



WORLD'S FIRST

... HEALTHY AND
SAFE DRINKING WATER
FOR THE WHOLE FAMILY

VERDANIUM®
MAX

THE INTEGRATIVE SOLUTION FOR YOUR KITCHEN

MADE IN  GERMANY

THE INTEGRATIVE SOLUTION FOR YOUR KITCHEN

Safe drinking water for the whole family

World innovation for standard kitchens

VISION AQUA's Verdanium MAX sets a new standard in drinking water treatment. The device is standardised and can be used in every apothecary cabinet in kitchen units worldwide. Thanks to GreenOsmo® Technology, it supplies the entire kitchen & household with absolutely pure drinking water. The Verdanium MAX can also be retro-fitted flexibly in existing kitchen cabinets.

Cold and hot drinking water

Use the ultra-pure water of the Verdanium MAX for drinking, rinsing and cooking. The separate stainless-steel faucet continuously supplies pure drinking water. With the connection to a boiling water tap, you get hot ultra-pure water at the push of a button. Thanks to the ultra-pure water of the Verdanium MAX, the taps remain clean and free of limescale deposits.

Steamer

The Verdanium MAX is perfect for steam ovens. Not only are valuable nutrients in the food preserved, but the taste is much more intense thanks to the pure water of the Verdanium MAX.

Coffee maker or fully automatic machine

The coffee experience becomes much more intense, because the purer and softer the water, the better you can enjoy the delicate aromas and fruity notes. The coffee maker or the fully automatic coffee machine are also protected against lime deposits. You don't need to use existing water filters.

Fridge

You can supply your refrigerator with pure drinking water for fresh iced water and ice cubes. There is no need to buy extra water filter cartridges for the fridge. Thanks to the filtration performance of the Verdanium MAX, the water pipes in your refrigerator cannot get blocked by limescale deposits. The ultra-pure water also creates beautiful, clear and slower melting ice cubes.

Dishwasher

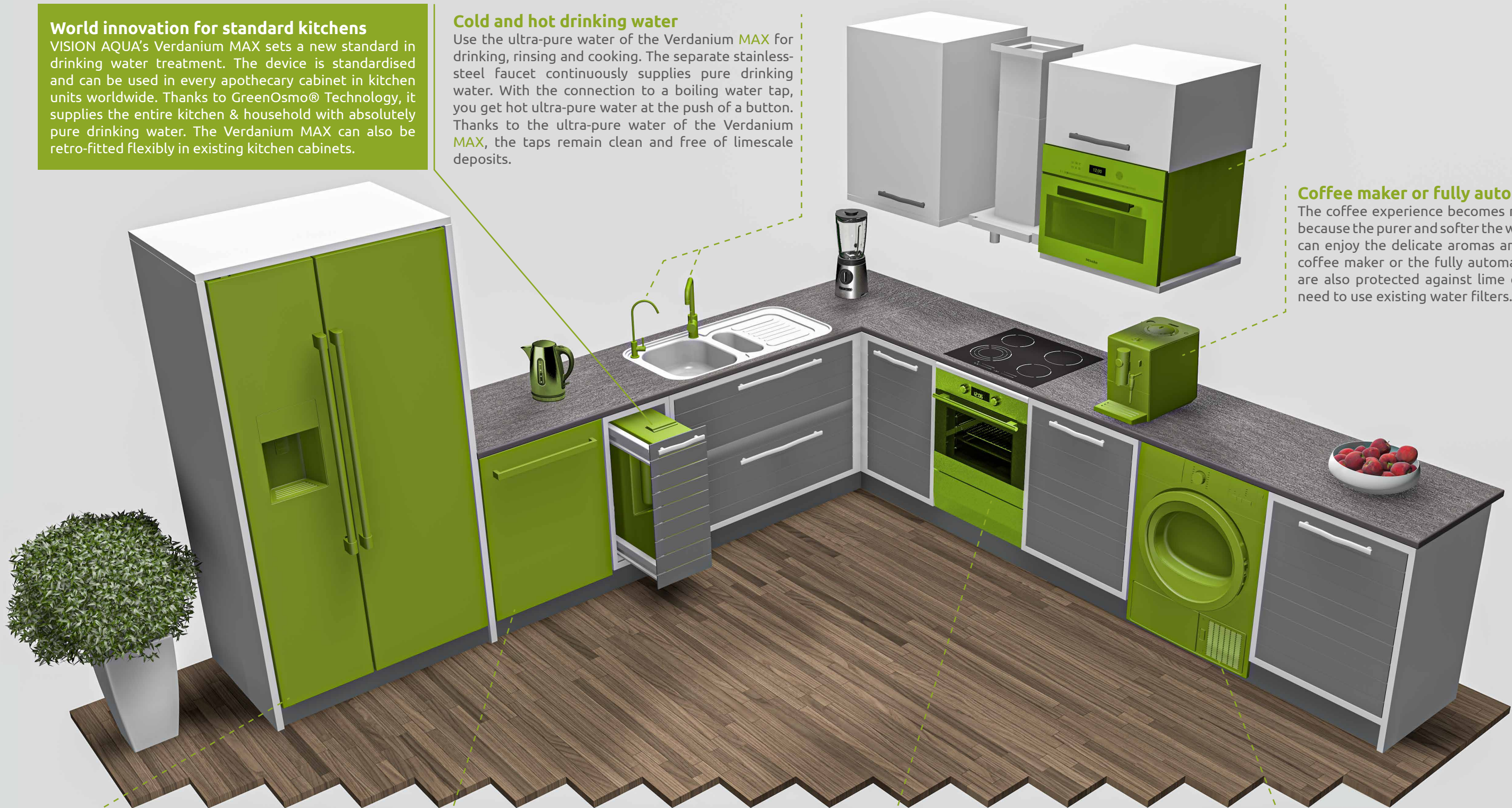
The cleaning effect of the ultra-pure water means that the use of rinse aid and softening salt is no longer necessary. Your dishes and glassware will shine like new after each wash. Your dishwasher will last longer without any lime or other deposits. Also, the energy consumption remains the same over times, as no lime deposits on the heating coil.

Steam oven

The Verdanium MAX can be connected directly to a steam oven with a fixed water connection. Of course, additional filters are also no longer required. Enjoy extra crispy home-made bread, chicken or great tasting vegetables.

Washing machine

By using the ultra-pure water of the Verdanium MAX for the washing machine, you can save between 50% and 75% detergent and completely do without fabric softener. Lime deposits no longer settle in the washing machine. The amount of maintenance is reduced and the service life of the washing machine is increased considerably.





Pure drinking water available at all times

The Verdanium **MAX** is the ultimate water filter. It ensures healthy and safe drinking water for the whole family. Drinking water is available at any time with the same consistently high-quality.



Safety thanks to ultra-pure water

Up to 99% of all harmful foreign substances in the water are filtered out, and only ultra-pure water remains. With the Verdanium **MAX**, you never have to boil your drinking water again and water contaminated by external influences is filtered into safe drinking water



Stop buying drinking water

You don't have to buy bottled drinking water anymore and transport, store, and recycle plastic packaging.



Ultra-pure water for your household appliances

All water-consuming household appliances benefit from the ultra-pure water of the Verdanium **MAX**, as they are interconnected via a sophisticated distribution system.



Household appliances last longer

With the Verdanium **MAX**, household appliances always have ultra-pure water available. Lime deposits are no longer a problem. The results are better cleaning, less maintenance, and a longer lifespan.



Save detergents and cleaning agents

With the Verdanium **MAX**, the use of detergents and cleaning agents can be reduced to a considerable extent, thus protecting the environment and save you money.

A worthwhile investment

Thanks to the savings, the purchase of a Verdanium **MAX** pays for itself very quickly. You also enjoy having made a valuable contribution to protecting the environment. The most essential, direct and positive consequences for the 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

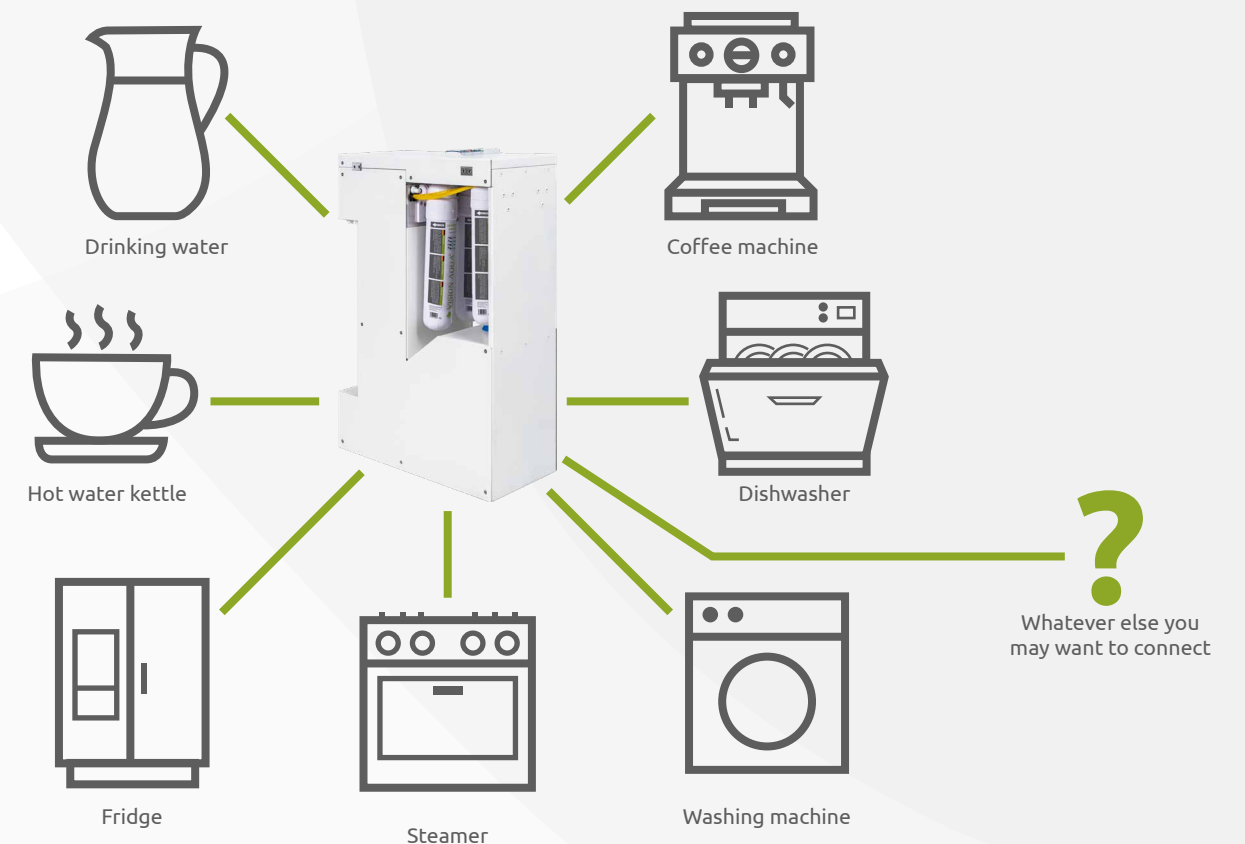
(Sample calculation, family of four)



Verdanium **MAX** 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
- Maximum protection for water-consuming kitchen appliances
- No limescale deposits
- Save dishwashing and cleaning detergents

The ultra-pure water source for the whole kitchen





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 of 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.

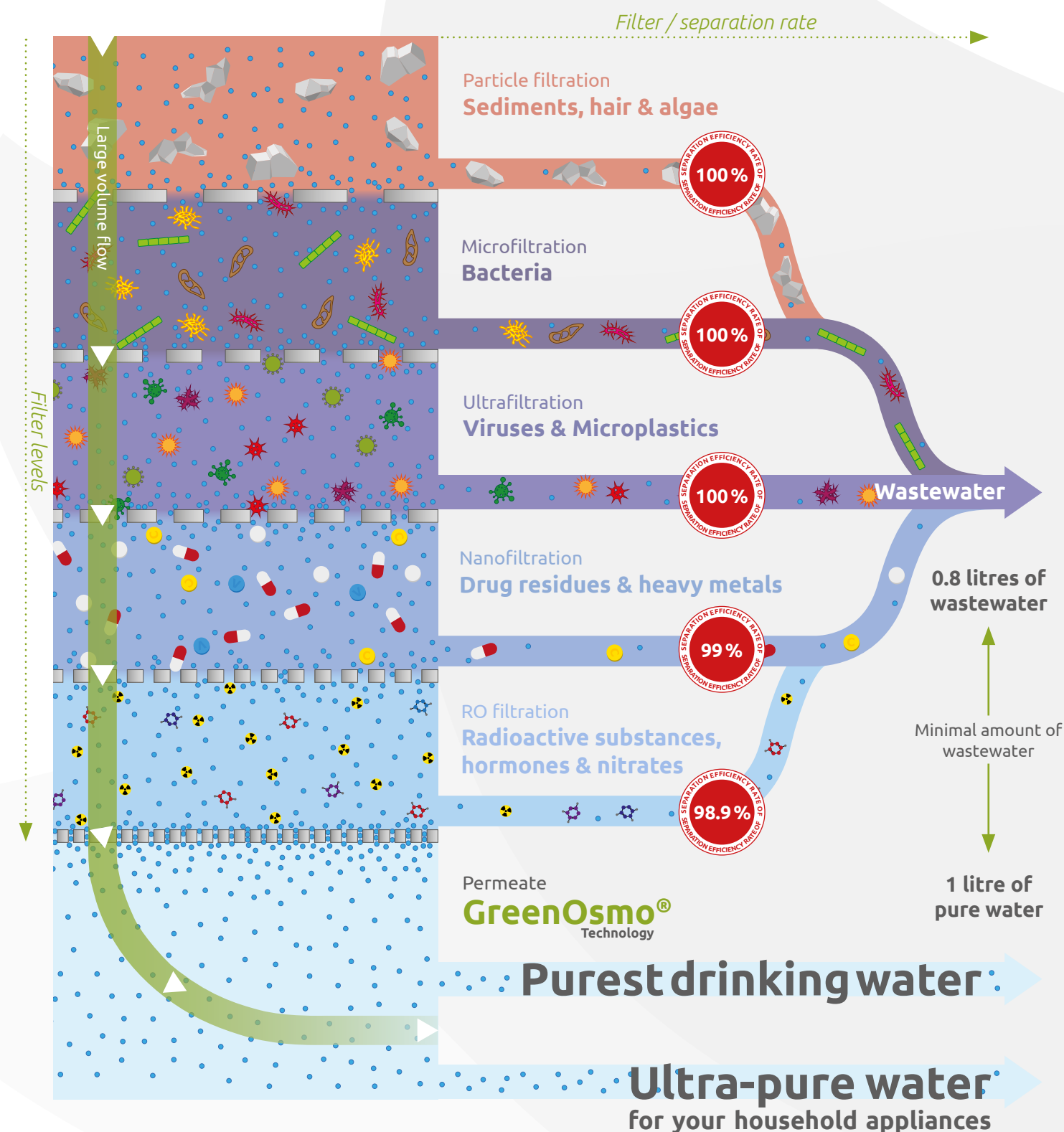
Filtering of harmful substances from drinking water

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.

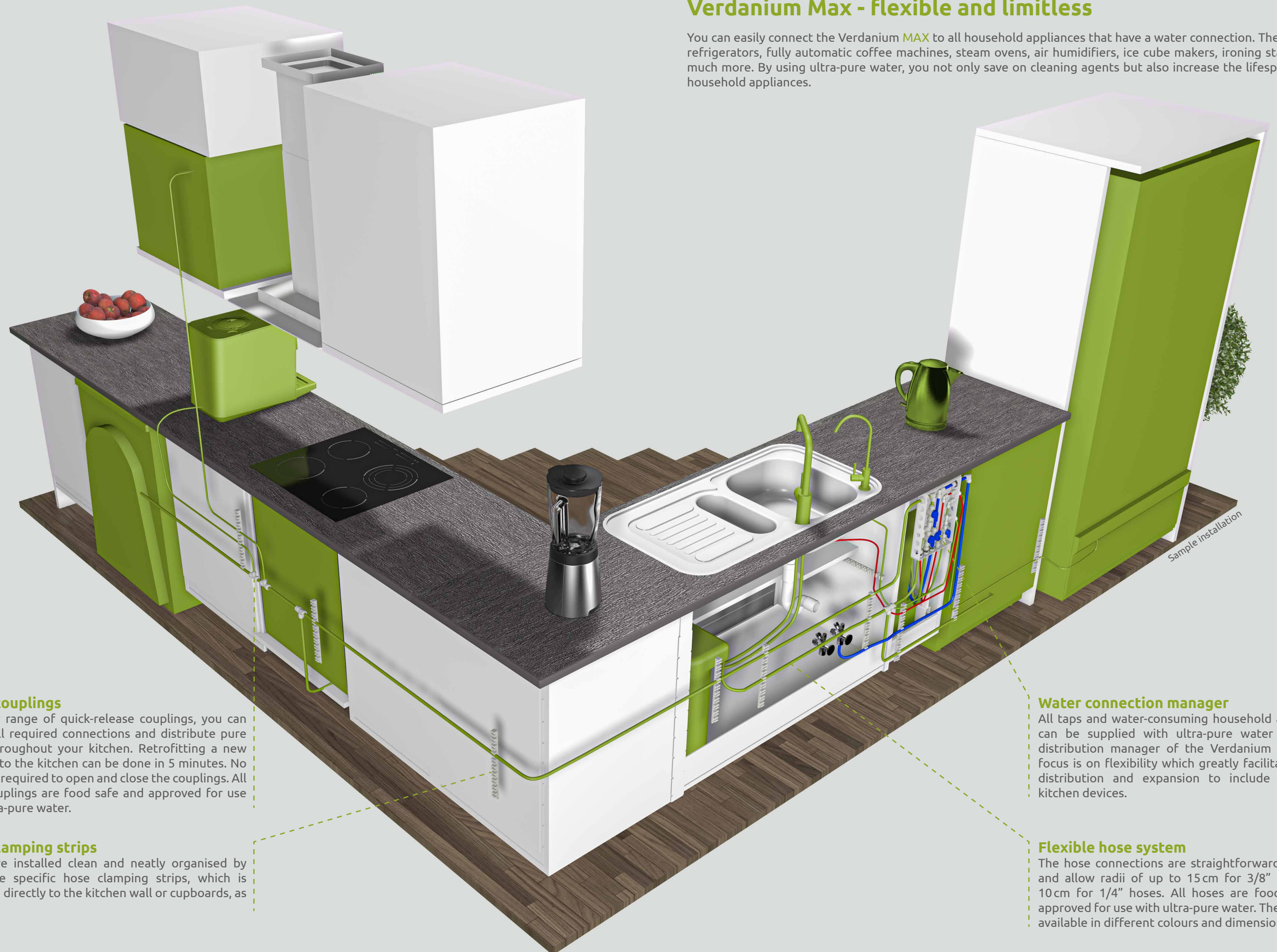
The GreenOsmo® principle: pollutants out - pure water remains

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 **MAX** can produce pure drinking water, which in its purity and quality is incomparable to any other drinking water.



Verdanium Max - flexible and limitless

You can easily connect the Verdanium **MAX** to all household appliances that have a water connection. These include refrigerators, fully automatic coffee machines, steam ovens, air humidifiers, ice cube makers, ironing stations and much more. By using ultra-pure water, you not only save on cleaning agents but also increase the lifespan of your household appliances.



Quick couplings

With our range of quick-release couplings, you can realize all required connections and distribute pure water throughout your kitchen. Retrofitting a new device into the kitchen can be done in 5 minutes. No tools are required to open and close the couplings. All quick couplings are food safe and approved for use with ultra-pure water.

Hose clamping strips

Hoses are installed clean and neatly organised by using the specific hose clamping strips, which is mounted directly to the kitchen wall or cupboards, as required.

Water connection manager

All taps and water-consuming household appliances can be supplied with ultra-pure water from the distribution manager of the Verdanium **MAX**. The focus is on flexibility which greatly facilitates water distribution and expansion to include additional kitchen devices.

Flexible hose system

The hose connections are straightforward to install and allow radii of up to 15cm for 3/8" hoses and 10cm for 1/4" hoses. All hoses are food-safe and approved for use with ultra-pure water. The hoses are available in different colours and dimensions.



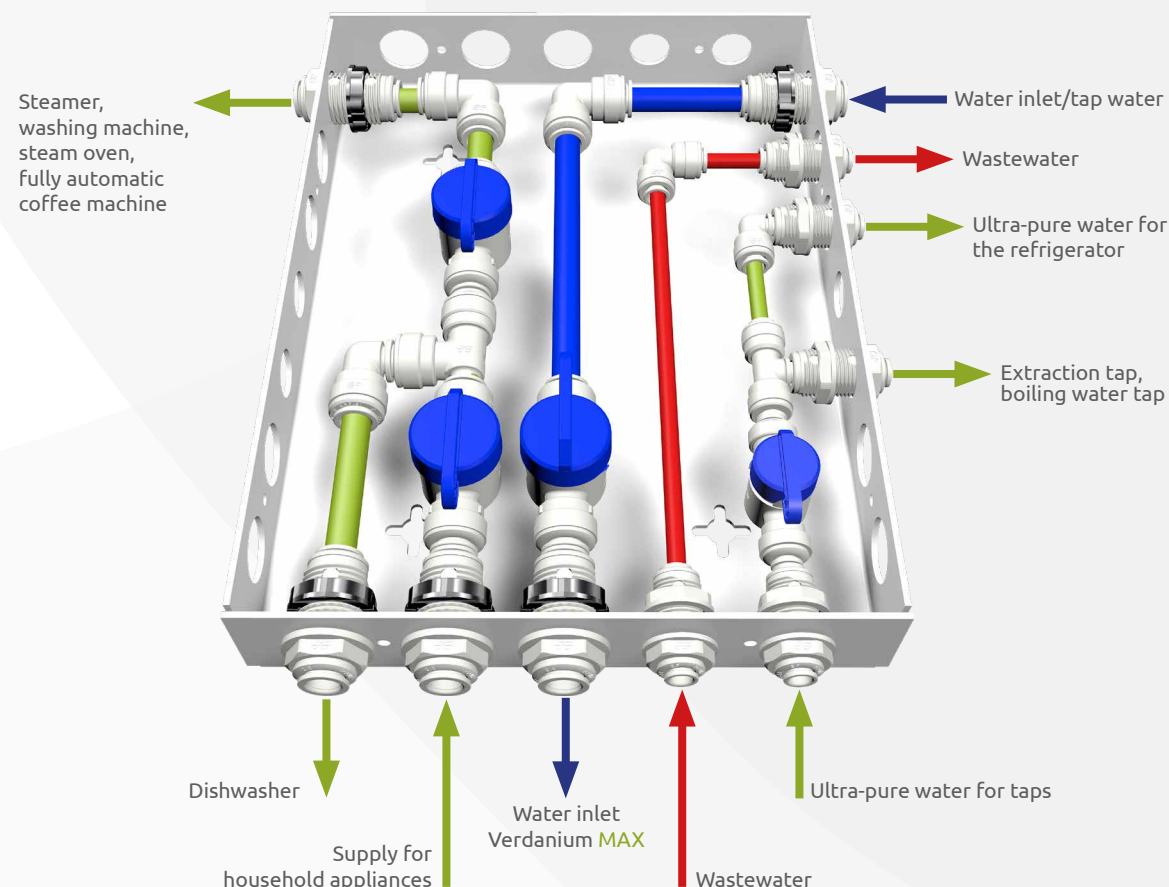
A small device with a significant impact

The Verdanium **MAX** impresses not only with its unique installation in standard kitchen unit/apothecary cabinets, it also supplies all water consuming household appliances with absolutely pure water. This is achieved by installing a small distribution box invisibly at the rear wall of the apothecary cabinet.

Using the unique distribution system developed by VISION AQUA, household appliances such as the washing machine, dishwasher, refrigerator, steam cooker and many other water-consuming devices can be supplied with ultra-pure water at the same time.

Shut-off valves inside the distribution manager allow quickly to close the water supply to connected devices without having to tediously disconnect the installed tubes.

When planning the kitchen, you should consider how many household appliances need a supply of ultra-pure water from the Verdanium **MAX** to be able to connect all water-consuming household appliances to the Verdanium **MAX** quickly and easily.



Example installation - Depending on each kitchen requirement, the distribution box is freely configurable and can be outfitted as required.

Safe and straightforward filter change

Changing the filter has never been so easy and quick as with the Verdanium **MAX**. The pre- and post-filters are easily reachable without opening the housing of the Verdanium **MAX**. A filter change can be done very quickly without the need for additional tools.

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.



Additional pressure storage tanks

The Verdanium **MAX** has a 3-litre pressure storage tank already installed. If multiple household appliances need larger amounts of water simultaneously, you can connect additional pressure storage tanks to the Verdanium **MAX**. You can easily install them in the base cabinet of the kitchen sink.



| Technical data Verdanium MAX | |
|--------------------------------------|---|
| Dimensions Weight | Width: 205 mm, height: 635 mm, depth: 460 mm 19 kg (without accessories) |
| Temperature Operating pressure | Minimum 4°C (39°F) to maximum 38°C (100°F) 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) |
| Pressure storage tank | Built-in with a capacity of approx. 3 l, further pressure storage tanks are optionally possible |

Replacement filter

- VA-Standard PP - sediment filter cartridge 10" (pre-filter)
- VA-Standard GAC - activated carbon granulate cartridge 10" (post-filter)
- VA standard CTO - activated carbon block cartridge 10" (post-filter) optional



Find out more about our products and options.

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