




ECOBUILD
smart building components



Shower Water Chiller



Improve the quality of your life!

In regions where the ambient temperature often exceeds 45°C (= 115°F), the cold water used for showering can reach more than 40°C. Therefore it significantly improves the quality of life to have a large reservoir of cold water for this purpose.

ECOBUILD shower water chillers are the best choice for this demand. Manufactured in Europe, the chillers meet highest quality standards, ensure reliable and easy operation and supply a large amount of cold water using minimum energy.

100% renewable energy

The energy demand for ECOBUILD shower water chillers is below 500W. Therefore the main source of energy can be a small photovoltaic systems existing of only two panels. Thus your comfortable cool shower experience can be supplied by 100 percent renewable energy – to improve the quality of your life – and to save valuable energy resources.

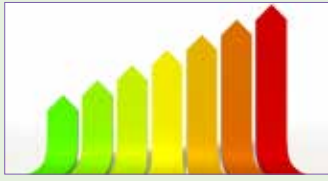
Applications

- Showers
- Spas
- Pools
- Baths
- Cold plunges
- Eye wash

Advantages of the ECOBUILD Shower Water Chiller



Low Energy Consumption



At an ambient temperature of approx. 50°C, water at 40°C can be cooled down to 15°C with less than 500W.

Easy Installation: plug-and-play



The ECOBUILD Shower Water Chiller is a pre-assembled plug-and-play unit, which can be installed easily.

100% Renewable Energy



Using a small photovoltaic system (only two panels), the necessary 500W can easily be supplied by the power of the sun (optional).

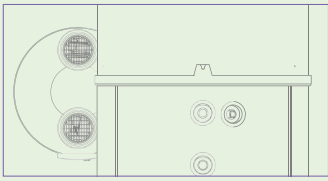
Designed for high ambient temperature



In regions with high ambient temperatures (up to 50°C), the “cold water” often reaches more than 40°C. It is necessary to cool it down for showering.

YOUR

Small Foot Print



The unit needs less than 0.5 m² in the plant room of e. g. a villa – minimal floor space for a maximum of cold water.

Low Price



One ECOBUILD Shower Water Chiller costs only EUR 1,990^{*)}. And you save operation costs due to the low energy demand.

Highest Quality



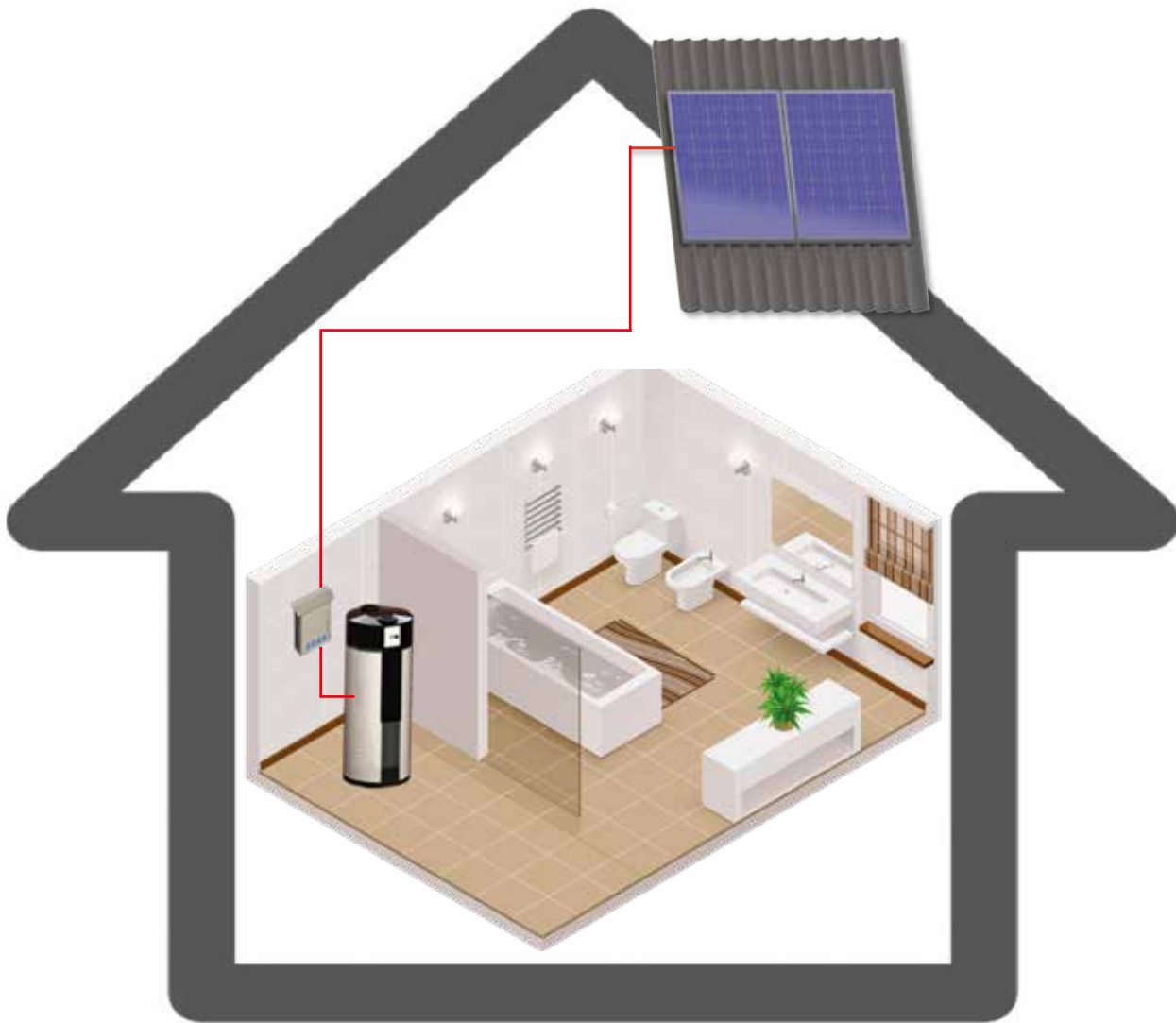
The unit is manufactured in Europe and therefore meets highest quality standards – for a reliable operation and a long life-time.

Large amount of cold water in 24h



With a storage volume of 266 litres more than 500 litres of cold water at 15°C can be supplied within 24 hours.

BENEFITS



Optional: Powered by Solar PV



The sun rays excite electrons inside the solar photovoltaic panels, which create DC electric current. An DC/AC inverter converts the DC power into standard household AC power for use in the home, synchronizing with utility power whenever the electrical grid is distributing electricity.

The produced photovoltaic electricity, that is not used in the household can be fed into the public grid (if available) or used for other consumers in the villa. Each kWh is credited

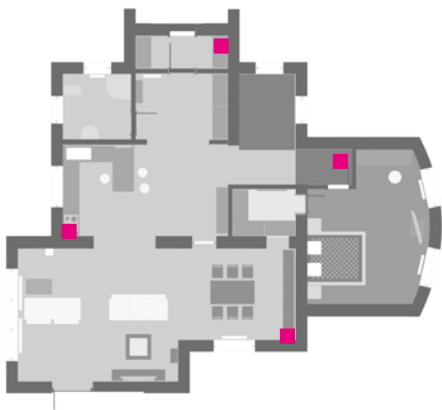
and therefore only the balance of consumed electricity is invoiced.

Minimum roof space

Since the ECOBUILD Shower Water Chiller only needs 500 W, two standard photovoltaic panels are enough to supply this necessary power. The utility power is automatically provided at night and also during day time when the demand exceeds the solar power production.



ECOBUILD Hot Water Heat Pump: Reduce Electrical Connection Power - up to 92% Electrical Consumption - up to 72%

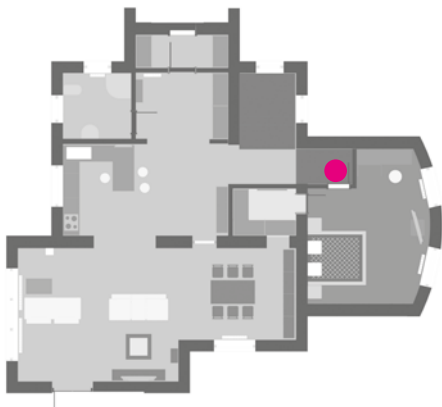


Conventional design for hot water generation: several electric water heaters

For a regular villa for one family usually up to 4 electric water heaters are mounted in several bathrooms as well as in the kitchen for hot water preparation. Each of these units has an electric heating element with 1.5 to 2 kW, some of them operating several times a day. Therefore one villa needs in average about 9 kWh for the hot water generation.

Regular Design:
8 kW electrical connection power

approx. 9.0 kWh per day^{*)}



ECOBUILD design for hot water generation: one central unit

The ECOBUILD Hot Water Heat Pump requires only 0.5 kW electrical power. One unit can usually provide enough hot water for a regular villa. In average one unit needs 2.6 kWh capacity per day.

ECOBUILD Design:
0.5kW electrical connection power

approx. 2.6 kWh per day^{*)}

^{*)} Calculations are based upon 230 litres of 60°C hot water per day.

ECOBUILD Shower Water Chiller SCHP 395

Technical Data

Dimensions:	H: 1768mm, Ø 707mm
Weight without packaging:	145 kg
Voltage / Frequency:	230 V / 50 Hz Phase-Neutral-Earth
Heat pump input:	395 Watt
Heat pump output:	1200 Watt
High supplementary heating:	2000 Watt / 230 V
Refrigerant:	R134a
Quantity of air:	Min. / Max. 200 / 300 m ³ /h
Air temperature:	Min. – 10°C to Max. +45°CW
Cold water storage tank:	Enamelled, 266 litres (optional: stainless steel)
Working pressure:	Max. 1 MPa / 10 bar
Anode:	Magnesium – 5/4" RG
Water temperature:	Adjustable - Min. 13°C
Cold water output:	504 litres at 15°C / 24h
Water connections	
• Cold water:	1" RT
• Hot water:	1" RT
• Condensation water:	1/2" RT
• Heat exchanger:	1" RT
• Circulation connection:	3/4" RT
Electronic:	Yes
Air inlet / outlet:	Top / Top
Duct connection:	Ø 160 mm

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ECOBUILD – a brand of ECOTHERM Austria

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