

GENERAL BENEFITS

- HEAT PUMP READY
- SUPPORT HEATING WITH SOLAR
- HEART OF THE SYSTEM

ALL IN ONE











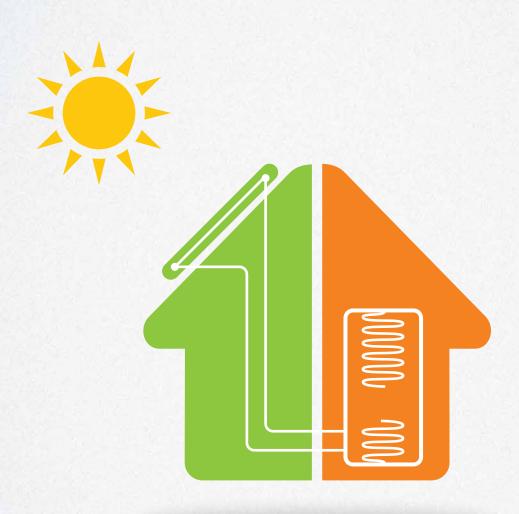








Solutions Beyond the Sun ...by Solarico



It's amazing, just 1 second of the Sun's energy output would power the world for 500,000 years!

We store it, you use it!



Solarico Production

Leading The Modern Era



A-class energy efficiency





Decades of warranty and reliability

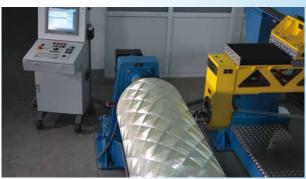
Capturing the sun

Solarico Production started with the UniPlate solar collectors. We developed custom designed robot for welding the UniPlate's full-plate absorber. These absorbers are resistant to mechanical distortions and are most effective in the class of flat panels.

Copper to copper ultrasonic welding results in high thermal transmission joints that are chemically and physically stable for decades.

4 mm thickness tempered safety solar glass makes UniPlate resistant to tough outer impacts and its low iron structure provides close to 100% solar heat capturing.





Ongoing improvement

Overcoming conventional energy storage

Looking to the future, combining knowledge and experience, we got inspired to start our own production line of the advanced heat storage tank - the UniQube.

Lifting to the highest level of energy efficiency, and seting a new standards for heat storage tanks.

Shaking the stagnant tech - composites instead of steel

Lightweight, safe, durable

It starts with computer controlled automated process of rotational molding the cylindric inner tank, using the cross-linkable PEX plastic

- · It's impermeable and thermally inert material
- · Temperature resistant, with outstanding compressive and tensile properties

Then we wind it with glass-fiber composite in order to achieve a top strength, so it becomes a tank - stable to higher working pressures.

The combination of these materials is resistant to harshest environment and corrosion on both sides of the tank.

Easy way to use the power of the sun

The essentials of solar thermal systems

Looking to the future, we found that such skills and experience could be put to the efficient manufacture of new products in the renewable energy market. We use our long time experience for developing our own products that best meet the needs of our customers. With the most up to date technology, and with our power of innovation and solar expertise, we produce and sell products which are following the highest standards in industrial production of thermal solar collectors.

Solarico's systems are developed on the years of experience and practical skills, produced with the newest production technologies that guaranties the best efficiency and quality and fast return of overall investment.





Visible and short wavelenght rays Protector seranic cover layer against to corrosion Absorber layer Corrosion protection and cling surface Metal plate Transmitted heat to the plate

The latest technology of selective coated absorbers that have been used for the UniPlate 2.5 SB series solar collectors transfer the sun radiation heat in maximum level and minimize the reflection loss which decrease the efficiency.

Advanced automation technology

Solarico developed specially designed robot for welding the UniPlate's full plate absorber.

Process of welding absorber in one piece and its automation guarantees optimal productivity.

Impressive energy apsorbtion, stability and reliability

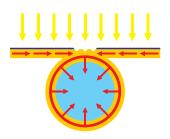
UniPlate's absorber is made of corrugated full plate copper foil, with selective surface coating and ultrasonically welded on 12 copper tubes. Full plate absorbers are resistant to mechanical distortions and are most effective in the class of flat panels.

Copper to copper ultrasonic welding produce high thermal transmission joints that are chemically and physically stable for decades.

 $4~\rm mm$ thickness tempered safety solar glass makes UniPlate resistant to tough outer impacts and its low iron structure provides minimum reflection of the sun rays.

Full plate selective coated high tech collectors

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



Ultrasonic welding method which is the one of the most modern and latest technologies has been used to connect the selective coated absorber surface to the riser pipes.

Performance as our voice

Up to 50% energy savings

When using solar thermal panels, storage tank is the central part of any heating system, guaranteeing its efficiency. UniQube has improved energy efficiency class "A", usable hot and clean water, light-weight, corrosion resistant, space saving design. The plastic tank is reinforced by filament winding of fiber glass. Using this technology for our storage tank, we lift it a level above the conventional storage tanks.

UniQube provides hygienically safe water heated by any kind of heat source, or combination of more heat sources, depending on customer needs. The inside heat diffusion is limited by stainless steel tube difusion protection. Using the same technology, Solarico is also producing a new generation of composite expansion vessels, pressure and water treatment tanks, and heat exchangers for pool heating.

Hygienic hot water

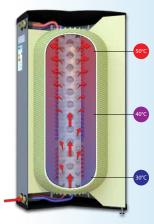
The Solarico UniQubes consumes energy for hot water only at the moment when the user request it. It saves 10% \div 30% compared to conventional water heaters. Cold drinking water is connected to the inlet of stainless steel heat exchanger, and its outlet is connected to the tap. Water flows thru when the tap is open and gets instantly the heat from the water of the heating system that is stored in the tank.

This ondemand heating is also limiting proliferation of Legionella.



Thermal Stratification

Thermally layered hot water tanks are saving up to 25% of energy, compared to diffused heated tanks. The hottest water takes the top layer and is first used. Therefore the time between heat input and heat output is low, minimizing the standing heat losses. It also improves the time of heat delivery from the heat source to the heat consumers, providing best compofrt for the final users.



Buffer - Heat accumulator

It stores the surplus of heat coming out of sun, absorbs all the peaks of heat sources. It is also storing the heat produced during the cheap electricity rate and use it during the expencive rate. It scores $10\% \div 30\%$ energy savings.

"Drain Back" Solar Heating

We input a free solar energy into the heating system. The more sun heat we store, the bigger energy savings, and the lower payback time of the investment.

Combining UniPlate collectors and UniQube hot water storage tanks it is possible to input from $7kW_{th} \div 20kW_{th}$ sun heat into the heating system, using only one UniQube.







Qube X

Hygienic water heater

APPLICATION

- Renovations of hot water systems
- Large hot water outputs
- Clean hot water in clean spaces
- Where the budget is limited
- Energy efficient installations
- Harshest environment

BENEFITS

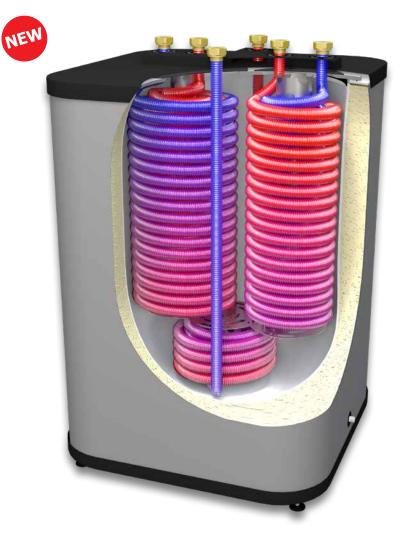
- Lightweight
- Easy to manipulate
- Installer friendly
- Lower transport costs
- Optional electric heater backup (1 or 2)











HOW IT WORKS

There is polyethylene tank inside filled with energy transfer medium and up to 3 heat exchangers:

- one heat exchanger is used for providing hygienic hot water
- other 2 heat exchangers may be used for connecting:
 - 2 heat sources, or
 - 1 heat source + 1 heat consumer
- the tank is not pressurized
- the tank may be used as solar drain back tank
- the inside medium may be used as a solar drain back medium
- the inside medium transfers the energy among the heat exchangers and solar collectors

HYGIENIC ON-DEMAND DOMESTIC HOT WATER

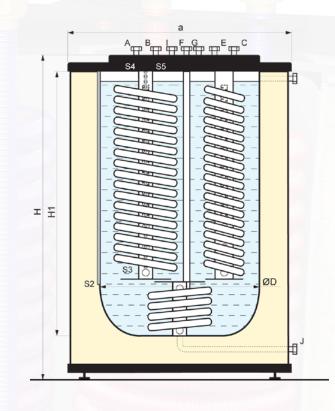
- 10÷30% energy savings due to on-demand principle of heating of water for domestic use. It uses energy to heat up the water only when the user opens the tap
- Improved Legionella prevention through the use of continuous flow principle
- Application in the HORECA industry, kindergartens, schools, hospitals, and residential areas

WATER MEDIUM FOR HEAT TRANSFER INSTEAD OF GLYCOL

- Water has superior heat transfer properties compared to propylene or ethylene glycol because of a high thermal capacity and low viscosity.
- Unlimited Application anywhere, including installations where contamination potential is not allowed
- Highest Solar Thermal Efficiency Water has higher thermal conductivity compared to glycol
- Minimum Maintenance No need for concentration check up and potential glycol based corrosion
- Low Cost Glycol solutions are more expensive than water, plus necessary equipment for its handling and maintenance



Qube X Water Heater		220	400
D (diameter)	(mm)	620	890
H1 (height)	(mm)	845	845
H (height)	(mm)	1030	1030
a (width)	(mm)	725	960
Pivot measurment	(mm)	1260	1408
Gross tank capacity	(I)	220	400
Connections I,J		5/4	4"
Max. working temp.	(°C)	90	90
S2 Solar sensor position	(mm)	780	780
S3 Heating sensor position	(mm)	140	140
S4 DHW sensor position	(mm)	600	600
Solar heat exchanger			
Connections F, G		5/4	4"
Capacity	(l)	5	8
Output area	(m²)	1,2	2
DHW exchanger			
Connections A, B		5/4	4"
Capacity	(1)	23	31
Output area	(m²)	4	5
Heating exchanger			
Connections C, E	ESSEM!	5/4	4"
Capacity	(l)	18	24
Output area	(m²)	3	4



A - Cold water in

F - Solar in

B - Hot water out

G - Solar out

C - Heating in

I - Solar Drain Back in J - Solar Drain Back out

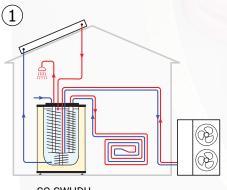
E - Heating out

S2 - Solar sensor

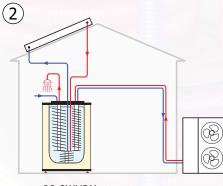
S3 - DHW / Heating, middle sensor

S4 - DHW / Heating, top sensor

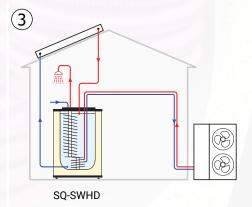
S5 - Overheating protection sensor

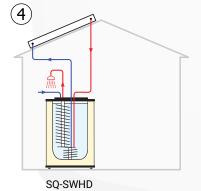


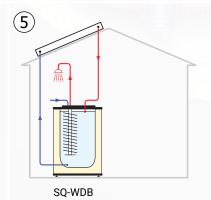
SQ-SWHDU



SQ-SWHDU







- Hygienic Hot Water + Solar Drain Back
 Heat Pump + Solar support for space
 heating
- 2. Hygienic Hot Water + Solar Pressurized + Heat Pump
- 3. Hygienic Hot Water + Solar Drain Back + Heat Pump
- 4. Hygienic Hot Water + Solar Pressurized
- 5. Hygienic Hot Water + Solar Drain Back
- * Hydraulic variants 1 and 2 apply to 400 liter tanks Hydraulic variants 3, 4 and 5 apply to 220 and 400 liter tanks



UniQube

from buffer storage tank to combined storage tank

- Continuous flow domestic water heater, a hygienic storage tank
- Domestic hot water heat exchanger made of stainless steel inox 316 I corrugated pipe
- Solar heat exchanger made of stainless steel inox 316 I corrugated pipe
- Device for stratification of the heat
- Hydraulic separator between the heat source circuit and the heating circuit
- Equipped with four sleeves for sensors
- Polyurethane high quality insulation, specific in very limited fire contribution, class b2 according to din 4102
- All flanges are replaceable and it can be modified to any other type of storage tank if necessary
- Electric heater backup (optional)















SQ-BPSW Combined storage tank



SQ-BPW Domestic water heater



SQ-BPS Solar storage tank

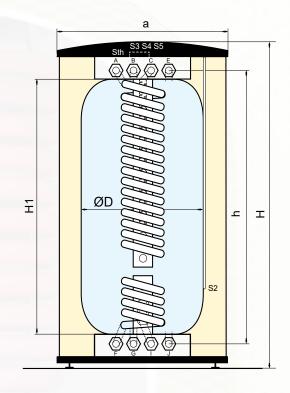


SQ-BP Stratification storage tank



SQ-B Buffer storage tank

UniQube Solar Storage Tank, Domestic	Water	310	440	800
Heater, Stratified Separator St		0.0		000
D (diameter)	(mm)	620	620	890
H1 (height)	(mm)	1300	1730	1730
h (connectors)	(mm)	1320	1750	1750
H (height)	(mm)	1570	2000	2000
a (width)	(mm)	725	725	960
Pivot measurment	(mm)	1730	2130	2219
Net tank capacity	(I)	290	413	773
Approx. weight	(kg)	104	130	160
Connections C,E,I,J			5/4"	
Max. working temp.	(°C)	90	90	90
Max. working pressure	(bar)	6	6	6
Max. test pressure	(bar)	9	9	9
S2 Solar sensor position	(mm)	1110	1550	1550
S3 DHW sensor position	(mm)	600	900	900
S4 Heating sensor position	(mm)	140	140	140
S5 Overheating protection	(mm)	140	140	140
Solar heat exchanger				
Connections F, G			5/4"	
Max. working pressure	(bar)	10	10	10
Max. test pressure	(bar)	15	15	15
Capacity	(I)	5	8	8
Output area	(m²)	1,2	2	2
DHW exchanger				
Connections A, B			5/4"	
Max. working pressure	(bar)	10	10	10
Max. test pressure	(bar)	15	15	15
Capacity	(I)	15	19	19
Output area	(m²)	3,8	5	5



A - Cold water in

F - Solar in

B - Hot water out C - Heating in

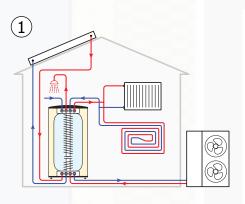
E - Heating out

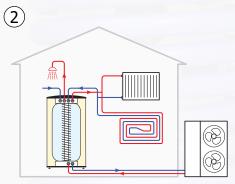
G - Solar out I - Boiler in J - Boiler out

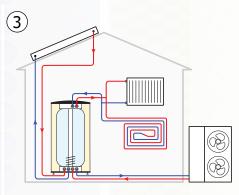
S2 - Solar sensor

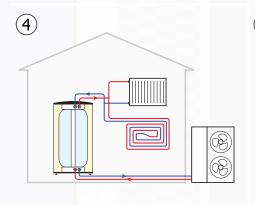
S3 - DHW sensor S4 - Heating sensor

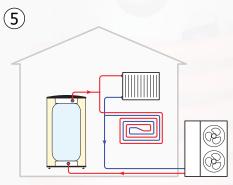
S5 - Overheating protection











- 1. SQ-BPSW Combined storage tank
- 2. SQ-BPW Domestic water heater
- 3. SQ-BPS Solar storage tank
- 4. SQ-BP Stratified separator storage tank
- 5. SQ-B Buffer storage tank



UniQube 6C

Energy Savings All-in

ADVANTAGES

- Easy integration of any type of heat source
- Easy integration of any type of heat consumers
- Total hydraulic separation of 6 circuits
- Available for 310, 440 and 800 liter accumulation tanks
- Simplified pipeworks
- Minimized heat losses

BENEFITS

- Smooth thermostat control over all heat consumers
- Solution for systems with multiple heat sources
- Extended lifetime of the system components
- Cheaper installation
- Lower energy bill
- Space saving installation
- Electric heater backup (optional)















WHAT IS THE 6C VERSION OF UNIQUBE?

It is any UniQube model produced with the possibility to connect 6 heating circuits. Now it is possible to integrate 3 heat sources + 3 heat consuming circuits in direct connection with the heat accumulator.

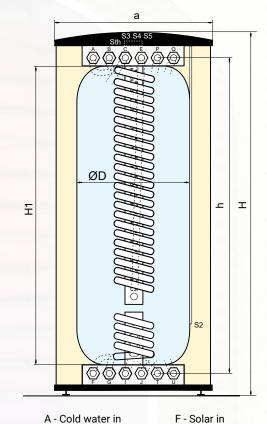
MORE THAN CONVENTIONAL HEAT PUMP SYSTEMS

UniQube 6C integration improves system performance by at least 25%. It may integrate and buffer high-temperature heat sources added to the heat pump systems. Solar thermal supports the heat pump work. It supplies multiple heat consumers like domestic hot water, swimming pools, radiator, or underfloor heating.

NOW IT IS EASY TO DESIGN AN ENERGY-SAVING SYSTEM

The system designers that will include UniQube 6C models in their projects, will offer a high-efficiency heating system for the end user.

UniQube 6C SQ-BPSW Solar Storage Tank, Domestic \ Heater, Stratified Separator Sto		310	440	800
D (diameter)	(mm)	620	620	890
H1 (height)	(mm)	1300	1730	1730
h (connectors)	(mm)	1320	1750	1750
H (height)	(mm)	1570	2000	2000
a (width)	(mm)	725	725	960
Pivot measurment	(mm)	1730	2130	2219
Net tank capacity	(l)	290	413	773
Approx. weight	(kg)	104	130	160
Connections C,E,P,Q,I,J,T,U			5/4"	
Max. working temp.	(°C)	90	90	90
Max. working pressure	(bar)	6	6	6
Max. test pressure	(bar)	9	9	9
S2 Solar sensor position	(mm)	1110	1550	1550
S3 DHW sensor position	(mm)	600	900	900
S4 Heating sensor position	(mm)	140	140	140
S5 Overheating protection	(mm)	140	140	140
Solar heat exchanger				
Connections F, G			5/4"	
Max. working pressure	(bar)	10	10	10
Max. test pressure	(bar)	15	15	15
Capacity	(1)	5	8	8
Output area	(m²)	1,2	2	2
DHW exchanger				
Connections A, B			5/4"	
Max. working pressure	(bar)	10	10	10
Max. test pressure	(bar)	15	15	15
Capacity	(l)	15	19	19
Output area	(m²)	3,8	5	5



A - Cold water in

B - Hot water out

C - Heating in

E - Heating out

P - Heating in

Q - Heating out

S2 - Solar sensor

S3 - DHW sensor

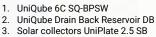
S5 - Overheating protection

S4 - Heating sensor

FOLLOWING THE KNOWLEDGE

The UniQube 6C models are Solarico's latest project, utilizing the potential of direct connection of multiple heat circuits to the tank.

- 3 heat sources + 3 heat consumers in direct connection to the A-class energy efficient heat storage
- Heating System designs, where UniPlate solar collectors are added, result in notable energy savings because of 100% free solar thermal energy
- 4 times more efficient collectors per m2, compared to photovoltaic panels, in a sense of sun energy utilization
- Usage of thermal collectors as a real support for the heating system by up to a fantastic 50%, and even more
- "Drain Back Solar" option, solar system is 100% stable



G - Solar out T - Heat Pump In

I - Boiler in

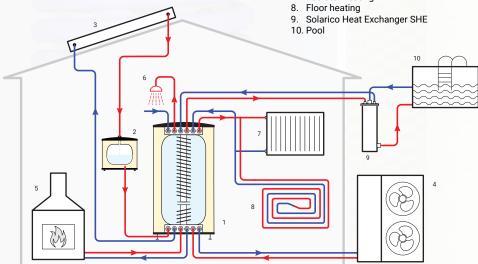
J - Boiler out

U - Heat Pump out

Heat pump Boiler fireplace

6. DHW

Radiator heating





UniQube Heat Pump

UniQube with integrated heat pump

■ 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 ACCORDING TO HIGHEST EU STANDARDS 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

WARRANTY TERMS

30 years on storage tank 10 years on heat exchangers 1 year on heat pump unit













6 FUNCTIONS HEAT PUMP INTEGRATED TANK

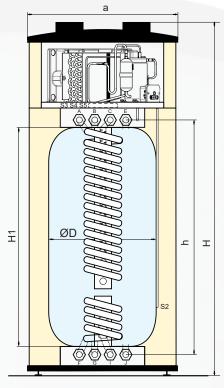
Heat pump integrated with UniQube enables savings of up to 70% per year and can operate at external air temperatures of -10 °C. An additional space can be cooled or ventilated with this model.

Tank inside is fully equipped model, combining functions of stratification, hygienic water heater, buffer, hydraulic separator, solar storage tank and solar support for the heating system. It is 1 piece solution for high efficiency central heating systems

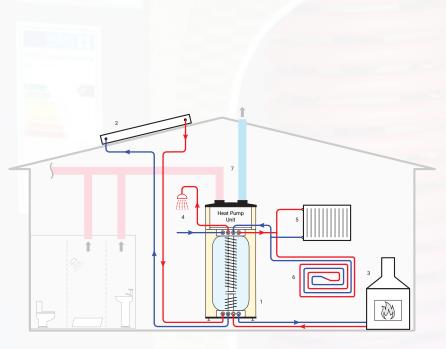


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UniQube SQ-BPSW HP		
Solar Storage Tank, Domestic W Heater, Stratified Separator Stor		310
D (diameter)	(mm)	620
H1 (height)	(mm)	1300
h (connectors)	(mm)	1320
H (height)	(mm)	2000
a (width)	(mm)	725
Pivot measurment	(mm)	2130
Net tank capacity	(I)	290
Approx. weight	(kg)	119
Connections C,E,I,J		5/4"
Max. working temp.	(°C)	90
Max. working pressure	(bar)	6
Max. test pressure	(bar)	9
S2 Solar sensor position	(mm)	1110
S3 DHW sensor position	(mm)	600
S4 Heating sensor position	(mm)	140
S5 Overheating protection	(mm)	140
Solar heat exchanger		
Connections F, G		5/4"
Max. working pressure	(bar)	10
Max. test pressure	(bar)	15
Capacity	(l)	5
Output area	(m²)	1,2
DHW exchanger		
O A.D	77.42	5/4"
Connections A, B		
Max. working pressure	(bar)	10
	(bar)	10 15
Max. working pressure	. ,	

Heat Pump Unit DHWHP-O		3000
Operational area of the compressor	°C	-3 ÷ 35
Max. temperature of output water	°C	55
Heat output	W	2800
C.O.P. A20/W15-W45		4.1
Type of compressor		Hitachi - rotary
Compressor consumption	W	695
Rated current of the compressor	Α	3.2
Refrigerant		R134a
Electricity supply		230V / 1Ph / 50Hz
Required fuse	Α	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		А



- 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
- K Condensate drainage
- S2 Solar sensor
- S3 DHW sensor
- S4 Heating sensor
- S5 Overheating protection



UTILISING INLET/OUTLET AIR

Heating the sanitary water, ventilation of another room with its inlet air, and cooling another room with its outlet air - like the cellar with storage for winter, for example.

- 1. UniQube SQ-BPSW HP 310
- Solar collectors UniPlate 2.5 SB
- 3. Heating unit (fireplace boiler)
- 4. DHW
- Radiator heating 5.
- Floor heating
- 7. Air ducts



UniQube Drain Back Reservoir

Solar Draining Tank

- UTILIZES MUCH MORE SOLAR ENERGY because drain back solar systems can be sized with much more collectors - they absorb more solar enegy 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
- OVERHEATING 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
- EASY TO INSTALL & 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
- SYSTEM STABILITY, LOW-MAINTENANCE
 Since the fluid is drained back into the storage tank
 when not in use, there is no risk of stagnation or
 corrosion in the pipes. This significantly reduces the
 need for maintenance and ensures a longer lifespan
 for the system



1. UniQube SQ-BPSW



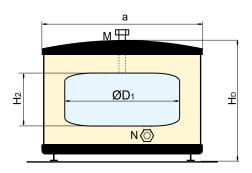




2. UniQube Drain Back Reservoir DB
3. Solar collectors UniPlate 2.5 SB
4. Heat pump
5. DHW
6. Radiator heating
7. Floor heating

Integration with UniQube in home energy system

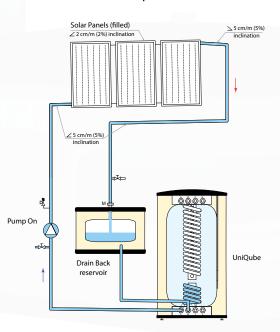
UniQube DB Reservoir Solar Draining Tank		50	100	
D ₁ (diameter)	(mm)	600	600	
H _D (height)	(mm)	450	780	
H₂ (height)	(mm)	140	350	
a (width)	(mm)	725	725	
Connections M,N		5,	/4"	
Tank capacity	(I)	50	100	
Approx. weight	(kg)	30	43	
Max. working pressure	(bar)	1,5	1,5	
Max. test pressure	(bar)	2,5	2,5	
Material		Stainless steel 304		



M - Solar in N - Drain Back out

Solar Panels (empty) 2 cm/m (2%) inclination inclination Fluid level once complete filling Pump Off Drain Back reservoir UniQube

In Operation



Operation modes of the DB reservoir with levels of fluid in it

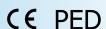


Heat Exchangers

Stainless steel corrugated pipe

Solarico helical coil heat exchangers were primarily designed for the production of domestic hot water of UniQube storage tanks. In order to get the most efficient hot water production, we put a lot of effort into the research and development of our heat exchangers.

We produced our design of helical coil heat exchanger, by using corrugated stainless steel pipe, as the most compact and efficient one. The tests show that these types of heat exchangers may be produced in various versions and transfer powers, for lots of applications especially in pool water heating.





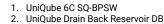


SELF-CLEANING, LESS MAINTENANCE

The material used is mirror surface finish lnox 316L. In combination with turbulencies and swirlings inside, the polished surface does not support deposits and limescale. It ensures a constant high performance and minimum maintenance throughout the entire service life.

CUSTOM DESIGN

We provide all the experience, knowledge, and manufacturing capacity to our clients for their specific designs and projects. The heat exchangers may be customized to meet the most varied requirements and applications. The length, fittings, and overall dimensions may be customized on request.



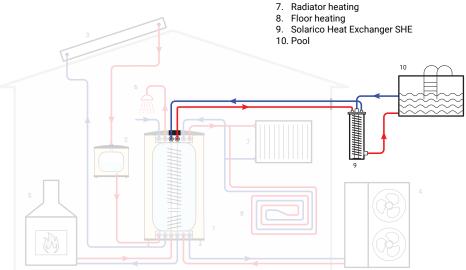
Solar collectors UniPlate 2.5 SB

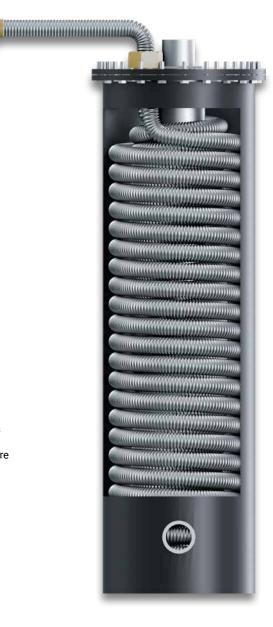
Heat pump

Boiler fireplace

DHW







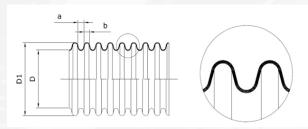
INCREASED HEAT TRANSFER RATE

Corrugated pipe heat exchangers, provide up to 60% improved performance, compared to conventional flat-plate heat exchangers, because of:

- Innovative fluid dynamics design There is a stratification tube inside, used in combination with a decentralized inlet and outlet for the pipesurrounding fluid.
- Geometrical design Choosing the right helical coil diameter, pipe diameter, and pitch dimensions are crucial to the heat exchanger performance. As the number of turns in the coil increases, the temperature drops of hot fluid also increased. The increase in the number of turns resulted in a higher rate of heat transfer.
- Physics Pipe corrugations cause continuous disturbance of the boundary layer of the tube side fluid, increase the amount of turbulence, mix the thermal layers, and lower the flow speed in the middle of the pipe. These effects increase the overall rate at which heat is transferred compared to laminar flow heat exchangers.

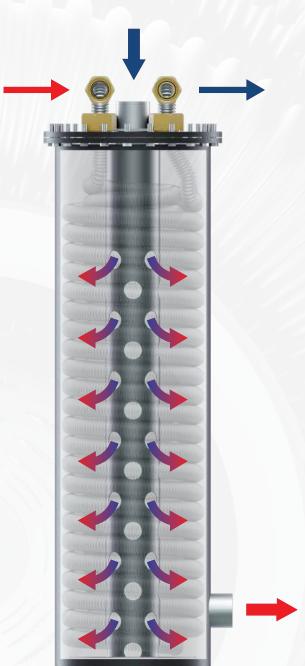
The stratification tube inside leads the primary fluid into complete contact with the heat transfer surface, **improving efficiency by 20%**.

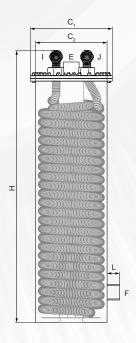
CORRUGATED PIPE



Solarico Heat Excha	ngers		
Corrugated pipe			
D	(mm)	25,20	
D ₁	(mm)	31,60	
а	(mm)	3,20	
b	(mm)	2,00	
Tolerance		±0,30	
Operating pressure	(bar)	11	
Suface area per meter	(m²/m)	0,191	
Min. section area	(mm²)	498,76	
Volume	(m³/m)	0,6335	

Material			Inox 3	316L	
Heat exchanger		310U	310D	440U	440D
C ₁ (diameter)	(mm)	300	300	300	300
C ₂ (diameter)	(mm)	250	250	250	250
H (height)	(mm)	910	380	1140	600
L (length)	(mm)	40	40	40	40
Total surface area	(m²)	5,10	1,00	6,80	1,40
Total pipe length	(m)	26,50	5,00	35,50	7,50
Total volume	(I)	14,68	4,64	19,31	7,73
Power (up to)	(kW)	25	7	35	10
Approx. weight	(kg)	39	22	46	29
Connections E,F			6/4	4"	
Connections E,F - material			Stainles	s steel	
Connections I,J			5/-	4"	
Connections I,J - material			Bra	ss	







Composite Expansion Vessels

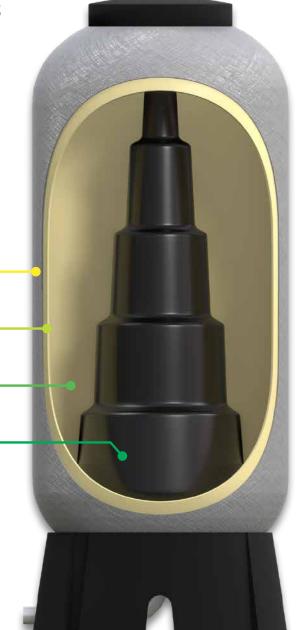
- HEAVY-DUTY MEMBRANE
 Does not support the build-up of nutrients key to forming biofilms
- AIR SPACE
 Up to 60% less heat losses compared to membrane types, due to minimized contact surface between warm water and vessel
- PLASTIC COMPOSITE RESERVOIR
 Does not rust and is inactive in contact with a long list of chemicals
- CONTAMINATION PREVENTION
 No stagnant warm water
- WARRANTY TERM
 Reservoir 30 years
 Membrane 5 years

Non-corrosive glass fiber

Non-corrosive plastic liner

Energy efficient air space

Flow-throug membrane











WHY PLASTIC-COMPOSITE EXPANSION VESSELS ARE A GOOD CHOICE?

Solarico plastic composite expansion vessels are suitable for booster systems, HVAC systems, cooling tower systems, spa systems, and evaporative condenser systems.

These expansion vessels will not corrode from the inside and outside too. There are no pieces of rust that may damage the inner membrane. The outside moisture and chemically active environment may not damage it too. That's why these are long lifetime vessels compared to conventional steel vessels.

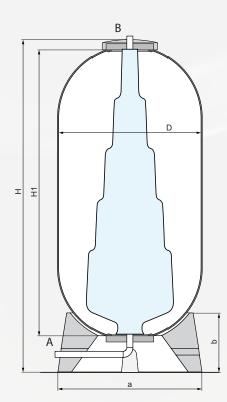
EXTENDED LIFETIME OF RESERVOIR AND MEMBRANE

Using this technology in the production of expansion vessels results in a long-lasting product that saves a lot of energy, and increases reliability, boosting cost-effectiveness.

- Lightweight vessels, easy to manipulate and transport
- Low heat losses
- Corrosion free

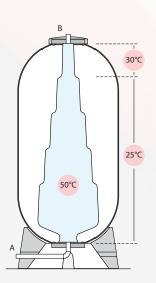


Composite Expansion Ver For heating and potable wate	310	440	800	
D (diameter)	(mm)	620	620	880
H1 (height)	(mm)	1300	1730	1730
H (height)	(mm)	1500	1950	1950
a (width)	(mm)	700	700	850
b (height)	(mm)	300	300	350
Net tank capacity	(I)	310	440	800
Approx. weight	(kg)	60	75	94
Max. working temp.	(°C)	90	90	90
Max. working pressure	(bar)	6	6	6
Max. test pressure	(bar)	9	9	9
Connections A,B			up to 6/4"	

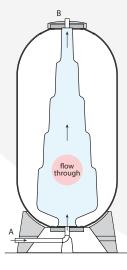


A - Inlet B - Outlet









FOR HEATING SYSTEMS

- Up to 60%, fewer heat losses compared to diaphragm types, due to the minimized contact surface between warm water and vessel
- Low heat losses due to minimum captured quantity of warm water
- Low heat losses due to thermal inertia of a plastic-composite reservoir
- No stagnant warm water contamination prevention
- Maintenance-free
- Limitless installation application; It can be installed in a moist environment, near the seaside, in basements, industrial space
- The heavy-duty butyl membrane does not support the build-up of nutrients key to forming biofilms
- Extended membrane lifetime. Lower elongation of our membrane provides less stress during operation
- Approved in accordance with pressure equipment guidelines 2014/68/EU

FOR POTABLE WATER SYSTEMS

- For potable water, pressure booster systems with or without flowthrough
- Reduces start/stops of the driving pump, saving energy, maintenance costs and improving lifetime of the pump
- Ensures constant water flow, even in case of pressure fluctuations
- Water just flows through this vessel, without stagnation, and keeps its primary quality
- Absorbs water hammers
- Ensuring smooth operation, protecting other system components
- Approved in accordance with pressure equipment guidelines 2014/68/EU



Composite Water Treatment and Pressure Tanks

Non-corrosive

Non-corrosive plastic liner

glass fiber

BENEFITS

- Lower power consumption because of keeping energy reserves and lowering short-cycling of the power generator.
- Extended reliability of the system, increased lifetime of equipment because of amortization of volume and pressure peaks.
- Lower maintenance cost because of the lifespan of the reservoir and increased lifetime of other equipment.
- Stabile system operation. Pressure tanks handle energy backup and energy reserve
- Safe process operation

AVAILABLE TYPES

- Volumes: 310, 440 and 800 liters
- Color: red, blue and gray
- Working pressure: 40 bar (on demand)









PLASTIC-COMPOSITE TECHNOLOGY

The inner plastic reservoir is made of cross-linkable HDPE or LHDPE:

- It does not rust and is inactive in contact with a long list of chemicals
- Operates at temperatures up to 90°C
- Warranty 30 years!

Composite filament winding is applied on the inner reservoir:

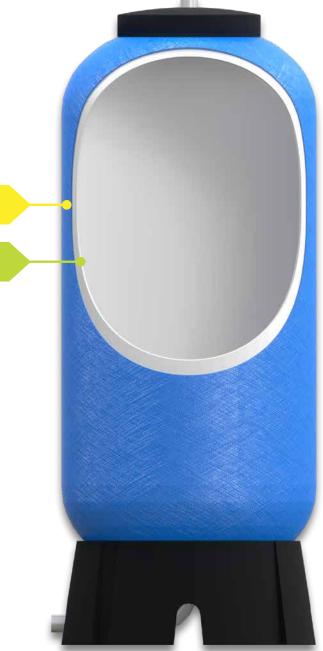
- It does not rust and is inactive in contact with a long list of chemicals
- Operates at temperatures up to 90°C
- Operates at pressure up to 9 bars
- Ability to short-run production we do not ask for a minimum order quantity

CLIENT-SPECIFIC PRESSURE VESSELS

As a manufacturer, we are able to design and manufacture pressure tanks for a wide range of pressure resistance, various types of the inner plastic liner, as well as with

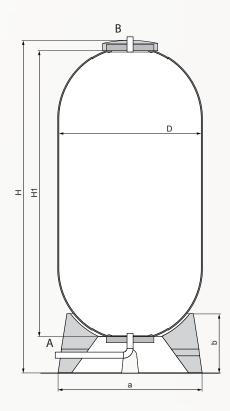
the most varied types and sizes of connections.

The tanks are customized to meet the most varied customer requirements and applications.





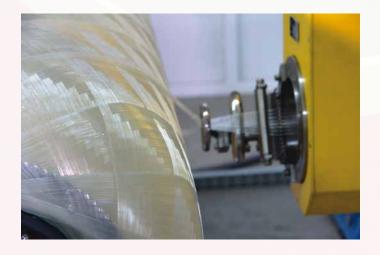
Composite Water Treatm Pressure Tanks	ent and	310	440	800
D (diameter)	(mm)	620	620	880
H1 (height)	(mm)	1300	1730	1730
H (height)	(mm)	1500	1950	1950
a (width)	(mm)	700	700	850
b (height)	(mm)	300	300	350
Net tank capacity	(I)	310	440	800
Approx. weight	(kg)	60	75	94
Connections			6/4"	
Max. working temp.	(°C)	90	90	90
Max. working pressure	(bar)	6	6	6
Max. test pressure (bar)		9	9	9
Water treatment reservoir				
Max. working temp.	(°C)		1÷50	
Max. working pressure	(bar)		10,5	
Max. test pressure	(bar)		16	



A - Inlet

WIDE RANGE OF APPLICATIONS

- Water treatment reservoir
- Compressed air tank
- Pressurized accumulators
- Booster accumulators for fresh water systems where there is not sufficient flow rate at the open taps. Pressurized accumulator is compensating it by carring water volume under the suitable pressure



WATER TREATMENT TANKS

We supply our clients with custom-designed reservoirs for water treatment with LHDPE liner inside. Our reservoirs are high quality, with long warranty term guaranteed by the manufacturer. We produce them in different colors and with or without insulation which prevents the condensation.

COMPRESSED AIR TANKS

Plastic composite tanks developed for accumulating compressed air, have huge advantages compared to conventional steel tanks. It is a lightweight reservoir easy to manipulate and install. It may be installed in the harshest environment because it will not rust in contact with water or many other condensates.

These tanks are designed the way to be safer than steel tanks. In case of bursting the glass fibers will be torn without flying metal pieces.

FUNCTIONAL BENEFITS

- Perfect reservoir for water treatment that will not rust, keeps the water clean by constant performance throughout the entire service life
- Stores energy and redistributes when required therefore reducing installed power
- Compensates pressure peaks resulting from thermal expansion or flow rate changes in hydraulic systems
- Compensates volume changes in closed hydraulic systems, that are consequences of thermal expansion of the fluid
- Stores energy for emergency cases. Accumulation can provide sufficient energy to complete an operation or to realize a full hydraulic cycle, in case of failure of the main energy source

B - Outlet

^{*} up to 5 connections each



UniPlate

Solar Thermal Collectors

- Full-plate high performance copper absorber with Eta plus selective foil 0.2 mm, corrugated
- High transmission low iron tempered safety glass, 4 mm thick
- Optimal insulation
- Aluminium casing
- Easy to install
- Stability and reliability
- 10 years guarantee

















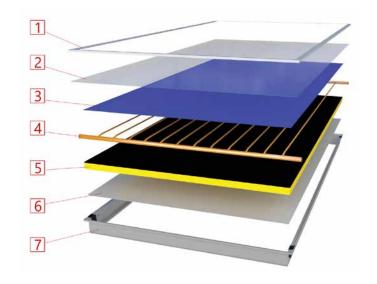


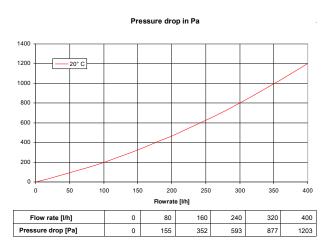
			• • • •	•		•		•	
UniPlate Model		2.5 SB	2.1 SB *	2.5 SB-U *	2.1 SB-U *	2.5 SB H *	2.1 SB H *	2.5 SB HV *	2.1 SB HV *
Gross area / Light entering area	(m²)	2,49 / 2,35	2,1 / 1,95	2,49 / 2,35	2,1 / 1,95	2,49 / 2,35	2,1 / 1,95	2,49 / 2,35	2,1 / 1,95
Absorber surface (corrugate)	(m²)	2,32	1,92	2,32	1,92	2,32	1,92	2,32	1,92
Absorber material				copper	sheet with "Eta plu	s" selective surface	coating		
Absorption coefficient (Eta plus)	(%)		95 ± 2						
Emission coefficient (Eta plus)	(%)		5±2						
Cu Pipe register frame	(mm)	Ø8 x 0,5							
Collective Cu pipe frame	(mm)	Ø22 × 0,8							
Absorber volume	(I)	1,7	1,3	1,7	1,3	1,7	1,3	1,7	1,3
Transparent front cover					4mm temper	ed solar glass			
Solar light transmission through glass	(%)				92	± 2			
Solar energy transmission through glass	(%)		91 ± 2						
Number of connections		4	4	2	2	4	4	4	4
Connection diameter	(R)				Ø	22			
Max. working / test pressure	(bar)				10	/ 14			
Stagnation temperature	(°C)				1	99			
Insulation - back side					40 mm glass v	wool (50kg/m³)			
Insulation - on the sides				-		-			
Back area					0.5 mm embosse	d aluminium sheet			
Collector construction					aluminium prof	il AlMgSi 0,5 F22			
Welding method					ultra	sonic			
Height/ Width/Depth	(mm)	2150 / 1160 / 90	2150 / 976 / 90	2150 / 1160 / 90	2150 / 976 / 90	2150 / 1160 / 90	2150 / 976 / 90	2150 / 1160 / 90	2150 / 976 / 90
Weight	(kg)	45	37	45	37	45	37	45	37
Absorber type		*		*	•	•			*

^{*} Produced on demand for larger quantities

The base version has single glazed tempered solar glass, used in applications such as domestic hot water (DHW), industrial hot water (IHW), swimming pools, etc.

- 1. Anondised aluminum batten
- 2. Hecker T-Safe Solarfloat tempered solar glass
- 3. Alanod Eta Plus Cu sheet with selective surface coating
- 4. Ultrasonic welded copper absorbers
- Mineral glass wool slab with 50 kg/m3 covered by layer of black fiber glass
- 6. Embossed back side AI metal sheet
- 7. Strong aluminum profile





0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
				т	m* [Km²/W	7]				
Reference	area	Ab	sorber area	3	Aperl	ure area		Gross	area	
η ₀ (-)		0.7	0.766		0.754	0.754		0.708	0.708	
a ₁ (W/m ² K	m ² K) 4.52			4.45	4.45			4.18		
a ₂ (W/m ² K	²)	0.0	0.0042		0.004	0.0041		0.0039	0.0039	

Collector efficiency for G = 800 W/m²

Absorber

····· Gross

1.0

0.9

0.8

0.7

0.5

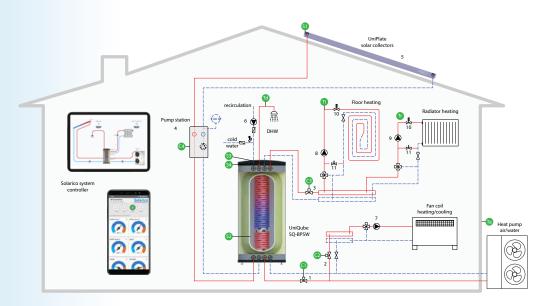
0.4

0.2





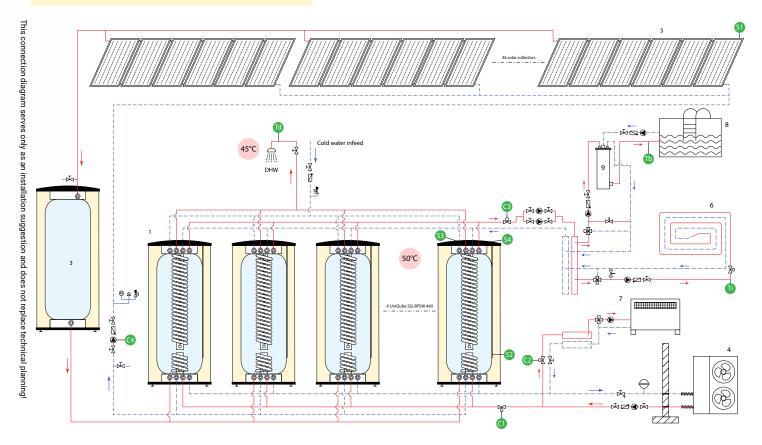
Heart of the system



Integration in hospitality industry **UniQube SQ-BPSW**

BENEFITS

- · Suitable for systems with variable heat consumtion
- 64kW solar power for the heating system, swimming pool and domestic hot water
- · No overheating in summer and no freezing in winter
- Supports installation of more collectors than conventional solar systems
- Save up to 60% energy with A-class efficient UniQubes
- · Comfort temperature regulation for each room
- · Improving the lifetime of circulators and heat source
- · At least 20% higher annual system efficiency due to the thermal stratification
- · Controlled by Solarico system controller.



- UniQube 6 x SQ-BPSW 440
- UniQube SQ-B 440
- Heat pump
- Solar collectors UniPlate 2.5 SB
- Floor heating
- Fan coil units
- Swimming pool
- Swimming pool heat exchanger



- Heat pump valve
- Fan coil units valve
- C3 - Heating valve
- Solar pump and valve
- Solar panels sensor
- S2, S3, S4 Storage tank sensors



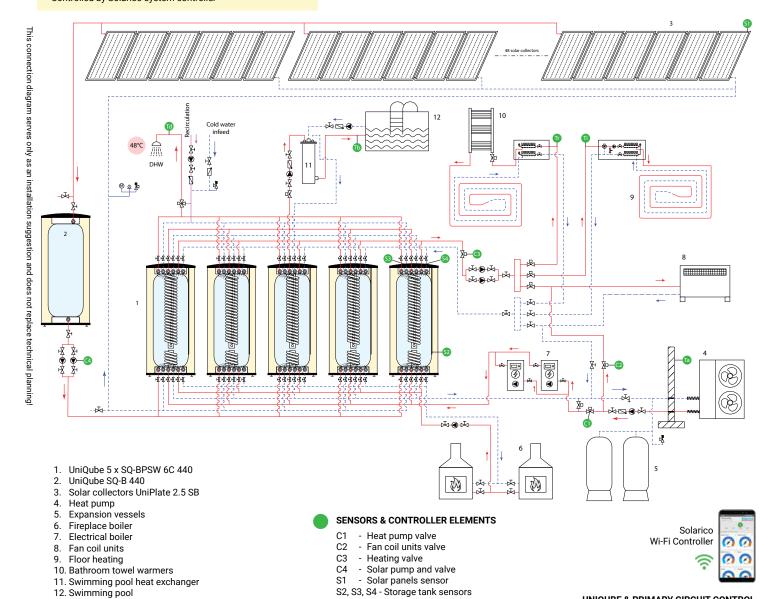
UNIQUBE & PRIMARY CIRCUIT CONTROL

		C1		C2	C3	C4	
l WINTER	WINTED	Heat pump heating - ON	S4 < 40°C	S4 > 55°C	ON	011	ON
	Solar heating - ON	ON	OFF*	ON	ON	ON	
WO.		Heat pump cooling - ON Solar heating - ON	OFF		ON		ON
**	SUMMER	DHW back up heating with Electric Heater	OFF		ON	OFF	
		DHW back up heating with heat pump	S4 < 40°C	S4 > 55°C	OFF		
			ON	OFF*	OFF.		

* Heat Pump high pressure protection if Solar DHW heating is set above 55°C

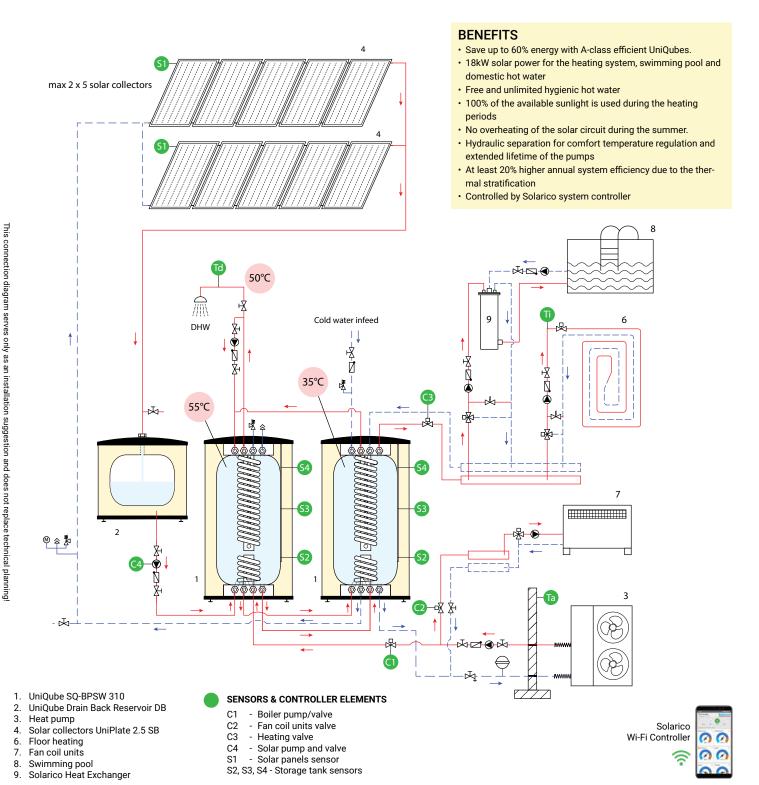
BENEFITS

- Tanks with direct integration of 6 heating circuits less distribution units
- 86kW solar power for the heating system, swimming pool and domestic hot water
- · No overheating in summer and no freezing in winter
- Supports installation of more collectors than conventional solar systems
- · Save up to 60% energy with A-class efficient UniQubes
- · Comfort temperature regulation for each room
- · Improving the lifetime of circulators and heat source
- At least 20% higher annual system efficiency due to the thermal stratification
- · Controlled by Solarico system controller



UNIQUEE & PRIMARY CIRCUIT CONTROL C2 S4 < 40°C S4 > 55°C Heat pump heating - ON WINTER ΟN ON ΩN Solar heating - ON ON OFF Heat pump cooling - ON OFF ON OFF DHW back up heating with Electric Heater ON SUMMER OFF ON S4 < 40°C S4 > 55°C DHW back up heating with heat pump

UniQubes in serial connection, integrated with heat pump and solar heating for home systems

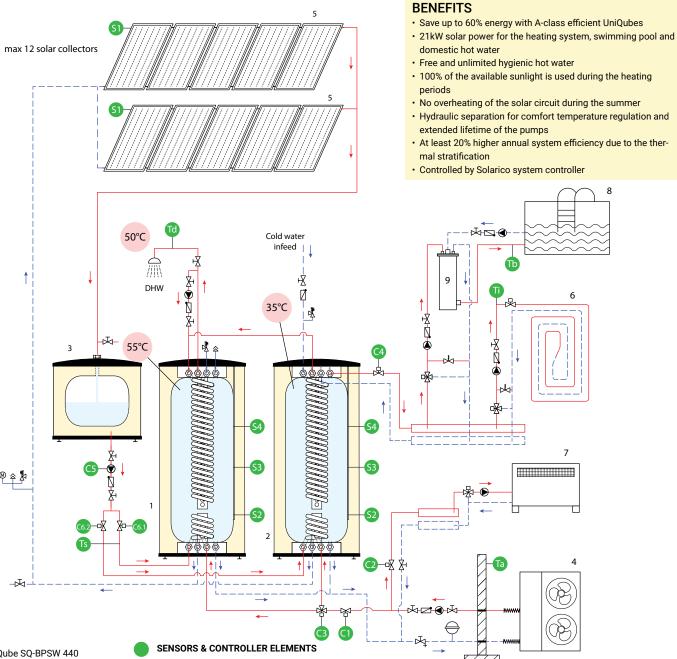


UNIOUBE & PRIMARY CIRCUIT CONTROL

		C1		C2	C3	C4	
WINTER ' '	WINTED	Heat pump heating - ON	S4 < 40°C	S4 > 55°C	ON	011	ON
	Solar heating - ON	ON	OFF*	UN	ON	UN	
110		Heat pump cooling - ON Solar heating - ON	OFF		ON		ON
₩	SUMMER	DHW back up heating with Electric Heater	OFF		ON	OFF	
		DHW back up heating with heat pump	S4 < 40°C	S4 > 55°C	OFF		
			ON	OFF*	OFF		



UniQube SQ-BPSW integration with heat pump and solar heating for home systems



- UniQube SQ-BPSW 440
- UniQube SQ-BPSW 440
- 3. UniQube Drain Back Reservoir DB
- Heat pump

This connection diagram serves only as an installation suggestion and does not replace technical planning!

- 5. Solar collectors UniPlate 2.5 SB
- Floor heating
- Fan coil units
- Swimming pool
- Solarico Heat Exchanger
- Heat pump valve - Fan coil units valve
- Three-way valve
- Heating valve C6.1 - Solar valve for DHW
- C6.2 Solar valve for heating
- Solar panels sensor
- S2, S3, S4 Storage tank sensors

Solarico Wi-Fi Controller



UNIQUBE & PRIMARY CIRCUIT CONTROL

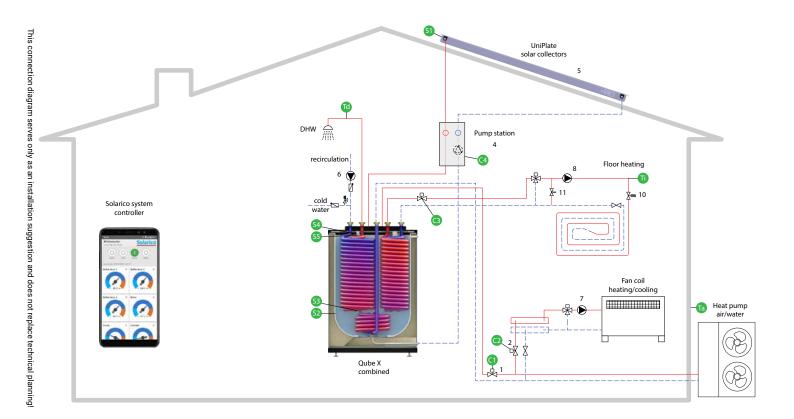
		C1 C2 -		C3			06.1	06.0		
				62	DHW (1)	Heating (2)	C4	C6.1	C6.2	
*	WINTED	neat pullip fleating - ON	S4 < 40°C	S4 > 55°C	ON	S4 < 40°C	S4 > 55°C	ON	S2 < 55°C	S2 > 55°C
	WINTER	Solar heating - ON	ON	OFF*		ON	ON		ON	ON
\$ 4.		Heat pump cooling - ON Solar heating - ON	0	FF	ON		OFF	OFF	ON	
Ģ ₽	SUMMER	DHW back up heating with Electric Heater	0	FF	ON	ON				OFF
		DHW back up heating with heat pump	S4 < 40°C	S4 > 55°C	OEE	OFF				
			ON	OFF*	UFF					

* Heat Pump high pressure protection if Solar DHW heating is set above 55°C

DHW + Solar Drain Back + Heat Pump Qube X for home systems

BENEFITS

- The underfloor heating may use solar heat up to 50% energy savings
- 4 heat sources or 3 heat sources + 1 heat consumer may be connected
- Save up to 60% energy with A-class efficient Qube ${\sf X}$
- Free and unlimited hygienic hot water.
- At least 20% higher annual system efficiency due to the thermal stratification
- · Best COP regimes



PRIMARY CIRCUITS

(hot/cold water sources)

- 1. Heat pump valve
- Fan coil valve
 Heating valve
- Solar system pump station
- Solar thermal panels

SECONDARY CIRCUITS

(hot/cold water consumers)

- 7. Circulation pump for fan coils
- 8. Circulation pump for floor heating
- 10. Individual room control/thermostat valve
- 11. Differential pressure / bypass valve

SENSORS & CONTROLLER ELEMENTS

- C1 Heat pump valveC2 Fan coil units valve
- C2 Fan coil units val C3 - Heating valve
- C4 Solar system station
- S1 Solar panels sensor
- S2, S3, S4 Storage tank sensors
- Ta External temperature sensor
- Td DHW sensor
- Ti Floor temperature limiter

QUBE X & PRIMARY CIRCUIT CONTROL

				C1		C3
*	WINTER	Heat Pump heating - ON Solar heating - ON	S4 < 40°C S4 > 55°C			
	heating and shower regime 45°C/40°C heating and shower regime 45°C DHW temperature 45°C heating and shower regime 0utput temperature 45°C		ON	OFF*	ON	ON
Ģ	SUMMER cooling regime	Heat pump cooling - ON Output Temperature is 7°C Heat Pump DHW Temperature is set to 50°C Solar DHW Temperature is set to 65°C	OFF		ON	OFF
•	SUMMER	Heat Pump heating - ON Output temperature 55°C	S4 < 40°C	S4 > 55°C		
	shower regime 55°C/50°C (on user's or sensor S4 request)	Heat Pump DHW temperature 50°C Solar DHW temperature is set to 65°C	ON	OFF*	OFF	OFF

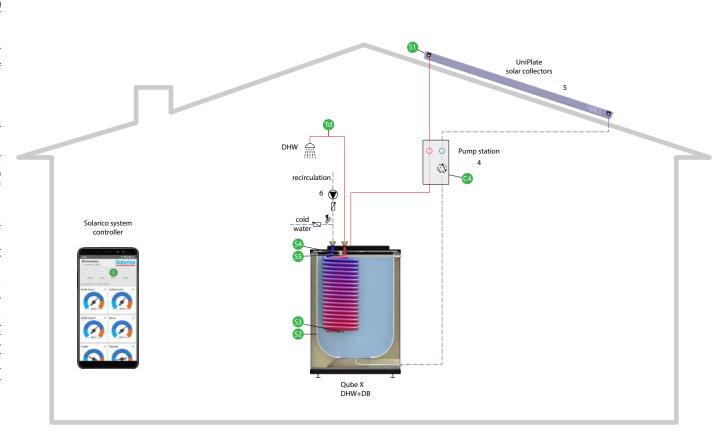
^{*} Heat Pump high pressure protection if Solar DHW heating is set above 55°C



Affordable Water Heater with Solar Drain Back Qube X for home systems

BENEFITS

- Save up to 60% energy with A-class efficient Qube X
- Free and unlimited hygienic hot water
- Up to 2 electric heating elements



PRIMARY CIRCUITS

(hot/cold water sources)

- 4. Solar system pump station
- 5. Solar thermal panels

SENSORS & CONTROLLER ELEMENTS

C4 - Solar system stationS1 - Solar panels sensor

S1 - Solar panels sensor S2, S3, S4 - Storage tank sensors

QUBE X & PRIMARY CIRCUIT CONTROL

			C4
* *	WINTER / SUMMER heating and shower regime		(S4 + 10°C) < S1 and S4 < Tset
		Solar heating - 0N	ON

^{*} Heat Pump high pressure protection if Solar DHW heating is set above 55°C

Solar and Heat Pump - All in One solution UniQube for home systems

GET MORE THAN A-CLASS EFFICIENCY

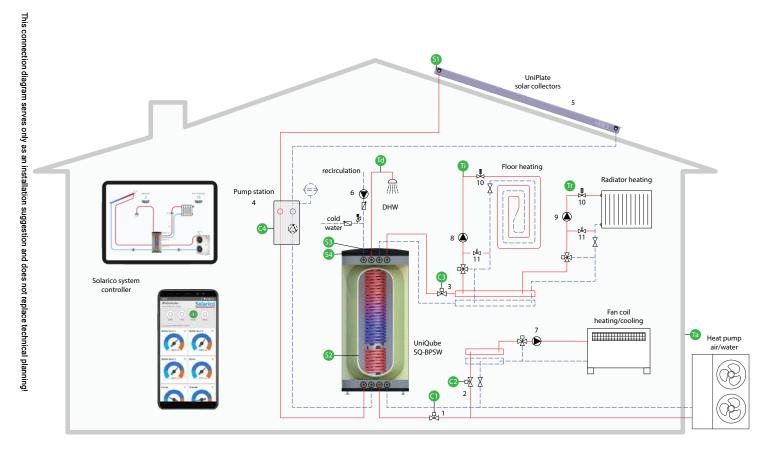
The Inputs - Heat Pump and Solar Thermal

The Outputs - Heating and Hygienic Hot Water

Inside - Thermal Stratification and Hydraulic Separation

BENEFITS

- Save up to 60% energy with A-class efficient UniQubes
- Free sun power for Home Heating
- Free sun power for Hygienic Hot Water
- · Instant hygienic hot water
- Comfort temperature regulation for each room
- · Improving the lifetime of pumps
- · Improving the lifetime of heat source
- · Heat storage during the cheap tariff
- · Storage of the excessive sun heat
- · Improved annual system efficiency by 20% and more



PRIMARY CIRCUITS

(hot/cold water sources)

- 1. Heat pump valve
- Fan coil valve
 Heating valve
- Solar system pump station
- 5. Solar thermal panels

SECONDARY CIRCUITS

(hot/cold water consumers)

- 7. Circulation pump for fan coils
- 8. Circulation pump for floor heating
- 9. Circulation pump for radiator heating10. Individual room control/thermostat valve
- 11. Differential pressure / bypass valve

SENSORS & CONTROLLER ELEMENTS

- C1 Heat pump valve
- C2 Fan coil units valve C3 - Heating valve
- C4 Solar system station
- S1 Solar panels sensor
- S2, S3, S4 Storage tank sensors
- Ta External temperature sensor
- Td DHW sensor
- Ti Floor temperature limiter
- Tr Individual room control

UNIQUBE & PRIMARY CIRCUIT CONTROL

		C1		C2	C3	C4	
l WINTER	WINTED	Heat pump heating - ON	S4 < 40°C	S4 > 55°C	ON		ON
	Solar heating - ON	ON	OFF*	ON	ON	ON	
110		Heat pump cooling - ON Solar heating - ON	OFF		ON	OFF	ON
**	SUMMER	DHW back up heating with Electric Heater	OFF		ON		
		DHW back up heating with heat pump	S4 < 40°C	S4 > 55°C	OFF		
			ON	OFF*	UFF		



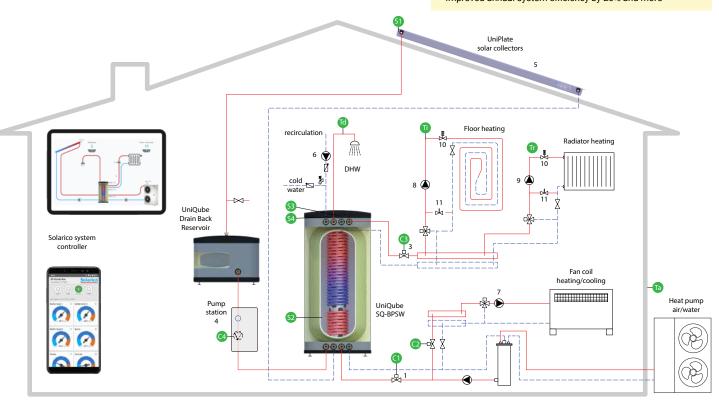
Powerfull Drain Back Solar-Heat Pump All in One solution (separate DB reservoir) for home systems

GET MORE THAN A-CLASS EFFICIENCY

The Inputs - Heat Pump and Solar Thermal
The Outputs - Heating and Hygienic Hot Water
Inside - Thermal Stratification and Hydraulic Separation

BENEFITS

- Suitable for systems with irregular hot water consumtion like hospitality industry
- · No overheating in summer and no freezing in winter
- Supports installation of more collectors than conventional solar systems
- · Real free solar heating for your home
- · Save up to 60% energy with A-class efficient UniQubes
- · Free sun power for Hygienic Hot Water
- · Instant hygienic hot water
- · Comfort temperature regulation for each room
- · Improving the lifetime of pumps
- · Improving the lifetime of heat source
- Heat storage during the cheap tariff
- · Storage of the excessive sun heat
- · Improved annual system efficiency by 20% and more



PRIMARY CIRCUITS

This connection diagram serves only as an installation suggestion and does not replace technical planning!

(hot/cold water sources)

- Heat pump valve
- Fan coil valve
 Heating valve
- Solar system pump station
- 5. Solar thermal panels

SECONDARY CIRCUITS

(hot/cold water consumers)

- 7. Circulation pump for fan coils
- 8. Circulation pump for floor heating9. Circulation pump for radiator heating
- 10. Individual room control/thermostat valve
- 11. Differential pressure / bypass valve

SENSORS & CONTROLLER ELEMENTS:

C1 - Heat pump valve

C2 - Fan coil units valve C3 - Heating valve

C4 - Solar system station

S1 - Solar panels sensor

S2, S3, S4 - Storage tank sensors

Ta - External temperature sensor

Td - DHW sensor

Ti - Floor temperature limiter

r - Individual room control

UNIQUBE & PRIMARY CIRCUIT CONTROL

		C1		C2	C3	C4	
I WINTER	WINTED	Heat pump heating - ON	S4 < 40°C	S4 > 55°C	ON		ON
	Solar heating - ON	ON	OFF*	UN	ON	ON	
N		Heat pump cooling - ON Solar heating - ON	OFF		ON	OFF	ON
**	SUMMER	DHW back up heating with Electric Heater	OFF		ON		
		DHW back up heating with heat pump	S4 < 40°C	S4 > 55°C	055		
			ON	OFF*	OFF		

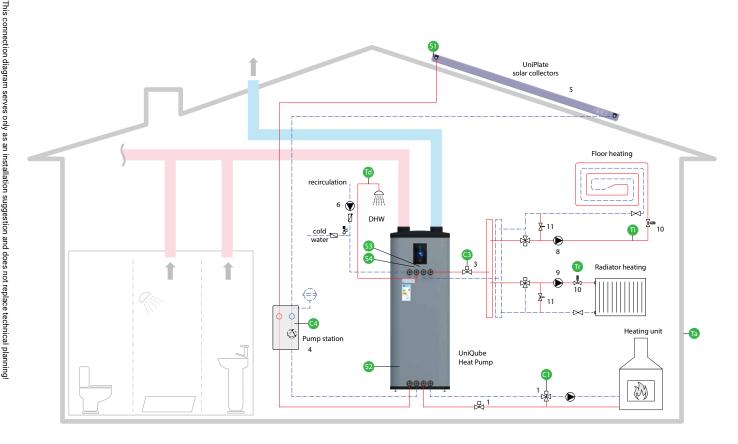
Solar-Heat Pump Integrated Water Heater with Biomass Boiler back up for home systems

GET MORE THAN A-CLASS EFFICIENCY

The Inputs - Integrated Heat Pump and Solar Thermal The Outputs - Heating and Hygienic Hot Water Inside - Thermal Stratification and Hydraulic Separation

BENEFITS

- · Integrated heat pump instead of conventional electric heater at the top of the tank
- · Saves more than 70% for domestic water heating compared to conventional water heaters
- · Stores heat during the cheap tariff, and use it on demand
- · Uses the waste heat of your home back into the heating
- · Uses the ambient heat
- Operates at external air temperatures of -10 °C.
- · Ventilates bathrooms and/or cools storage rooms
- Safe water heating No electrical heater in direct contact with



PRIMARY CIRCUITS

- Boiler valve
- Heating valve
- Solar system pump station
- Solar thermal panels

SECONDARY CIRCUITS

- Circulation pump for floor heating
- Circulation pump for radiator heating
- 10. Individual room control/thermostat valve
- 11. Differential pressure / bypass valve

SENSORS & CONTROLLER ELEMENTS

Heating valve

Boiler valve Solar system station Solar panels sensor

S2, S3, S4 - Storage tank sensors Та

External temperature sensor

DHW sensor

Floor temperature limiter

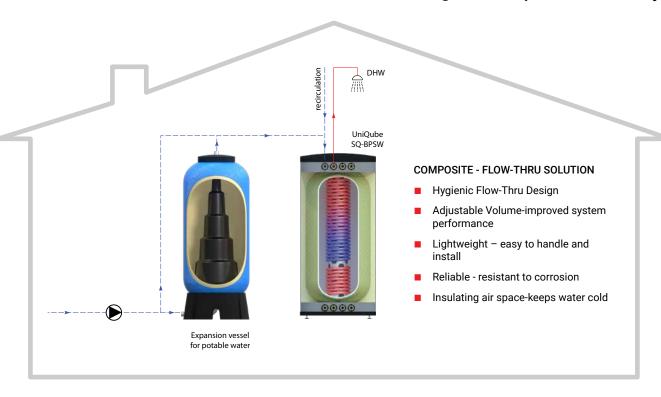
Individual room control

UNIOUBE & PRIMARY CIRCUIT CONTROL

			(21	C3	C4
*	WINTED	Boiler heating - ON	S4 < 40°C	S4 > 55°C	ON	ON
	WINTER Sola	Solar heating - ON	ON	OFF*	ON	ON
***		Solar heating - ON	0	FF		
₩	SUMMER	DHW back up heating with Electric Heater	OFF		OFF	ON
		DHW back up heating with heat pump	S4 < 40°C	S4 > 55°C		
			ON	OFF*		

COMPOSITE - LIFETIME SOLUTION Lightweight – easy to handle and install Reliable - resistant to corrosion Energy saver – insulating air space Resistant to temperature variations Adaptable to pressure fluctuations 10 years guarantee

Composite Expansion Vessels Integration in potable water systems









- Solar Thermal Collectors
- Multi-Functional Storage Tanks and Hygienic Water Heaters
- Drain Back Reservoirs
- Expansions Vessels
- Pressure Vessels
- Heat Exchangers



















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