

PUROTAP[®] micro

Perfect for every home – one unit that produces demineralised water
for correctly topping up the heating system and general household use



PUROTAP[®] micro filters mineral salts out of tap water to provide demineralised water for a heating system and general household use. The convenient wall mounted unit enables access to distillate-quality water at any time, be it for topping up the heating water, for cleaning windows or cars, for use in the iron or as aquarium water.

PUROTAP[®] micro – convenient, ecological, reliable.

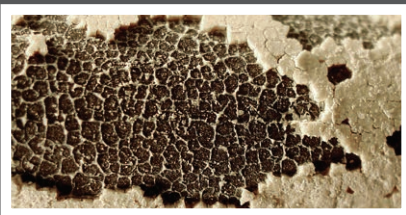
Standards for heating water

According to current VDI and SWKI standards, fill water for heating systems should be pretreated to prevent the formation of mineral deposits. Practical experience has shown that even water with a low hardness level can produce limescale deposits that may damage modern appliances such as wall mounted gas boilers, heat pumps and solar thermal systems. The larger the system's water content (e.g. cylinders), the more limescale introduced by the fill water. Water with a hardness of 17 °dH (30 °fH) produces 300 grams of limescale for each cubic metre of water. For a system in a single family home with 350 litres of water, this results in approx. 100 grams, more than enough to disable a modern high performance heat exchanger.

Potential consequences of non-demineralised tap water in water-filled systems:



Sludge



Scaling



Pitting, corrosion

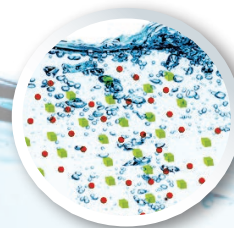
Why treated water for technical purposes?

Water circuits need demineralised water

Water-filled systems, such as heating and cooling systems, power plants, industrial installations and ship engines, place high demands on water quality. Tap water contains minerals, salts and gases that lead to deposits of sludge, limescale and rust in water-filled systems. Tap water must be filtered until it is suitable for the desired technological application. In terms of its chemical and physical properties, technical water must comply with the technical standards established by manufacturers, engineers and professional associations.

The main benefits of demineralised water

- greater energy efficiency
- reduced maintenance costs
- allows for guarantee claims and consumer protection



Tap water: enriched with minerals and gases



Pure treated water for technical purposes after filtration through mixing bed ion resin

Demineralised water is stipulated for filling heating systems by leading boiler manufacturers and by the Swiss Society of Building Technology Engineers.

**Easy and assured compliance with the following standards:
SWKI BT 102-01, VDI 2035 Part 2, ÖNORM H 5195-1**

PUROTAP® micro wall unit

It's never been easier – H2O for heating and household

Install the PUROTAP® micro wall mounted unit in the utility room for access to demineralised water at any time. The cartridge filters limescale and corrosive substances such as sulphates, nitrates and chlorides out of the fill water and provides demineralised, fully desalinated water.

Due to its purity, demineralised water is suitable for various applications.

You can remove the cartridge from the wall mounting bracket and simply attach it to any commercially available garden hose, using a click-fit system.

The connection is compatible with Gardena, Kärcher and other common suppliers.



Main applications

■ Heating water

According to European standards, water for filling and topping up heating systems should generally be demineralised. Practical experience has shown that, even at a low hardness level, limescale deposits can cause damage to modern appliances, such as wall mounted gas boilers, heat pumps and solar thermal systems.



■ Solar panel cleaning

Failure to clean solar PV panels can reduce their output by as much as 20 %. Cleaning them with drinking water causes limescale deposits. Mechanical cleaning with demineralised water achieves optimum and safe results.



■ Cleaning windows

The outdoor use of cleaning agents should be avoided. Windows, conservatories and cars washed with a brush and demineralised water will dry with a perfect, smear-free shine.



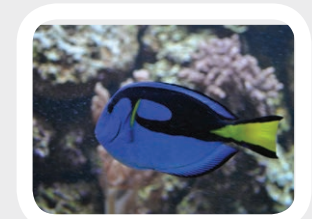
■ Steam production

Limescale-free steam production in irons, air humidifiers, steamers, etc. for improved operation and less maintenance and wear.



■ Aquariums

Recommended by pet shops as base and top-up water for special fish breeding. Please note: It is imperative that you consult the zoological specialist's instructions before use.



Specifications and dimensions

Cartridge weight	1.5 kg
Max. pressure, monitored, temp.	4 bar
Max. temperature, monitored, temp.	60 °C
Material	PS, PP
Disposal	Domestic waste

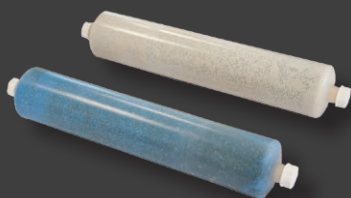


The throughput (l/min) depends on the salt content of the raw water. The higher the salt content, the lower the throughput. The service life of the filter cartridge depends on the contamination level of the raw water. Turbid materials, rust particles, organic contaminants, among others, shorten the service life of the filter membrane.

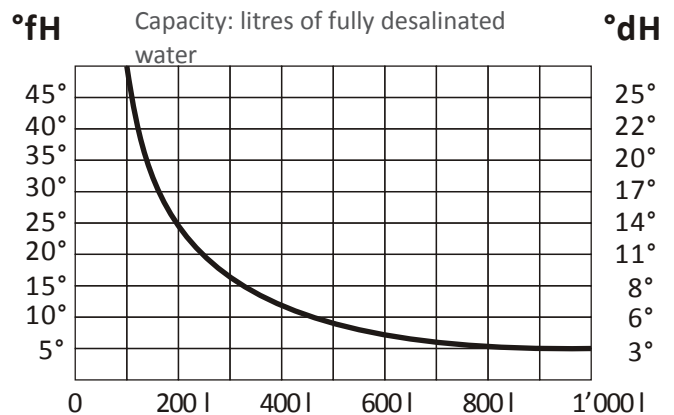
Not suitable for desalinating any other water sources except tap water from the drinking water supply. Do not subject to non-supervised, permanent pressure. Not suitable for permanent connection.

Colour change

The cartridge is spent once the resin within it changes from blue to pale grey/beige. The cartridge then needs to be replaced.



Capacity



The above table shows the capacity of a full desalination cartridge as a function of the total hardness of the fill water.

Example: At a hardness of 25 °fH/14 °dH, PUROTAP® micro delivers approximately 200 litres fully desalinated water, at a hardness of 15 °fH/8 °dH, approximately 330 litres.

Replacement cartridge

The cartridge is used up when the colour of the resin in the cartridge changes from blue to beige. The filter is then spent and the cartridge must be replaced.



GOOD REASONS

FOR THE HEATING SYSTEM:

- no rust
- no scaling
- no gases
- low conductivity
- complies with current standards (consumer protection)

FOR HOUSEHOLD USE:

- environmentally responsible, efficient cleaning
- no manual drying required after
- less cleaning agent required
- protects appliances