



WATER FILTER FOR EVERY OCCASION

ABSOLUTELY PURE DRINKING WATER
IS NOW AVAILABLE AT ANY TIME.



MADE IN GERMANY

VERDANIUM®
HOME

A small device with big impact

- Fastest water production in its class
- Ideal for multiperson households
- Compact design
- High volume flow of ultra-pure water
- Rinsing water recovery
- Easy maintenance via Push & Click filter change method
- Easy installation
- Long durability



Safety thanks to ultra-pure water

Up to 99 % of all harmful foreign substances in your water are filtered out. Only ultra-pure water remains. With the Verdanium Home, drinking water no longer needs to be boiled. Water contaminated by external influences is always treated to produce safe drinking water.



Unlimited access

At only 0.7 cents/litre, you have unlimited ultra-pure water at your disposal at any time. Drinks and food taste better, and ultra-pure water is the ideal thirst quencher. Also, you can use your ultra-pure water for other household applications.



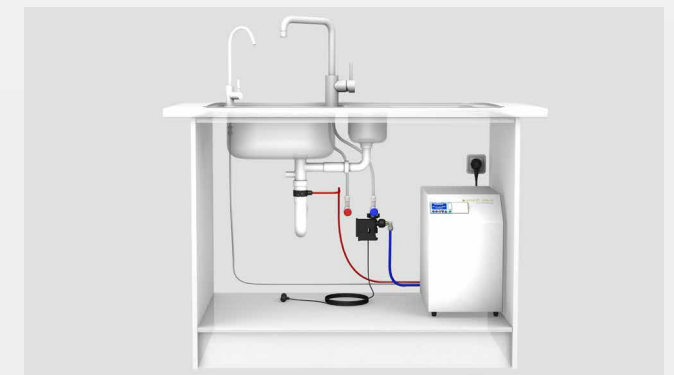
Size comparison

During development, we made sure that the Verdanium Home does not exceed the space requirements of a standard mineral water crate with 12 bottles of 0.75 litres each.



Highest quality

The Verdanium Home takes reverse osmosis to a whole new level: compact, efficient, intelligent and equipped with the latest technology. Our **GreenOsmo®** Technology sets new standards for filtration quality, filtration consistency, wastewater and energy efficiency, and output volume.



Compact design

The compact design of the Verdanium Home with a total volume of only 30l allows installation even in small kitchens. All connections are offset inside to save even more space in the kitchen cabinet.



No more bottles to carry

With the Verdanium Home, you no longer need to buy any drinking water. Water crates and plastic packaging must no longer be transported, stored, and disposed of inconveniently.

Separate stainless-steel tap

Use the ultra-pure water from the Verdanium Home for drinking and cooking. A separate stainless-steel tap supplies always pure drinking water. The Verdanium Home's ultra-pure water keeps the taps clean and limescale-free.

Verdanium Home – the perfect water filter

The Verdanium Home produces the purest and freshest drinking water you have ever enjoyed. Carefully selected high-quality components filter out up to 99% of all unwanted substances from the water. It delivers up to 2.3 l* of the purest drinking water per minute and is unparalleled in its size to performance ratio. Other systems are often double or triple the size for such ultra-pure water production. The Verdanium Home goes far beyond the standard and is ready for any water situation.

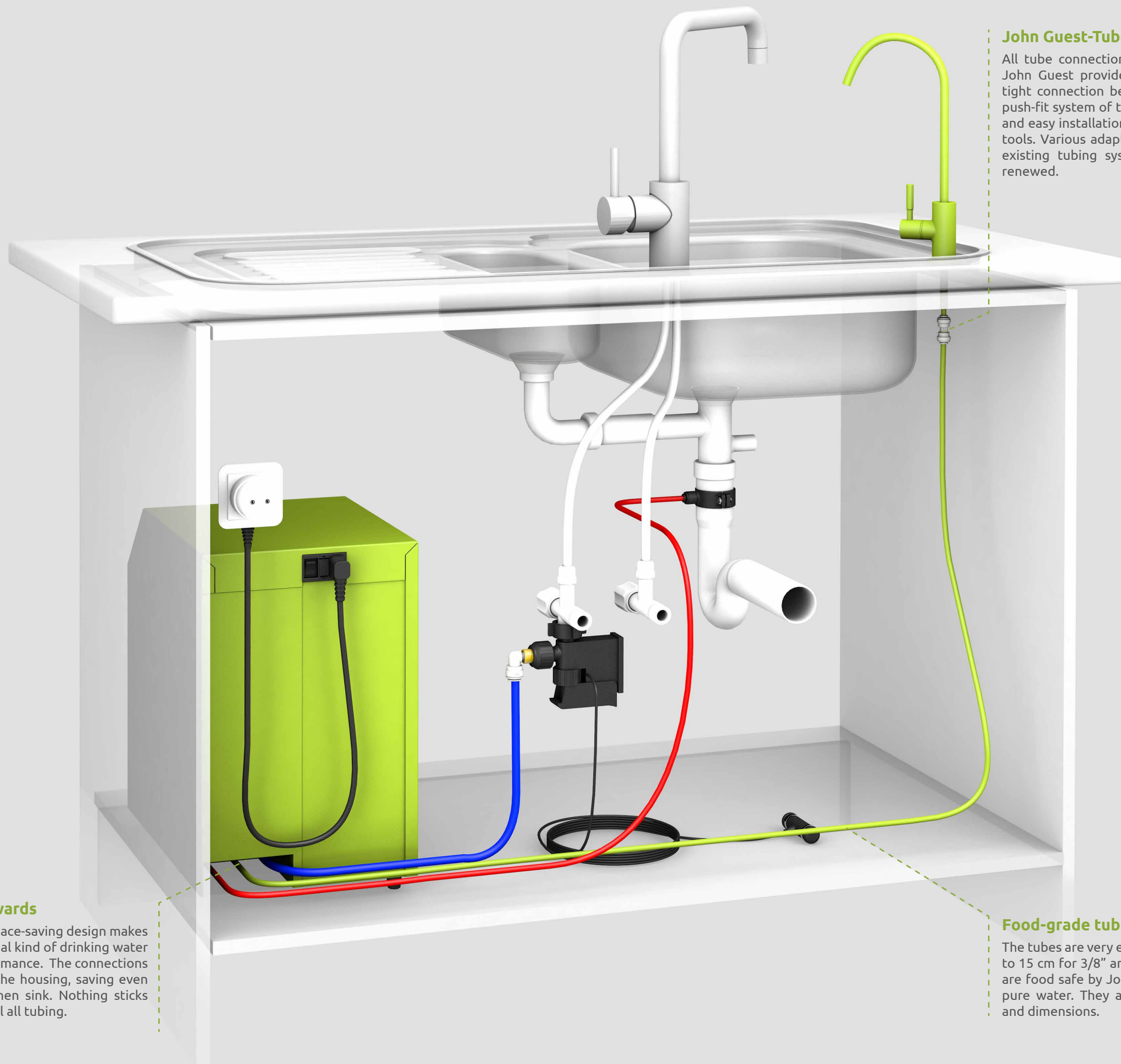
Intelligent Safety System

A Hydro-Stopper is standard equipment next to the Verdanium Home. The intelligent safety system monitors the kitchen cabinet under the sink. Should water leak, the Hydro-Stopper automatically shuts off the water supply at the corner valve.

Verdanium Home control unit

The Verdanium Home is managed via its own control unit, which is used to start-up the Verdanium Home and display the systems status. The software version can be updated via a special interface on the control unit.

* Depending on the inlet water temperature..



John Guest-Tube Connections

All tube connections and quick couplings made by John Guest provide a permanent, safe and water-tight connection between tube and connector. The push-fit system of the tube connections allows quick and easy installation without the need for additional tools. Various adapter and conversion options allow existing tubing systems to be easily modified or renewed.

Connections offset inwards

A functional, modern, and space-saving design makes the Verdanium Home a special kind of drinking water filter in addition to its performance. The connections are offset to the inside of the housing, saving even more space under the kitchen sink. Nothing sticks out, and you can easily install all tubing.

Food-grade tubing

The tubes are very easy to install and allow radii of up to 15 cm for 3/8" and 10 cm for 1/4" tubes. All tubes are food safe by John Guest and approved for ultra-pure water. They are available in different colours and dimensions.



The history of reverse osmosis

Reverse osmosis (a membrane process) has been a well-known principle for decades and was already used by NASA for the Apollo missions in the late 1960s. With the help of reverse osmosis, part of the drinking water was recovered from the urine of the astronauts. The reverse osmosis process saved up to 60% drinking water on board the Apollo missions.

Still today, NASA uses reverse osmosis for drinking water treatment for its astronauts during missions on the international space station ISS.

WITH OUR SYSTEM YOU CAN USE THIS STATE-OF-THE-ART TECHNOLOGY FOR YOUR HOUSEHOLD.

Further development of reverse osmosis

During the development of the **GreenOsmo®** Technology, VISION AQUA primarily focused on four factors. **GreenOsmo®** stands for outstanding drinking water quality, with remarkably high efficiency, low water consumption and high production volume.

Our **GreenOsmo®** Technology currently achieves an energy efficiency of 1.3 watts per litre of ultra-pure water obtained. The ultra-pure water to wastewater ratio is 1: 0.8, meaning that you only require 1.8 litres of raw water for one litre of the purest drinking water. The integrated rinsing water recovery system also ensures that part of the rinsing water is returned to the filtration process, saving a significant amount of raw water.

The sophisticated rinsing and control process developed by VISION AQUA increases drinking water production by approx. 30% and reduces energy consumption by approx. 50% compared to conventional systems.

Filtering of harmful substances from drinking water

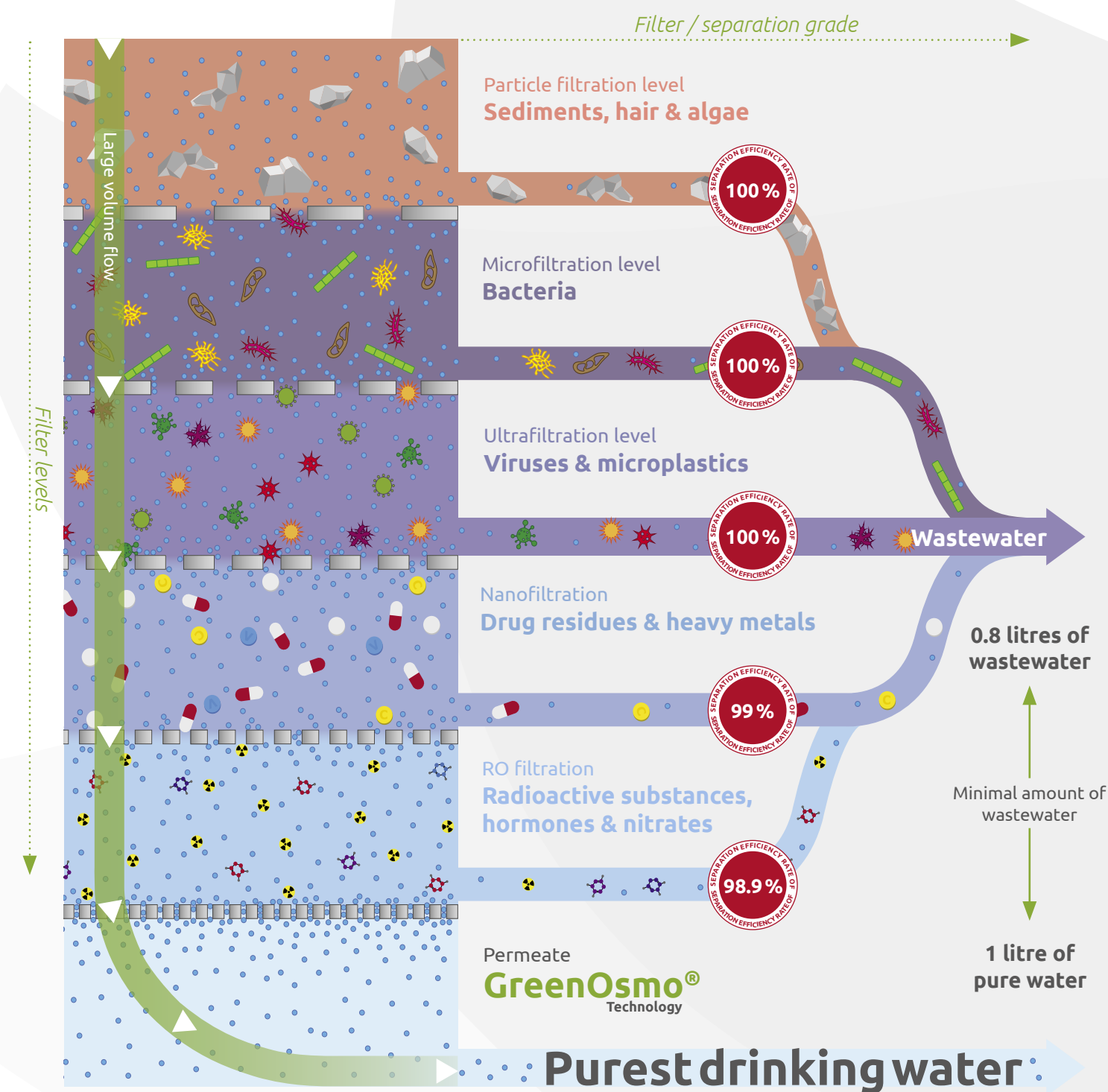
Our tap water is exposed to environmental influences daily and can, therefore, be heavily polluted. Viruses, bacteria, nitrates, drug residues, radioactive substances and hormones are just a few of the substances that can be found in drinking water.

By using our **GreenOsmo®** Technology, we can filter up to 99% of all harmful pollutants out of the water using the most modern technology and provide you with drinking water in its purest form.



The GreenOsmo® principle: pollutants out - pure water remains

The following overview shows you the individual filter levels and respective separation rates of potential substances in your tap water. With its **GreenOsmo®** Technology, the Verdanium Home can produce pure drinking water, which in its purity and quality is incomparable to any other drinking water.



A worthwhile investment

Thanks to the savings, the purchase of a Verdanium Home pays for itself very quickly. You also enjoy having made a valuable contribution to protecting our environment. The most essential, direct and positive consequences for our environment are summarized here for you:



Bottled water Environmental impact

- 3,000 litres of mineral water / year
- 2,000 plastic bottles / year
- Dragging 330 boxes / year
- 1,000 € costs / year
- 1 ton of CO₂ / year
- 735 litres of crude oil / year

(Sample calculation, family of four)



Verdanium Home Environmental benefits

- 0.7 cents / litre of drinking water from day one
- 2,000 fewer plastic bottles / year
- No transporting and dragging of boxes
- Pollutant-free water
- Always pure drinking water at home
- No limescale deposits
- Saving of dishwashing and cleaning detergents



Rinsing water recovery

An important aspect during the development of the Verdanium Home was the issue of sustainability. In addition to the compact design and the components selected to reach ultra-pure water to wastewater ratio of 1:08, the integrated rinse water recovery is an essential component of the Verdanium Home. This technology adds back part of the separated wastewater from the RO membranes to the filtration process as rinse water. This design reduces your water consumption and costs enormously.

Safe and straightforward filter change

The pre-filters are the preliminary stage before the reverse osmosis membranes and are specifically designed to protect them. Therefore, it is necessary to change the pre-filters regularly. The maintenance effort has been reduced to an absolute minimum and won't take longer than 10 minutes. Use a T5 Torx screwdriver to open the housing on the filter side of the Verdanium Home to change the filters.

The filter cartridges have to withstand pressure peaks of up to 50 bar, which can occur in water pipes, without bursting or even jumping out of the cartridge head. The VISION AQUA standard filter cartridges are sealed using a friction welding process which achieves maximum strength.

The filter cartridge and the filter head are connected using a bayonet lock. Under pressure, the cartridge locks into the bayonet lock more firmly and makes it almost impossible to loosen or open the connection. Two mechanical valves in the filter heads close the water inlet and outlet when changing the filter. As a result, water cannot run out of the system in an uncontrolled manner and cause damage.

Besides, the replacement filter cartridges have their build-in seals, which do not have to be laboriously cleaned, checked or replaced when changing the filter.



Technical data Verdanium Home	
Dimensions	Width: 248 mm, height: 397 mm, depth: 374 mm
Weight	15,1 kg (without accessories)
Temperature	Minimum 4° C (39° F) to maximum 38° C (100° F)
Operating water pressure	Minimum 1.4 bar (20 psi) to maximum 5.5 bar (80 psi)
Ultra-pure water production	At 6° C inlet water temperature and 3.5 bar approx. 1.8l / min (up to 2.3l / min at higher temperatures)
Ultra-pure water to wastewater ratio	The ratio is 1: 0.8 depending on the extraction of ultra-pure water
Water connections	Water supply 3/8" JG coupling - wastewater 1/4" JG coupling - ultra-pure water 1/4" JG coupling
Power connection	230 VAC - 50 Hz – 180 VA – (110 VAC – 60 Hz optionally possible)
Replacement filter	
VA-Standard PP - sediment filter cartridge (pre-filter)	
VA-Standard GAC - Coconut husks-activated carbon granulate cartridge (post-filter)	
VA-Standard CTO - activated carbon block cartridge (post-filter) optional	



Find out more about our products and options.

VISION AQUA Technology GmbH
Dorfstr. 20
85298 Scheyern/Vieth
Germany

eMail: kontakt@visionaqua.de
Web: www.vision-aqua.de

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