

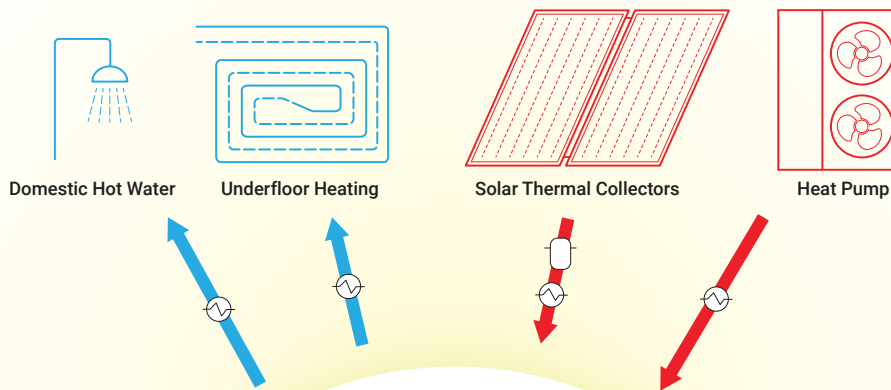
# Solarico®

INNOVATIVE  
PLASTIC  
NEW GENERATION

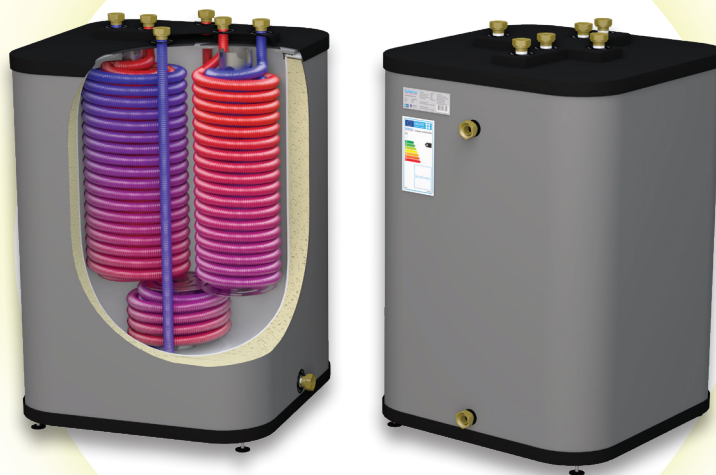
DOMESTIC WATER HEATER  
DRAIN BACK SOLAR STORAGE TANK  
ACCUMULATOR


## GENERAL BENEFITS

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



## QUBE X Hygienic Water Heater



 Heat Exchanger

 Accumulator

solarico.eu



# QUBE X

## APPLICATION

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

## BENEFITS

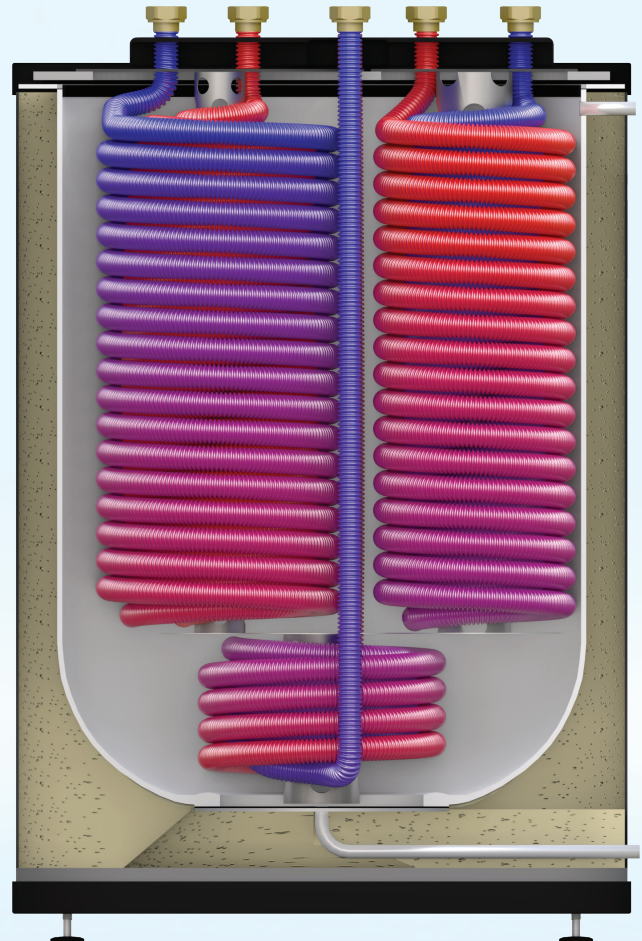
- Lightweight
- Easy to manipulate
- Installer friendly
- Lower transport costs

## 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

**"A" class energy efficient water heater**  
**Drain back solar + Hygienic hot water**



## Hygienic on-demand domestic hot water

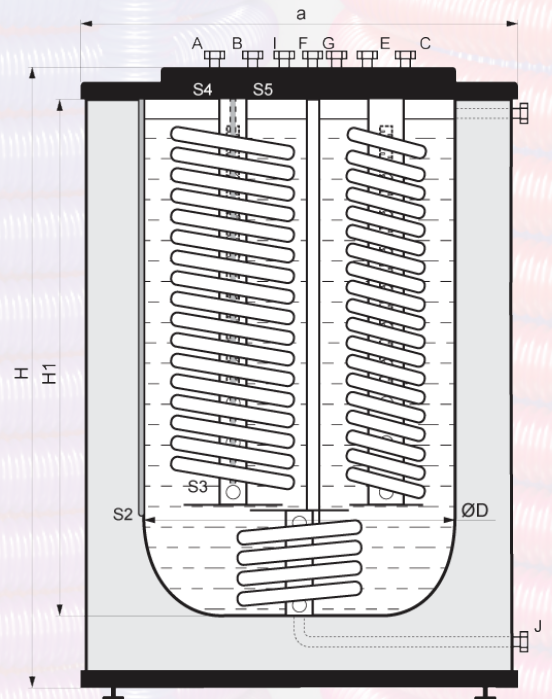
- 10÷30% energy savings due to on-demand principle of heating of water for domestic use. It uses energy to heat up the water only when the user opens the tap
- Improved Legionella prevention through the use of continuous flow principle
- Application - in the HORECA industry, kindergartens, schools, hospitals,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

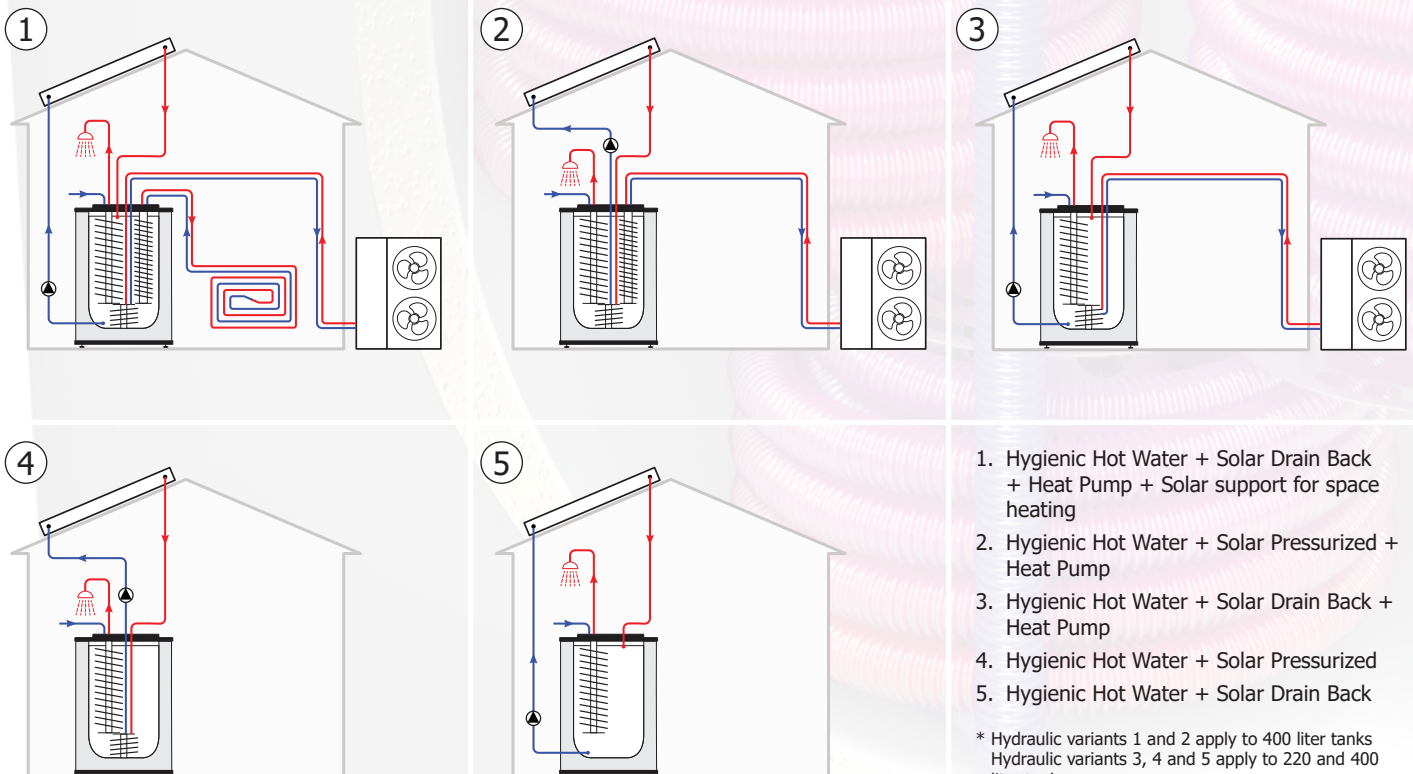
## QUBE X WATER HEATER

TYPE		220	400
D (diameter)	(mm)	620	890
H1 (height)	(mm)	845	845
Connections I, J		5/4"	5/4"
H (height)	(mm)	1030	1030
a (width)	(mm)	725	960
max. working temp.	(°C)	90	90
Gross tank capacity	(liters)	220	400
S2 Solar sensor position	(mm)	780	780
S3 Heating sensor position	(mm)	140	140
S4 DHW sensor position	(mm)	600	600
Pivot measurement	(mm)	1260	1408
<b>Solar heat exchanger</b>			
Connections F, G		5/4"	5/4"
capacity	(liters)	5	8
output area	(m <sup>2</sup> )	1,2	2
<b>Water heat exchanger</b>			
Connections A, B		5/4"	5/4"
capacity	(liters)	23	31
output area	(m <sup>2</sup> )	4	5
<b>Heating exchanger</b>			
Connections C, E		5/4"	5/4"
capacity	(liters)	18	24
output area	(m <sup>2</sup> )	3	4



A - Cold water in  
 B - Hot water out  
 C - Heating in  
 E - Heating out  
 F - Solar in  
 G - Solar out  
 I - Solar Drain Back in  
 J - Solar Drain Back out

S2 - Solar sensor  
 S3 - DHW / Heating, middle sensor  
 S4 - DHW / Heating, top sensor  
 S5 - Overheating protection sensor



1. 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

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