power as solar heat exchanger can transfer.
- **UNIQUE PERFORMANCES**
this reservoir is produced according to our UniQube standards. Quboid shape, insulation thickness of UniQubes, flat connectors, perfect design.
- **EASY TO INSTALL**
Drain back reservoir can be installed on a simple table or on a wall, 650mm above the floor, if on the same floor is installed its UniQube solar tank.
- **LONG WARRANTY TERM**
this reservoir is warrantied by 10 years!

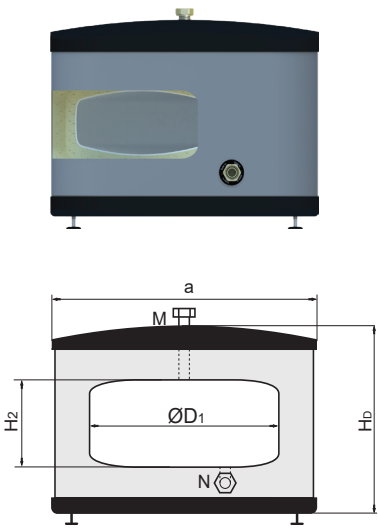


40 LITER COMPACT DRAIN BACK RESERVOIR

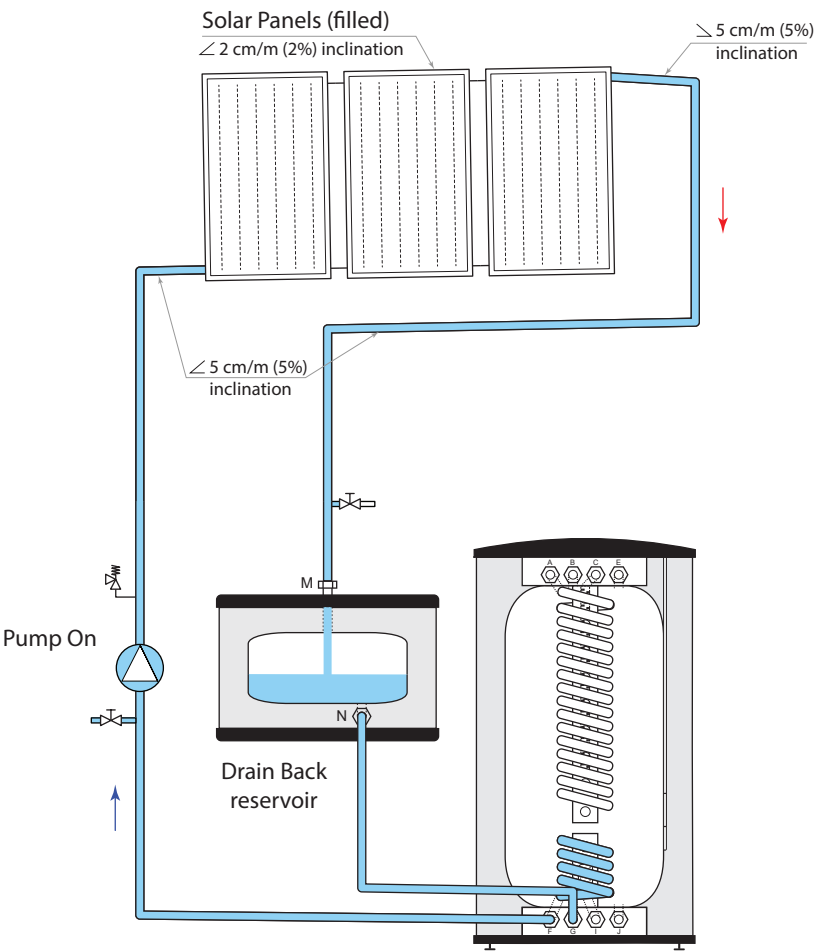
Insulated with polyurethane, minimizing the heat loss in idle or stand by mode. The part of the Solar thermal loop, positioned above the tank, can reach volume up to 25 liters, which allows installation of bigger number of solar thermal panels.



UNIQUE DRAIN BACK RESERVOIR		
D1 (diameter)	(mm)	600
Hb (height)	(mm)	450
H2 (height)	(mm)	140
a (width)	(mm)	734
connections M, N		5/4"
max. working pressure	(bar)	1,5
max. test pressure	(bar)	2,5
reservoir volume	(liters)	40
approx. weight	(kg)	16



M - Solar in
N - Drain Back out



*UniQube
Heart of your system*



UniQube Heat pump

Integrated Heat Pump

Composite

Solar Storage Tank

Domestic Water Heater

Stratified Separator Storage Tank

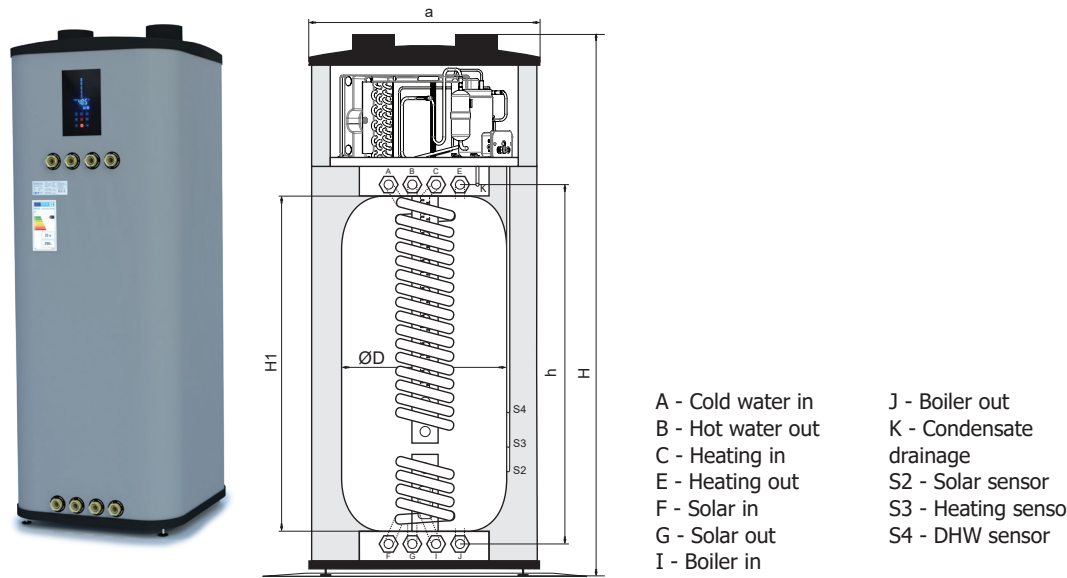
Solar Storage Tank

Domestic Water Heater

Stratified Separator Storage Tank

- High C.O.P.
C.O.P. (coefficient of performance) is a rating which tells us how much heat is produced compared to the amount of electricity used.
- Manufactured in Europe according to highest standards.
- Simple installation and control;
Heat pumps for sanitary water are simple to install into your area and they're even simpler to control. You'll have virtually no work with them.
- Heat transmitter;
Coiled in the inside of buffer water container, it has a lifespan that is practically unlimited, since it is not in direct contact with sanitary water.
- Energy class A
Heat pumps for sanitary water with the A Energy Class are placed among the best energy efficient machines on the European market.

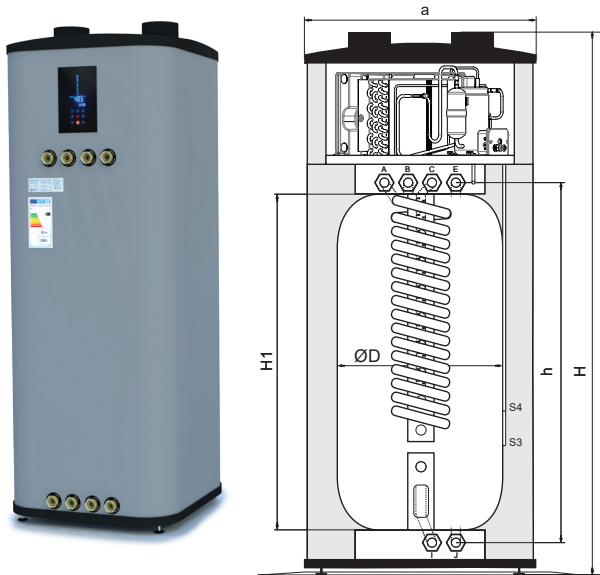
UNIQUE HEAT PUMP UNIT		
TYPE SQ-BPSW HP 310		3000
Operational area of the compressor	°C	-3~35
Max. temperature of output water	°C	55
Heat output	W	2500
C.O.P. A20/W15-W45		4.1
Type of compressor		Hitachi - rotary
Compressor consumption	W	695
Rated current of the compressor	A	3.2
Refrigerant		R134a
Electricity supply		230 V / 1 Ph / 50 Hz
Required fuse	A	16
Noise level	dB(A)	48
Airflow	m³	500
Available pressure	Pa	60
Diameter of air pipe	mm	150
Max. length of air pipe	m	10
Net weight of heat pump unit	kg	40
Use of hot water cycle		XL
Sanitary water heating energy class		A



Domestic Water Heater Stratified Separator Storage Tank

- High C.O.P.
C.O.P. (coefficient of performance) is a rating which tells us how much heat is produced compared to the amount of electricity used.
- Manufactured in Europe according to highest standards.
- Simple installation and control;
Heat pumps for sanitary water are simple to install into your area and they're even simpler to control. You'll have virtually no work with them.
- Heat transmitter;
Coiled in the inside of buffer water container, it has a lifespan that is practically unlimited, since it is not in direct contact with sanitary water.
- Energy class A
Heat pumps for sanitary water with the A Energy Class are placed among the best energy efficient machines on the European market.

UNIQUBE HEAT PUMP UNIT		
TYPE SQ-BPW HP 310		3000
Operational area of the compressor	°C	-3~35
Max. temperature of out-put water	°C	55
Heat output	W	2500
C.O.P. A20/W15-W45		4.1
Type of compressor		Hitachi - rotary
Compressor consumption	W	695
Rated current of the compressor	A	3.2
Refrigerant		R134a
Electricity supply		230 V / 1 Ph / 50 Hz
Required fuse	A	16
Noise level	dB(A)	48
Airflow	m³	500
Available pressure	Pa	60
Diameter of air pipe	mm	150
Max. length of air pipe	m	10
Net weight of heat pump unit	kg	40
Use of hot water cycle		XL
Sanitary water heating energy class		A



- A - Cold water in

B - Hot water out

C - Heating in

E - Heating out

I - Boiler in

J - Boiler out

K - Condensate drainage
- S3 - Heating temperature ser

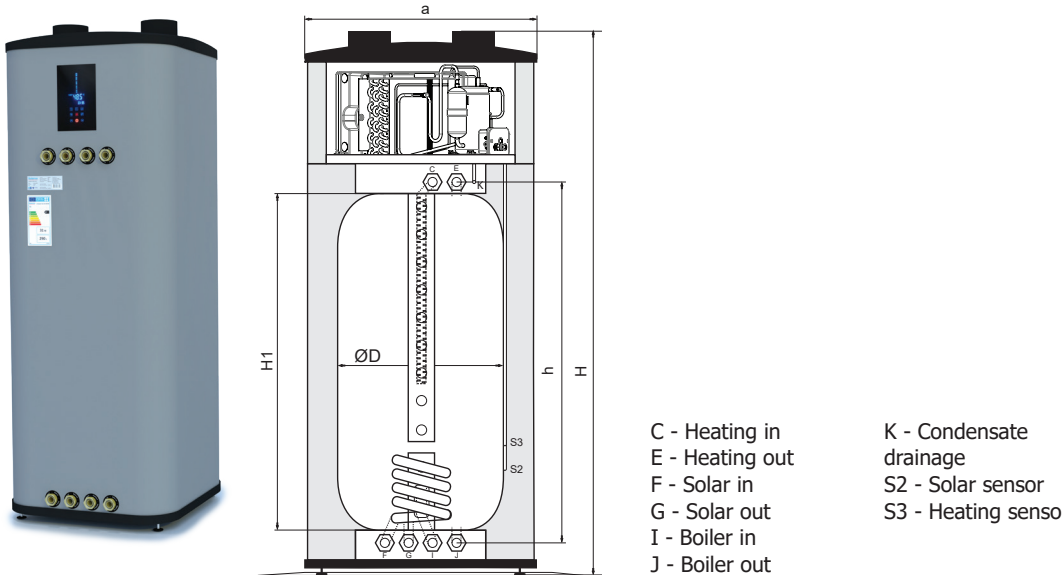
S4 - DHW temp sensor

Solar Storage Tank

Stratified Separator Storage Tank

- High C.O.P.
C.O.P. (coefficient of performance) is a rating which tells us how much heat is produced compared to the amount of electricity used.
- Manufactured in Europe according to highest standards.
- Simple installation and control;
Heat pumps for sanitary water are simple to install into your area and they're even simpler to control. You'll have virtually no work with them.
- Heat transmitter;
Coiled in the inside of buffer water container, it has a lifespan that is practically unlimited, since it is not in direct contact with sanitary water.
- Energy class A
Heat pumps for sanitary water with the A Energy Class are placed among the best energy efficient machines on the European market.

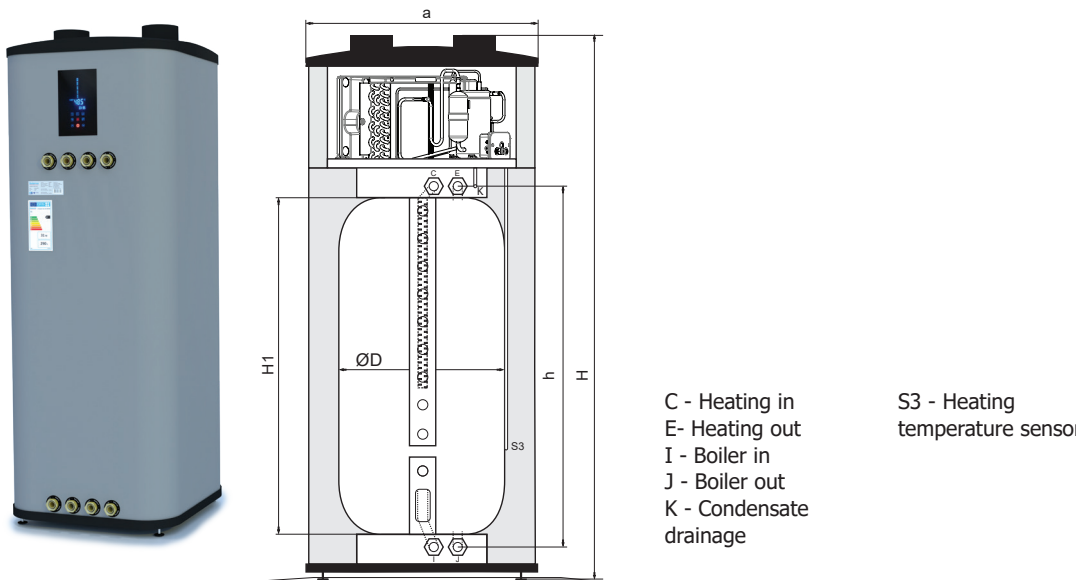
UNIQUBE HEAT PUMP UNIT		
TYPE SQ-BPS HP 310		3000
Operational area of the compressor	°C	-3~35
Max. temperature of output water	°C	55
Heat output	W	2500
C.O.P. A20/W15-W45		4.1
Type of compressor		Hitachi - rotary
Compressor consumption	W	695
Rated current of the compressor	A	3.2
Refrigerant		R134a
Electricity supply		230 V / 1 Ph / 50 Hz
Required fuse	A	16
Noise level	dB(A)	48
Airflow	m³	500
Available pressure	Pa	60
Diameter of air pipe	mm	150
Max. length of air pipe	m	10
Net weight of heat pump unit	kg	40
Use of hot water cycle		XL
Sanitary water heating energy class		A



Stratified Separator Storage Tank

- High C.O.P.
C.O.P. (coefficient of performance) is a rating which tells us how much heat is produced compared to the amount of electricity used.
- Manufactured in Europe according to highest standards.
- Simple installation and control;
Heat pumps for sanitary water are simple to install into your area and they're even simpler to control. You'll have virtually no work with them.
- Heat transmitter;
Coiled in the inside of buffer water container, it has a lifespan that is practically unlimited, since it is not in direct contact with sanitary water.
- Energy class A
Heat pumps for sanitary water with the A Energy Class are placed among the best energy efficient machines on the European market.

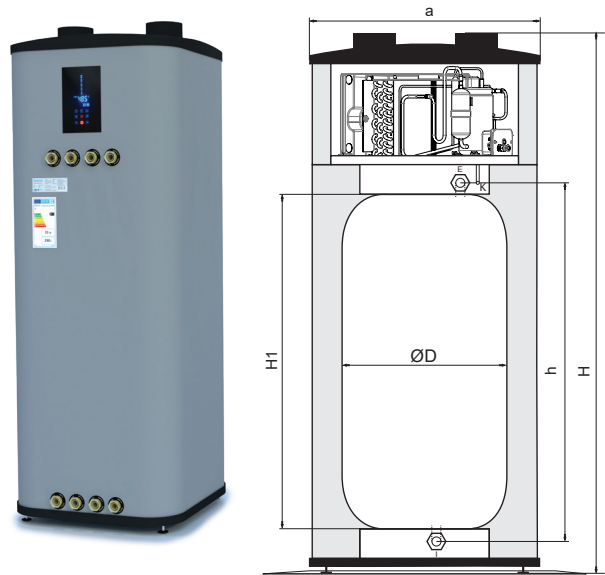
UNIQUBE HEAT PUMP UNIT		
TYPE SQ-BP HP 310		3000
Operational area of the compressor	°C	-3~35
Max. temperature of out-put water	°C	55
Heat output	W	2500
C.O.P. A20/W15-W45		4.1
Type of compressor		Hitachi - rotary
Compressor consumption	W	695
Rated current of the compressor	A	3.2
Refrigerant		R134a
Electricity supply		230 V / 1 Ph / 50 Hz
Required fuse	A	16
Noise level	dB(A)	48
Airflow	m³	500
Available pressure	Pa	60
Diameter of air pipe	mm	150
Max. length of air pipe	m	10
Net weight of heat pump unit	kg	40
Use of hot water cycle		XL
Sanitary water heating energy class		A



Buffer Storage Tank

- High C.O.P.
C.O.P. (coefficient of performance) is a rating which tells us how much heat is produced compared to the amount of electricity used.
- Manufactured in Europe according to highest standards.
- Simple installation and control;
Heat pumps for sanitary water are simple to install into your area and they're even simpler to control. You'll have virtually no work with them.
- Heat transmitter;
Coiled in the inside of buffer water container, it has a lifespan that is practically unlimited, since it is not in direct contact with sanitary water.
- Energy class A
Heat pumps for sanitary water with the A Energy Class are placed among the best energy efficient machines on the European market.

UNIQUBE HEAT PUMP UNIT		
TYPE SQ-B HP 310		3000
Operational area of the compressor	°C	-3~35
Max. temperature of output water	°C	55
Heat output	W	2500
C.O.P. A20/W15-W45		4.1
Type of compressor		Hitachi - rotary
Compressor consumption	W	695
Rated current of the compressor	A	3.2
Refrigerant		R134a
Electricity supply		230 V / 1 Ph / 50 Hz
Required fuse	A	16
Noise level	dB(A)	48
Airflow	m³	500
Available pressure	Pa	60
Diameter of air pipe	mm	150
Max. length of air pipe	m	10
Net weight of heat pump unit	kg	40
Use of hot water cycle		XL
Sanitary water heating energy class		A



E - Heating out
I - Boiler in
K - Condensate drainage

*UniQube
Heart of your system*



UniQube Heat Pump⁺

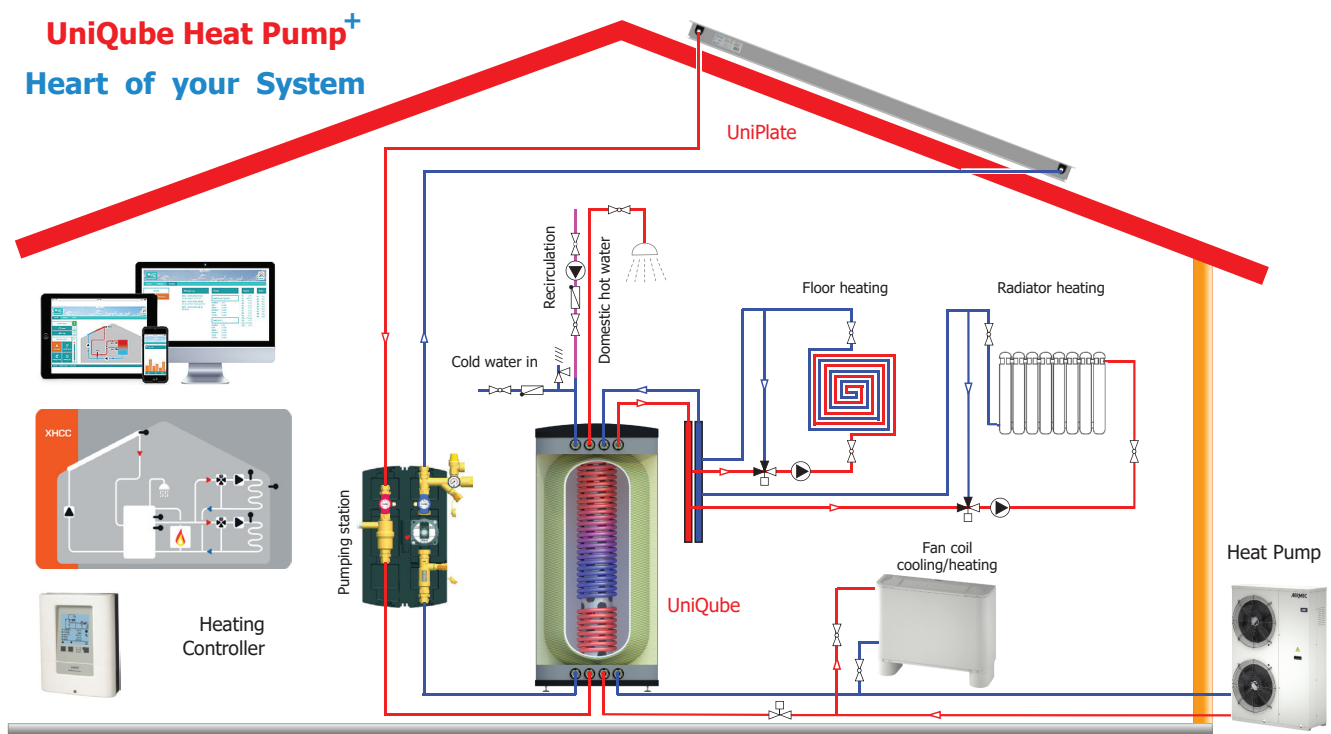
Composite

Solar Storage Tank

Domestic Water Heater

Stratified Separator Storage Tank

- **UniQube Heat Pump⁺** is special high energy efficiency package, solution for heating residential and industrial buildings. It contains UniQube central hot water storage tank, Heat Pump unit, digital controller Sorel XHCC.
Optional:
 - UniPlate solar thermal collector set.
 - Sorel Caleon Clima, a wireless room temperature controllers.
- UniQube central hot water storage tanks are integrating functions of hygienic water heater, heat accumulator, buffer, hydraulic separator, solar water heater, and optional electric heater back up. UniQube central hot water storage tanks operate by the principal of thermal stratification providing hot water after a short time of heating, because it is not necessary to heat the whole volume in order to get usable hot water. UniQube buffer water heaters always transfer the sun heat to the home heating system.
- The heat pump unit is buyers choice. Our recommendation minimum is unit with inverter compressor, inverter fan and inverter circulating pump. A heat pump for outdoor installation, reversible heating/cooling, that works in the range of temperatures from -20°C to +42°C. Water heating should be within the range of 40°C to +60°C by the weather compensating principle.
- Sorel is leading German manufacturer for automatization of heating systems. Sorel XHCC is the latest controller that provides 100% automatic control over the heating system, maximizing the comfort and improving energy savings. Weather compensated control of the heat pump unit is also available when using this controller. Sorel's Caleon Clima is programmable room temperature controller that controls the temperature in both regimes: heating and cooling. User can remotely monitor or control the parameters of the heating/cooling system, using tablet, pc or mobile phone.
- **UniQube Heat Pump⁺** package produces hygienic hot water, controls the production of hot water, floor heating, radiator heating, fancoil heating and cooling, solar support for the heating system, back up heating device.

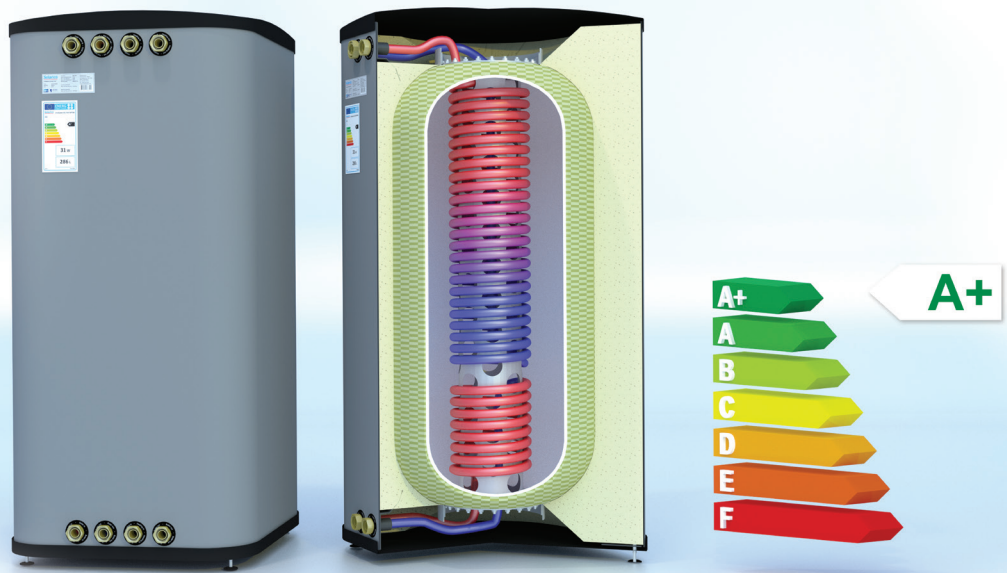


UniQube Heat Pump⁺



UNIQUEBE SQ-BPSW 440 HEAT PUMP ⁺									
UNIQUEBE SQ-BPSW 310 HEAT PUMP ⁺									
AERMEC ANK I - FULL INVERTER				020 HX J M	025 HX J M	040 HX J M	045 HX J M	070 HX J T	075 HX J T
SOREL XHCC CONTROLLER									
V/ph/Hz				230V~50Hz			400V/3/50HZ		
12°C/7°C	Cooling capacity	(1)	kW	6,00	7,49	9,59	12	14	16,7
	Total input power	(1)	kW	1,89	2,52	3,04	4,09	4,65	5,99
	EER	(1)		3,183	2,97	3,16	2,93	3,01	2,79
	ESEER	(1)		4,89	5,01	4,78	4,79	4,65	4,59
	Water flow rate	(1)	l/h	1026	1258	1622	2017	2375	2845
	High static pressure	(1)	kPa	74	68	76	61	81	61
40°C/45°C	Heating capacity	(2)	kW	6,08	7,61	9,16	12,11	15,1	17,5
	Heating surface for medium/high energy efficient buildings		m²/m²	70/140	90/180	110/220	150/300	180/360	210/420
	Total input power	(2)	kW	1,86	2,36	2,95	3,98	4,7	5,92
	COP	(2)		3,28	3,23	3,1	3,04	3,21	2,96
	Water flow rate	(2)	l/h	1062	1351	1646	2124	2633	3041
	High static pressure	(2)	kPa	76	69	77	60	70	50
Performance under average climatic conditions (Average) UE n°811/2013 Pdesignh ≤ 70kW									
	Pdesignh	(3)		6	7	9	12	14	16
	SCOP	(3)		3,83	3,83	3,6	3,35	3,6	3,43
	ηS	(3)		150	150	141	131	141	134
	Efficiency Energy Class			A+	A+	A+	A+	A+	A+
Cooling mode for low temperature									
	ηSC			161,7	167	172,3	171,9	148	149,4
	SEER			4,12	4,25	4,38	4,37	3,78	3,81
Heat Pump Unit									
Sorel XHCC controller with Ethernet									
UniQube SQ-BPSW EH 310 L with electric heater back up and integrated thermostat									
UniQube SQ-BPSW EH 440 L with electric heater back up and integrated thermostat									
UNIQUEBE HEAT PUMP PLUS 310 L									
UNIQUEBE HEAT PUMP PLUS 440 L									
Solarico Solar Sets for UNIQUEBE HEAT PUMP PLUS Packages									
Solar Set 310 L: 2 UniPlate collectors, Pump Set, Expansion Vessel									
Solar Set 440 L: 3 UniPlate collectors, Pump Set, Expansion Vessel									

*UniQube
Heart of your system*



UniQube

Composite

Solar Storage Tank

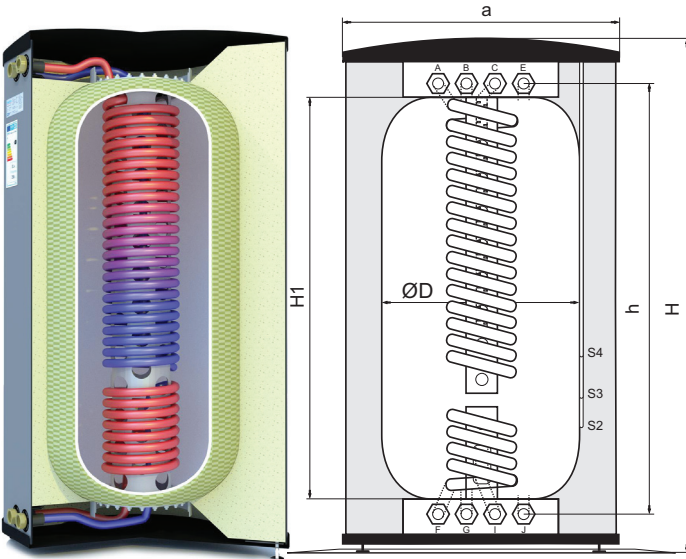
Domestic Water Heater

Stratified Separator Storage Tank

Solar Storage Tank
Domestic Water Heater
Stratified Separator Storage Tank

- constant flow domestic water heater, a hygienic storage tank
- corrugated stainless steel heat exchanger for heating drinking water
- corrugated stainless steel solar heat exchanger
- device for stratification of the heat
- hydraulic separator of the heat source circuit and the heating circuit
- equipped with two sleeves for sensors and maximum four sensors can be installed.
- polyurethane highest class of insulation
- all flanges are replaceable and it can be modified to any other type of storage tank if necessary.

UNIQUE MODEL - SOLAR STORAGE TANK, DOMESTIC WATER HEATER, STRATIFIED SEPARATOR STORAGE TANK			
TYPE SQ-BPSW		310	440
D (diameter)	(mm)	620	620
H1 (height)	(mm)	1300	1730
h (connectors)	(mm)	1470	1900
H (height)	(mm)	1570	2000
a (width)	(mm)	734	734
max. working temp.	(°C)	90	90
max. working pressure	(bar)	6	6
max. test pressure	(bar)	9	9
Net tank capacity	(liters)	290	413
Approx. weight	(kg)	104	130
S2 Solar sensor position	(mm)	1110	1550
S3 Heating sensor position	(mm)	910	1350
S4 DHW sensor position	(mm)	710	1150
Pivot measurement	(mm)	1730	2130
Solar heat exchanger			
dimension		5/4"	5/4"
max. working pressure	(bar)	10	10
max. test pressure	(bar)	15	15
capacity	(liters)	5	8
output area	(m²)	1,2	2
Water heat exchanger			
dimension		5/4"	5/4"
max. working pressure	(bar)	10	10
max. test pressure	(bar)	15	15
capacity	(liters)	15	19
output area	(m²)	3,8	5



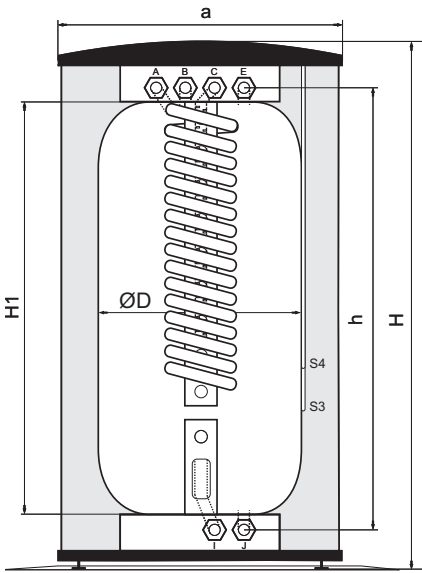
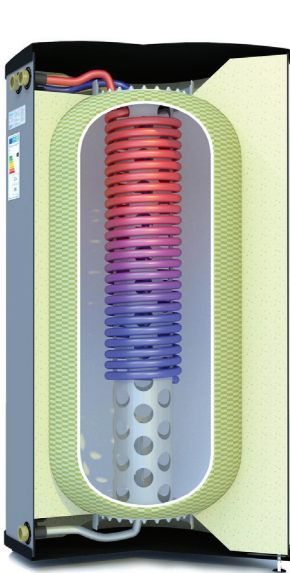
- A - Cold water in
- B - Hot water out
- C - Heating in
- E - Heating out
- F - Solar in
- G - Solar out
- I - Boiler in
- J - Boiler out
- S2 - Solar sensor
- S3 - Heating sensor
- S4 - DHW sensor

UniQube

Domestic Water Heater Stratified Separator Storage Tank

- constant flow domestic water heater, a hygienic storage tank
- corrugated stainless steel heat exchanger for heating drinking water
- device for stratification of the heat
- hydraulic separator of the heat source circuit and the heating circuit
- comes with two sleeves for sensors and maximum four sensors can be installed.
- polyurethane highest class of insulation
- all flanges are replaceable and it can be modified to any other type of storage tank if necessary.

UNIQUE MODEL - DOMESTIC WATER HEATER, STRATIFIED SEPARATOR STORAGE TANK			
TYPE SQ-BPW		310	440
D (diameter)	(mm)	620	620
H1 (height)	(mm)	1300	1730
h (connectors)	(mm)	1470	1900
H (height)	(mm)	1570	2000
a (width)	(mm)	734	734
max. working temp.	(°C)	90	90
max. working pressure	(bar)	6	6
max. test pressure	(bar)	9	9
Net tank capacity	(liters)	295	421
Approx. weight	(kg)	97	122
S3 Heating sensor position	(mm)	910	1350
S4 DHW sensor position	(mm)	710	1150
Pivot measurement	(mm)	1730	2130
Water heat exchanger			
dimension		5/4"	5/4"
max. working pressure	(bar)	10	10
max. test pressure	(bar)	15	15
capacity	(liters)	15	19
output area	(m²)	3,8	5



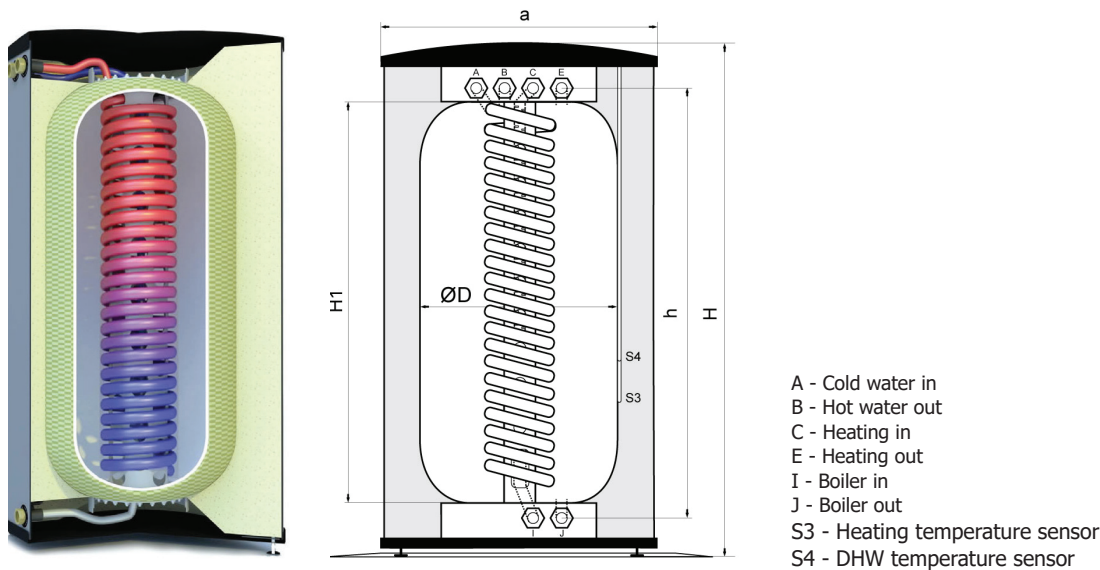
- A - Cold water in
- B - Hot water out
- C - Heating in
- E - Heating out
- I - Boiler in
- J - Boiler out
- S3 - Heating temperature sensor
- S4 - DHW temperature sensor



Ready for Heat Pumps
Domestic Water Heater
Stratified Separator Storage Tank

- constant flow domestic water heater, a hygienic storage tank
- corrugated stainless steel heat exchanger for heating drinking water
- device for stratification of the heat
- hydraulic separator of the heat source circuit and the heating circuit
- comes with two sleeves for sensors and maximum four sensors can be installed.
- polyurethane highest class of insulation
- all flanges are replaceable and it can be modified to any other type of storage tank if necessary.

UNIQUIBE MODEL - DOMESTIC WATER HEATER, STRATIFIED SEPARATOR STORAGE TANK			
TYPE SQ-BPW HP READY		310	440
D (diameter)	(mm)	620	620
H1 (height)	(mm)	1300	1730
h (connectors)	(mm)	1470	1900
H (height)	(mm)	1570	2000
a (width)	(mm)	734	734
max. working temp.	(°C)	90	90
max. working pressure	(bar)	6	6
max. test pressure	(bar)	9	9
Net tank capacity	(liters)	295	421
Approx. weight	(kg)	97	122
S3 Heating sensor position	(mm)	910	1350
S4 DHW sensor position	(mm)	710	1150
Pivot measurement	(mm)	1730	2130
Water heat exchanger			
dimension		5/4"	5/4"
max. working pressure	(bar)	10	10
max. test pressure	(bar)	15	15
capacity	(liters)	20	27
output area	(m²)	5	7

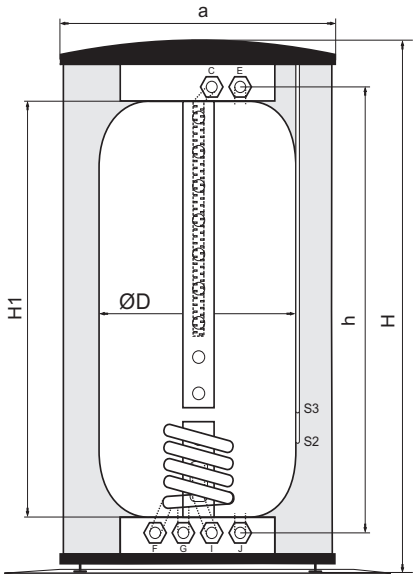
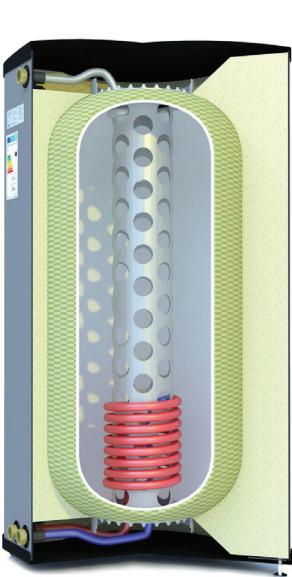


Solar Storage Tank

Stratified Separator Storage Tank

- corrugated stainless steel solar heat exchanger
- device for stratification of the heat
- hydraulic separator of the heat source circuit and the heating circuit
- comes with two sleeves for sensors and maximum four sensors can be installed.
- polyurethane highest class of insulation
- all flanges are replaceable and it can be modified to any other type of storage tank if necessary.

UNIQUE MODEL - SOLAR STORAGE TANK, STRATIFIED SEPARATOR STORAGE TANK			
TYPE SQ-BPS		310	440
D (diameter)	(mm)	620	620
H1 (height)	(mm)	1300	1730
h (connectors)	(mm)	1470	1900
H (height)	(mm)	1570	2000
a (width)	(mm)	734	734
max. working temp.	(°C)	90	90
max. working pressure	(bar)	6	6
max. test pressure	(bar)	9	9
Net tank capacity	(liters)	305	432
Approx. weight	(kg)	91	114
S2 Solar sensor position	(mm)	1110	1550
S3 Heating sensor position	(mm)	910	1350
Pivot measurement	(mm)	1730	2130
Solar heat exchanger			
dimension		5/4"	5/4"
max. working pressure	(bar)	10	10
max. test pressure	(bar)	15	15
capacity	(liters)	5	8
output area	(m²)	1,2	2

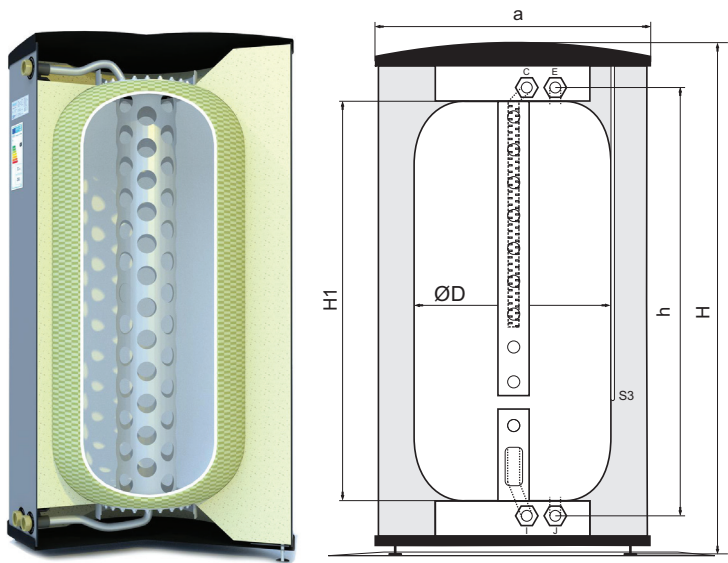


- C - Heating in
- E - Heating out
- F - Solar in
- G - Solar out
- I - Boiler in
- J - Boiler out
- S2 - Solar sensor
- S3 - Heating sensor

Stratified Separator Storage Tank

- device for stratification of the heat
- hydraulic separator of the heat source circuit and the heating circuit
- comes with two sleeves for sensors and maximum four sensors can be installed.
- polyurethane highest class of insulation
- all flanges are replaceable and it can be modified to any other type of storage tank if necessary.

UNIQUUBE MODEL - STRATIFIED SEPARATOR STORAGE TANK			
TYPE SQ-BP		310	440
D (diameter)	(mm)	620	620
H1 (height)	(mm)	1300	1730
h (connectors)	(mm)	1470	1900
H (height)	(mm)	1670	2100
a (width)	(mm)	734	734
max. working temp.	(°C)	90	90
max. working pressure	(bar)	6	6
max. test pressure	(bar)	9	9
Net tank capacity	(liters)	310	440
Approx. weight	(kg)	85	106
S3 Heating sensor position	(mm)	910	1350
Pivot measurement	(mm)	1730	2130

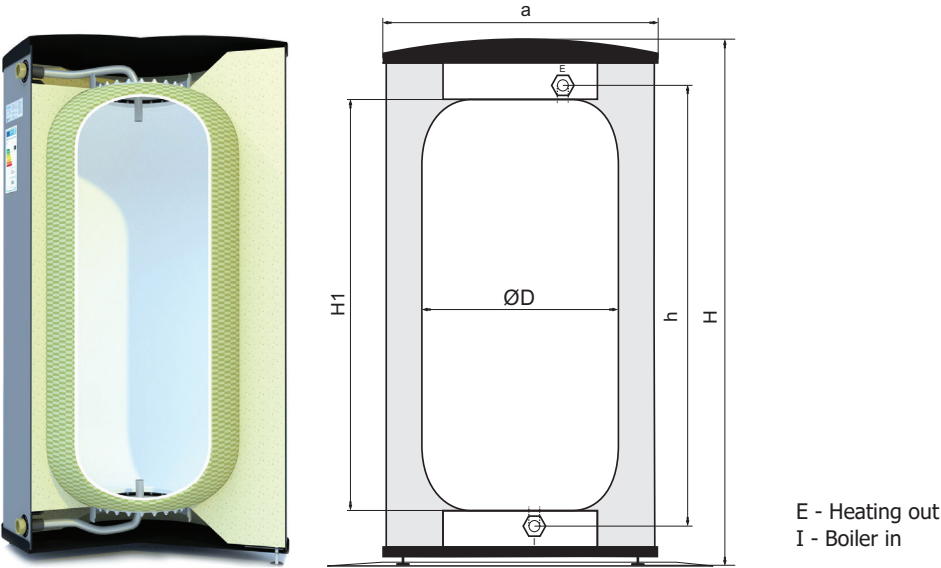


C - Heating in
E- Heating out
I - Boiler in
J - Boiler out
S3 - Heating temperature sensor

Buffer Storage Tank

- all flanges are replaceable and it can be modified to any other type of storage tank if necessary.
- comes with two sleeves for sensors and maximum four sensors can be installed
- polyurethane highest class of insulation

UNIQUEBE MODEL - BUFFER STORAGE TANK			
TYPE SQ-B		310	440
D (diameter)	(mm)	620	620
H1 (height)	(mm)	1300	1730
h (connectors)	(mm)	1470	1900
H (height)	(mm)	1570	2000
a (width)	(mm)	734	734
max. working temp.	(°C)	90	90
max. working pressure	(bar)	6	6
max. test pressure	(bar)	9	9
Net tank capacity	(liters)	310	440
Approx. weight	(kg)	82	103
Pivot measurement	(mm)	1730	2130



UNIQUE - ACCESORIES
Stainless steel electric heater back up with integrated thermostats, 1 phase, 2 kW
Stainless steel electric heater back up with integrated thermostats, 1 phase, 3 kW
Digital Controller Sorel, STDC
Digital Controller Sorel, MTDC
Digital Controller Sorel, LTDC
Heating Controller Sorel, XHCC with ethernet
Digital room thermostat for heating and cooling, Sorel Caleon Clima
2-Way Zone Valve, 1", with 2-point signal acutator 230V, 50 Hz
3-Way Zone Valve, 1", with 2-point signal acutator 230V, 50 Hz
PWM Acuator, 0 -10 V
Pump Set
Expansion Vessel for solar system 24l
Circulating pump DAB VA 25/180/1"
Circulating pump DAB VA 35/180/1"
Circulating pump DAB VA 55/180/1"
Circulating pump with electronic regulation DAB EVOTRON 40/180
Circulating pump with electronic regulation DAB EVOTRON 60/180



*UniQube
Heart of your system*



UniPlate

Solar Collectors

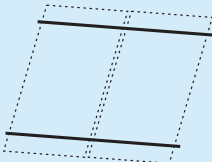
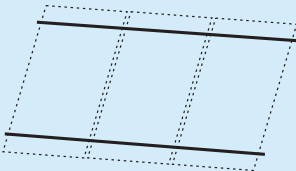
UniPlate

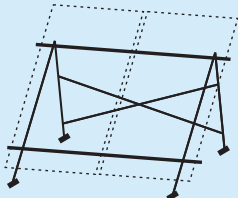
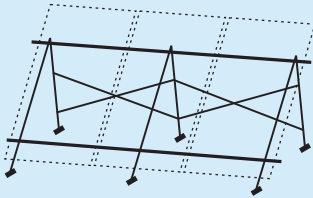
Solar Collector

- Full plate high performance absorber
- High transmission tempered safety glass
- Optimal insulation
- Aluminium casing
- Easy to install
- 10 years guarantee
- Stability and reliability

UNIPLATE MODEL - SOLAR COLLECTOR		
TYPE		ESK 2.5 SB
Gross area / Light entering area	(m²)	2,49 / 2,35
Absorber surface (corrugate)	(m²)	2,32
Absorber material		copper sheet with "Eta plus" selective surface coating
Absorption coefficient (Eta plus)	(%)	95 ± 2
Emission coefficient (Eta plus)	(%)	5 ± 2
Cu Pipe register frame	(mm)	Φ 8 x 0,5
Collective Cu pipe frame	(mm)	Φ 22 x 0,8
Absorber volume	(l)	1,7
Transparent front cover		4mm tempered solar glass
Solar light transmission through glass	(%)	92 ± 2
Solar energy transmission through glass	(%)	91 ± 2
Number of connections		4
Connection diameter	(mm)	Φ 22
Max. working / test pressure	(bar)	10 / 14
Stagnation temperature	(°C)	199
Insulation - back side		40 mm glass wool (50kg/m³)
Insulation - on the sides		-
Back area		0.5 mm embossed alu sheet
Collector construction		alu profile AlMgSi 0,5 F22
Welding method		ultrasonic
Height/ Width/Depth	(mm)	2150 / 1160 / 90
Weight	(kg)	45

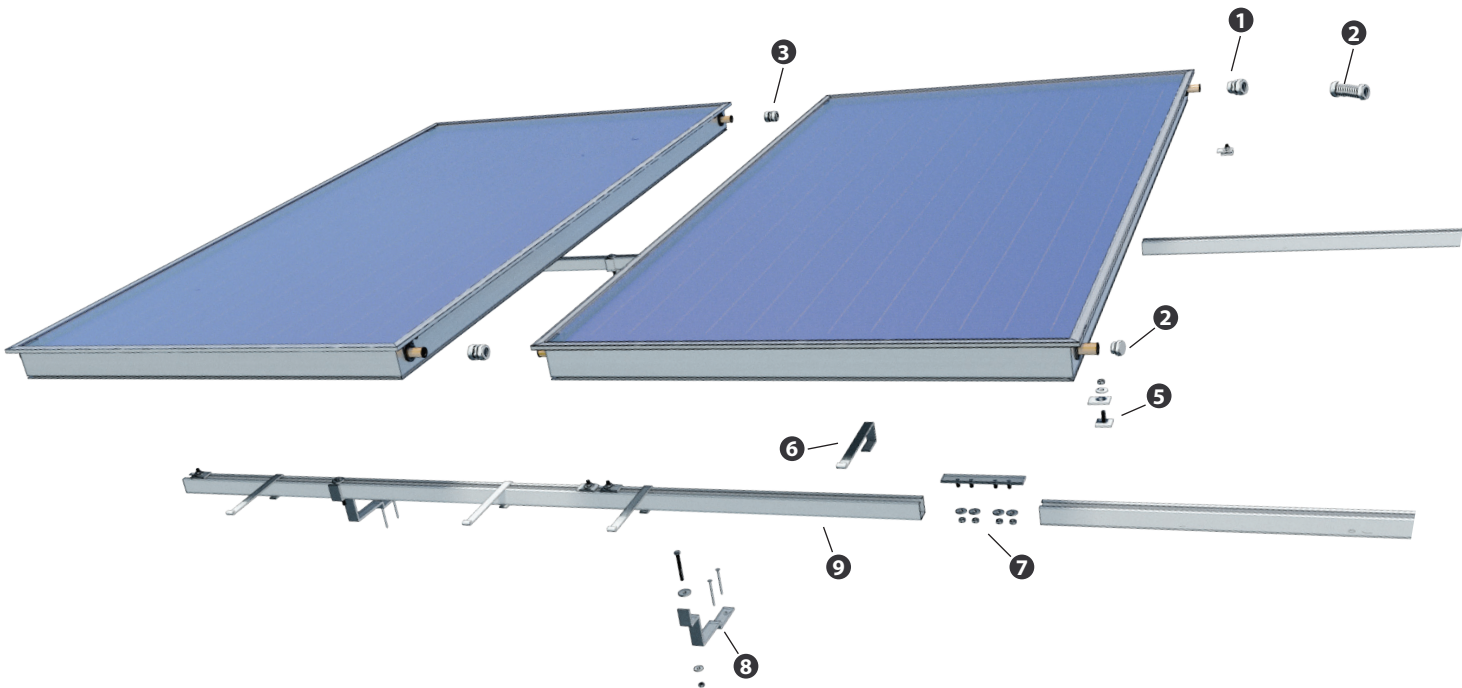


UNIPLATE - MOUNTING SETS	
	Solarico parallel to roof mounting set for 2 UniPlate 2.5 SB vertical collectors Consisting of: 6 on-roof attachments for parallel mounting, C-profiles with fixing steel screws, nuts and flat washers; 4 pieces of anti-slip protection brackets, 2 collector attachment sets including its fixing steel screws, nuts and flat washers.
	Solarico connecting fitting set for 2 UniPlate 2.5 SB collectors Consisting of: 2 pieces of straight fitting $\Phi 22$, 4 pieces of straight male or female threads $\Phi 22\text{mm}/3/4''$ and 2 pieces of female or male ending cap.
	Solarico parallel to roof mounting set for 3 UniPlate 2.5 SB vertical collectors Consisting of: 8 on-roof attachments for parallel mounting, C-profiles with fixing steel screws, nuts and flat washers; 6 pieces of anti-slip protection brackets, 3 collector attachment sets including its fixing steel screws, nuts and flat washers.
	Solarico connecting fitting set for 3 UniPlate 2.5 SB collectors Consisting of: 4 pieces of straight fitting $\Phi 22$, 4 pieces of straight male or female threads $\Phi 22\text{mm}/3/4''$ and 2 pieces of female or male ending cap.

UNIPLATE - MOUNTING SETS	
	Solarico flat roof mounting set for 2 UniPlate 2.5 SB vertical collectors Consisting of: Painted steel L-profiles, painted steel flat bars and galvanized steel C-profiles with fixing steel screws, nuts and flat washers; 4 pieces of anti-slip protection brackets, 2 collector attachment sets including its fixing steel screws, nuts and flat washers.
	Solarico connecting fitting set for 2 UniPlate 2.5 SB collectors Consisting of: 2 pieces of straight fitting $\Phi 22$, 4 pieces of straight male or female threads $\Phi 22\text{mm}/3/4''$ and 2 pieces of female or male ending cap.
	Solarico flat roof mounting set for 3 UniPlate 2.5 SB vertical collectors Consisting of: Painted steel L-profiles, painted steel flat bars and galvanized steel C-profiles with fixing steel screws, nuts and flat washers; 6 pieces of anti-slip protection brackets, 3 collector attachment sets including its fixing steel screws, nuts and flat washers.
	Solarico connecting fitting set for 3 UniPlate collectors Consisting of: 4 pieces of straight fitting $\Phi 22$, 4 pieces of straight male or female threads $\Phi 22\text{mm}/3/4''$ and 2 pieces of female or male ending cap.

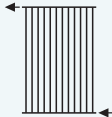
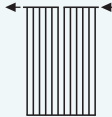
	UNIPLATE - CONNECTORS
1	Straight fitting-male thread $\Phi 22$ mm - 3/4"
2	Female cap - 3/4"
3	Straight fitting $\Phi 22$ mm
4	Compensation joint $\Phi 22$ mm

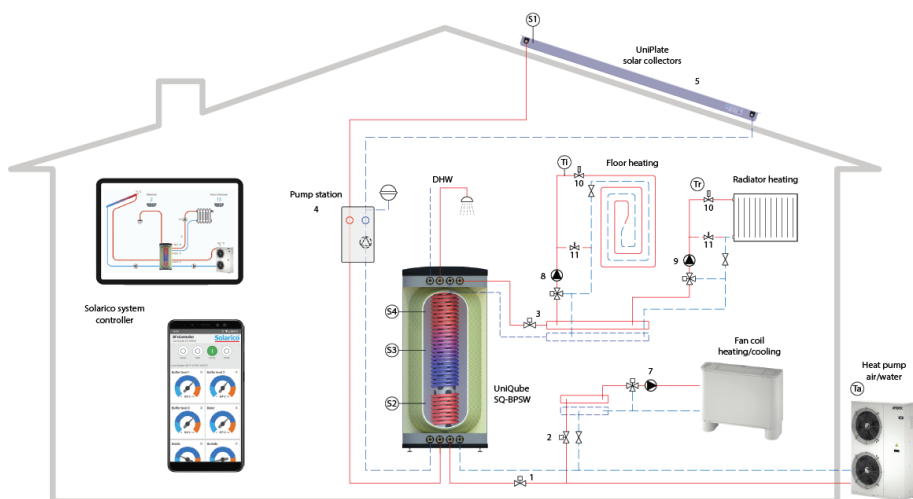
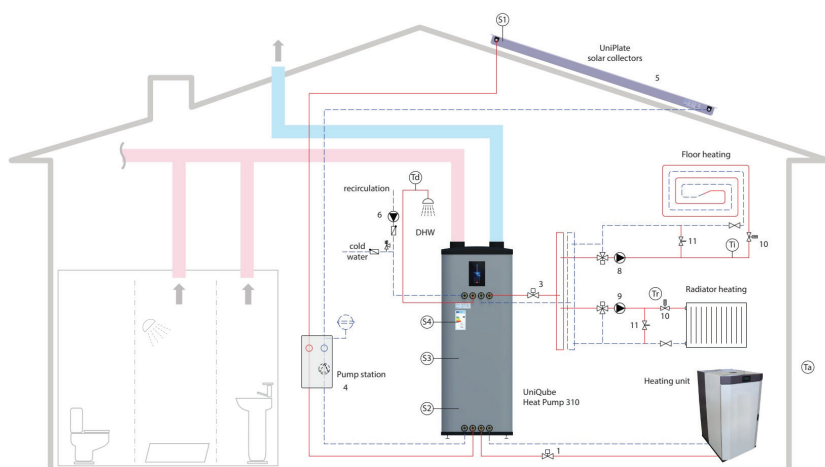
	UNIPLATE - SPARE PARTS
5	Side bracket set for 1 collector (4 brackets, 4 bolts with nuts)
6	Anti slip protection
7	Coupling for the profile (bracket, 4 bolts with nuts)
8	On-roof attachment for parallel mounting
9	C-profile



UniPlate

Solar Collector

Model		ESK 2.5 SB	ESK 2.3 SB	ESK 2.1 SB	ESK 2.5 SB - U	ESK 2.3 SB - U	ESK 2.1 SB - U
Gross area / Light entering area	(m²)	2,49 / 2,35	2,3 / 2,15	2,1 / 1,95	2,49 / 2,35	2,3 / 2,15	2,1 / 1,95
Absorber surface (corrugate)	(m²)	2,32	2,12	1,92	2,32	2,12	1,92
Absorber material		copper sheet with "Eta plus" selective surface coating			copper sheet with "Eta plus" selective surface coating		
Absorption coefficient (Eta plus)	(%)	95 ± 2	95 ± 2	95 ± 2	95 ± 2	95 ± 2	95 ± 2
Emission coefficient (Eta plus)	(%)	5 ± 2	5 ± 2	5 ± 2	5 ± 2	5 ± 2	5 ± 2
Cu Pipe register frame	(mm)	Φ 8 x 0,5	Φ 8 x 0,5	Φ 8 x 0,5	Φ 8 x 0,5	Φ 8 x 0,5	Φ 8 x 0,5
Collective Cu pipe frame	(mm)	Φ 22 x 0,8	Φ 22 x 0,8	Φ 22 x 0,8	Φ 22 x 0,8	Φ 22 x 0,8	Φ 22 x 0,8
Absorber volume	(l)	1,7	1,5	1,3	1,7	1,5	1,3
Transparent front cover		4mm tempered solar glass			4mm tempered solar glass		
Solar light transmission through glass	(%)	92 ± 2	92 ± 2	92 ± 2	92 ± 2	92 ± 2	92 ± 2
Solar energy transmission through glass	(%)	91 ± 2	91 ± 2	91 ± 2	91 ± 2	91 ± 2	91 ± 2
Number of connections		4	4	4	2	2	2
Connection diameter	(mm)	Φ 22	Φ 22	Φ 22	Φ 22	Φ 22	Φ 22
Max. working / test pressure	(bar)	10 / 14			10 / 14		
Stagnation temperature	(°C)	199			199		
Insulation - back side		40 mm glass wool (50kg/m³)			40 mm glass wool (50kg/m³)		
Insulation - on the sides		-			-		
Back area		0.5 mm embossed aluminium sheet			0.5 mm embossed aluminium sheet		
Collector construction		aluminium profile AlMgSi 0,5 F22			aluminium profile AlMgSi 0,5 F22		
Welding method		ultrasonic			ultrasonic		
Height/ Width/Depth	(mm)	2150 / 1160 / 90	2150 / 1068 / 90	2150 / 976 / 90	2150 / 1160 / 90	2150 / 1068 / 90	2150 / 976 / 90
Weight	(kg)	45	41	37	45	41	37
Absorber type							



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