

PUROTAP® mixed bed resin

PUROTAP highpower & PUROTAP nexion

Demineralised water is perfect for all
building services systems

**NEW IN
2
QUALITIES**



Two qualities of PUROTAP® ion exchange resin for demineralising tap water are now available.

The proven highpower resin with a high capacity for conventional heating systems has now been joined by the new PUROTAP nexion resin with a defined surplus of anion resin for regulating the pH. Perfect water for the new generation of systems such as those with heat pumps, large capacity cylinders, etc.

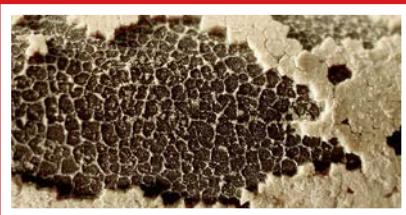
Standards for heating water

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 detached house 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 formation



Scaling



Pitting, corrosion

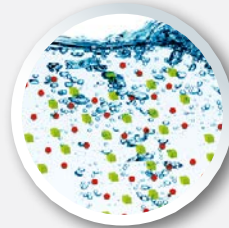
Tested ion exchange resin

The quality and composition of the ion exchange resin used for full desalination can have a major impact on whether or not a heating system is liable to suffer from corrosion right from the start.

There are significant quality differences in the composition of ion exchange resin.

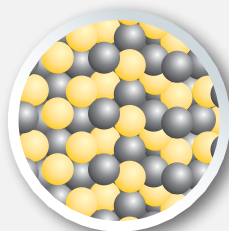
For this reason, ELYSATOR® checks the production and mixing of its resin with the utmost care. Only the best quality reaches the market.

Vacuum packaging protects the resin against carbon dioxide enrichment.



1

Domestic hot water, enriched with minerals and gases



2

Tested PUROTAP®
2-component mixed bed resin:
PUROTAP® highpower or
PUROTAP® nexion



3

Fully desalinated water through ion exchange



PUROTAP® highpower resin

The proven resin with a high capacity for filling and topping up conventional heating systems

Main applications

Particularly suitable for demineralised filling, top-up water and the desalination of

- conventional gas and oil combustion systems
- systems already commissioned

Benefits

- high capacity
- maximum performance at an interesting price
- to VDI/SWKI
- Certified quality
- vacuum-packed



PUROTAP highpower 12.5 litres

Volume	12.5 litres
Capacity	20 m ³ at 1 °dH 35 m ³ at 1 °fH
Topping up to	PUROTAP easy PUROTAP compenso 12

PUROTAP highpower 25 litres

Volöume	25 litres (2 x 12.5 l)
Capacity	40 m ³ at 1 °dH 70 m ³ at 1 °fH
Topping up to	PUROTAP profi 25

PUROTAP highpower 50 litres

Volöume	50 litres (4 x 12.5 l)
Capacity	80 m ³ at 1 °dH 140 m ³ at 1 °fH
Topping up to	PUROTAP profi 50

**«PUROTAP highpower
The proven resin with a high capacity for filling and topping up conventional heating systems.»**

NEW:
PREMIUM
RESIN WITH
ANION RESIN
SURPLUS

PUROTAP® nexion resin

The premium resin for the new generation of heating systems

The next generation of building services systems relies to a greater extent on low operating temperatures and high water capacities for thermal stores/DHW cylinders. Fill water from the tap always contains a certain amount of free, dissolved carbon dioxide. The lower the operating temperature and the greater the water volume, the more this carbon dioxide can lead to corrosion. PUROTAP® nexion removes this carbon dioxide during demineralisation – for faultless beginnings of the next generation of building services systems.

PUROTAP® nexion is an ion exchange resin for demineralising central heating fill water with a defined surplus of anion resin. The unique vacuum packaging and regular quality monitoring thereby guarantee the capacity to remove free carbon dioxide from the fill water during demineralisation.



Main applications

Particularly suitable for filling, topping up and the desalination of

- heat pump systems
- systems with large water tanks for technical purposes
- ice stores
- systems incorporating the new generation of micro CHP unit, such as fuel cells and Stirling engines

Benefits

- Premium quality with an **anion resin surplus**
- pH control (removes carbon dioxide from the fill water during demineralisation)
- to SWKI/VDI
- Certified quality
- vacuum-packed

«PUROTAP nexion - The premium resin to meet the exacting demands of the new generation of building services systems. 2-component mixed bed resin with high proportion of anion resin for reliable full desalination and a controlled pH value.»

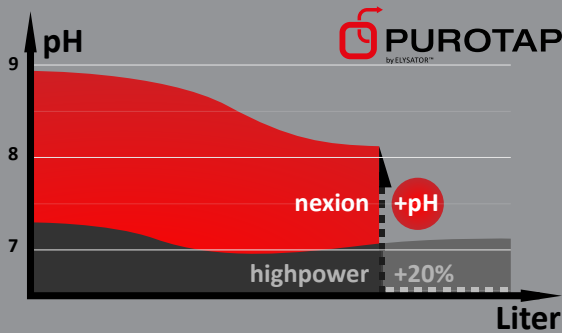
PUROTAP nexion 12.5 litres

Volume 12.5 litres
Capacity 16.5 m³ at 1 °dH
30 m³ at 1 °fH
Topping up to PUROTAP easy
PUROTAP compenso 12

PUROTAP nexion 25 litres

Volume 2 x 12.5 litres
Capacity 33 m³ at 1 °dH
60 m³ at 1 °fH
Topping up to PUROTAP profi 25
PUROTAP profi 50 (2 x)

	PUROTAP® highpower	PUROTAP® nexion
High capacity	✓	○
pH-regulating (removes free carbon dioxide)	○	✓
pH-neutral (removes bound carbon dioxide)	✓	✓
SWKI BT 102-01 conforms to VDI requirements	✓	✓
Certified quality	✓	✓



nexion: higher pH value, lower litre capacity
High Power: lower pH value, greater litre capacity. Pay attention to the system-specific self-alkalisation.