

# Solarico®

INNOVATIVE  
PLASTIC COMPOSITE  
NEW GENERATION

HYGIENIC WATER HEATER  
DRAINBACK SOLAR STORAGE TANK  
STRATIFIED SEPARATOR ACCUMULATOR

## GENERAL BENEFITS

- INTEGRATED HEAT PUMP
- HIGH C.O.P.
- SIMPLE INSTALLATION AND CONTROL



## UniQube Heat Pump

*Hot water storage tank with integrated heat pump*





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- **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



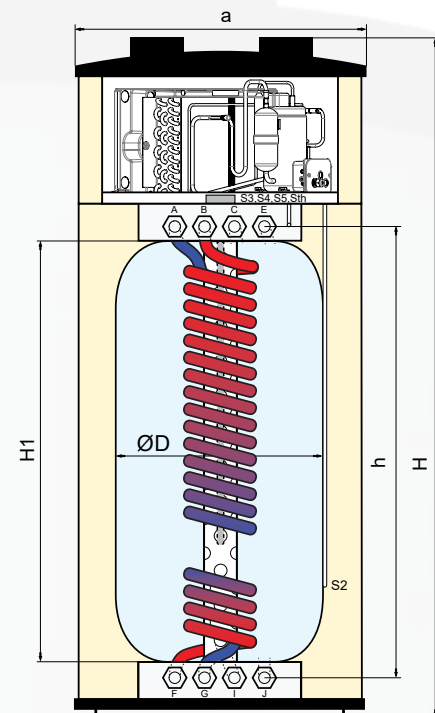
## 6 FUNCTIONS HEAT PUMP INTEGRATED TANK

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



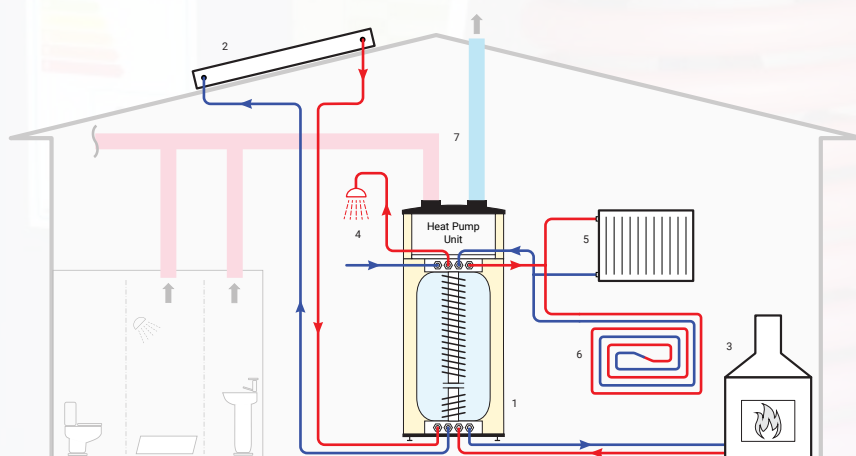
UniQube SQ-BPSW HP		310	Heat Pump Unit DHWHP-O		3000
D (diameter)	(mm)	620	Operational area of the compressor	°C	-3 ÷ 35
H1 (height)	(mm)	1300	Max. temperature of output water	°C	55
h (connectors)	(mm)	1320	Heat output	W	2800
H (height)	(mm)	2000	C.O.P. A20/W15-W45		4.1
a (width)	(mm)	725	Type of compressor		Hitachi - rotary
Pivot measurement	(mm)	2130	Compressor consumption	W	695
Net tank capacity	(l)	290	Rated current of the compressor	A	3.2
Approx. weight	(kg)	119	Refrigerant		R134a
Connections C,E,I,J		5/4"	Electricity supply		230V / 1Ph / 50Hz
Max. working temp.	(°C)	90	Required fuse	A	16
Max. working pressure	(bar)	6	Noise level	dB(A)	48
Max. test pressure	(bar)	9	Airflow	m³	500
S2 Solar sensor position	(mm)	1110	Available pressure	Pa	60
S3 DHW sensor position	(mm)	600	Diameter of air pipe	mm	150
S4 Heating sensor position	(mm)	140	Max. length of air pipe	m	10
S5 Overheating protection	(mm)	140	Net weight of heat pump unit	kg	40
Nominal flow (all exchangers)	(l/min)	20	Use of hot water cycle		XL
Max. flow (all exchangers)	(l/min)	30	Sanitary water heating energy class		A
<b>Solar heat exchanger</b>					
Connections F, G		5/4"			
Max. working pressure	(bar)	10			
Max. test pressure	(bar)	15			
Capacity	(l)	2,85			
Output area	(m²)	1,05			
<b>DHW heat exchanger</b>					
Connections A, B		5/4"			
Max. working pressure	(bar)	10			
Max. test pressure	(bar)	15			
Capacity	(l)	16,15			
Output area	(m²)	5,06			



- 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
2. Solar collectors UniPlate 2.5 SB
3. Heating unit (fireplace boiler)
4. DHW
5. Radiator heating
6. Floor heating
7. Air ducts

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



## PRODUCTION FACILITY:

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