



Innovative technologies in drinking water processing

A healthy decision for you
and the environment



Filter your water
before drinking it,
otherwise your body
has to do it for you!



Drinking water without a doubt Many consumers are unsettled

Do you feel the same way?

You open the tap and have doubts whether the drinking water quality really meets your requirements?

That is the reason why so much bottled water is bought at the discounter. The many negative reports about water contamination such as: „heavy metals, drug residues or hormone residues, microorganisms and microplastics in drinking water“ unsettle us. But buying plastic bottles is also not a satisfactory solution: plastic waste has a lasting impact on the environment and chemical plasticizers contained in plastic could get into our bodies when we drink.

AQUANEOvital is a tap water refinement system for sophisticated requirements which offers an uncomplicated solution to the problems mentioned above.

AQUANEOvital is equipped with a high-performance microfiltration system from CARBONIT®, one of the leading international manufacturers in this field. It doesn't just filter

- **Lead, copper, nickel and other heavy metals**
- **Chlorine**
- **Pesticides**
- **Bacteria, fungi / yeast and other microorganisms**
- **Drug residues and hormones**

but also

- **Trace elements*
(for example microplastics)**

*Substances whose detection is not carried out in the laboratories of the water suppliers.

The AQUANEOvital -System

Microbial protection and more
through advanced technologies
in drinking water purification



Simple - and extremely efficient

- Premium quality drinking water at all times through environmentally friendly drinking water filtration (no reverse osmosis!)
- Reliable retention of pollutants (evidenced by reliable certificates from various German universities and from TÜV)
- Effective protection against microorganisms
- Chemical-free limescale protection (Fluid Dynamic Technology) to protect the devices and the piping
- Powerful energization of the water
- Increase of the natural calcium and magnesium content of the water (Okinawa granules)
- AQUANEOvital is completely maintenance-free and works without electricity and without any added chemical substances
- Less expensive than bottled water
- No more dragging water crates
- High filtration capacity
- Simple filter change (no plumber required)
- Low space requirement
- No storage tank required
- Can also be used with low water pressure
- No power consumption
- Easy to retrofit in any kitchen
- Can be combined with the water dispensers from Quooker, Blanco, Selbach and Cornelius

Healthy
Drinking water

up to

99,9%
pollutant-free



Refinement instead of modification

The filter of the AQUANEOvital – system removes many undesirable substances from the water; dissolved minerals are retained in the drinking water and give it an optimal water quality.

Combination of water filtration and water enlivenment in one filter

High performance microfiltration (HM) optimized with EM ceramics

Pure nature! The filter medium is obtained from natural raw materials (coconut shells), which are gently converted into high-quality activated carbon. This type of activated carbon has a very large surface area and is therefore also used as an adsorbent in medicine.

From this high-quality material, optimised with EM ceramics (EM = Effective Microorganisms®), CARBONIT® manufactures the filter inserts of the HM cartridge for AQUA-NEO in Germany in a special sintering process.

Sintered activated carbon block filters differ fundamentally from table or jug filters. These improve the taste of the water, but they only remove pollutants to a small extent. They generally do not have an activated carbon block filter, but only a loose bed of activated carbon. Poured activated carbon jug filters have a smaller surface area and therefore inevitably a lower performance.

EM Ceramics

The EM ceramic is „baked“ into the activated carbon as a powder during the production of the HM filter. This creates a very large contact surface with the water. Together with the proven filter performance of the CARBONIT® NFP Premium filter technology, this results in ideal water filtration. A specially baked clay is used for the production of the EM ceramics. This clay contains organic material from plants that are millions of years old and are food for these microorganisms during the fermentation process that lasts several months.

EM-ceramics help to reduce the surface tension of water and the size of cluster structures. The condition of a natural and tasty water is restored.

Okinawa Granules

AQUANEOfital is also equipped with a mineralising cartridge (AM). The contents consist of original Okinawa granules. The granulate is extracted from fossilized corals at the coast of Okinawa under controlled and absolutely environmentally friendly conditions.

They are also used to produce food supplements in the form of powder, e.g. for muesli enrichment, or calcium tablets. In addition, the cartridge contains EM (Effective Microorganisms) pipes to improve the taste of the water.



A drinking water filter as it should be

The effectiveness of CARBONIT® filters has been confirmed by numerous German expert reports. Renowned institutes prove the thorough, chemical-free removal of unwanted substances.

The exact reduction values can be found in the certificates which you can download at www.aquaneo.eu

Parameter	Reduction	Expert
Lead*	more than 90 %	TÜV Umwelt
Copper*	more than 90 %	-
Bacteria Escherichia coli**, Enterococcus faecalis**, Staphylococcus aureus, Staphylococcus haemolyticus, Enterobacter cloacae, Pseudom. aeruginosa, Bacillus subtilis	more than 99,9 %	GFT / Uni Bielefeld
Fungi/yeasts Candida albicans, Rhodotorula mucilaginosa, Saccharomyces cerevisiae	more than 99,9 %	GFT / Uni Bielefeld
Other microorganisms Entam. coli, Giardia Lamblia, Cryptosporidium parvum, Hymenolepis nana, Schistosoma mansoni, Ascaris suum	more than 99,9 %	GFT / Uni Bielefeld
Chlorine*	more than 99 %	-
Chloroform*	more than 99,9 %	-
Lindan*	more than 99,8 %	tti Magdeburg GmbH / FH Magdeburg
DDT*	more than 99,8 %	-
Altrazin*	more than 99,8 %	-
Drug residues* Clofibric acid, ibuprofen, ketoprofen, carbamazepine, propiphenazone, diclofenac	more than 99,5 %	TU Berlin
Polar pesticides* Bentazone, 2,4 D, MCPA Dichlorprop., Mecoprop, p.p.'- DDA	more than 99,5%	TU Berlin

Reduction at 0.45 µm filter fineness

* Test with load over filter capacity of 10,000 liters

**Test with load over a useful life of 6 months

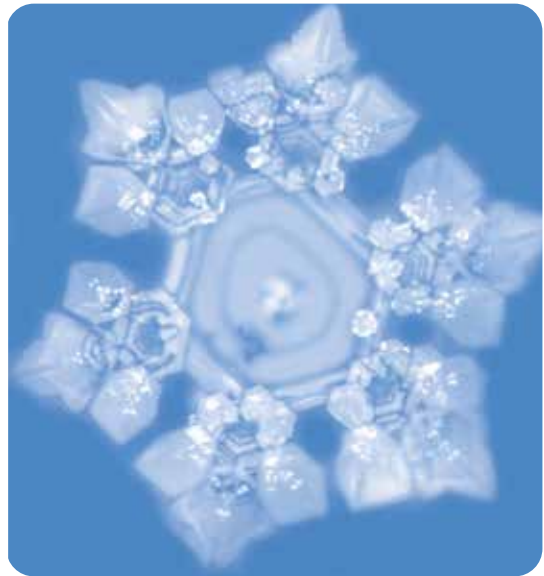


Service life of the filter

Filter change after 6 months. Basically, 10,000 litres of water may be filtered within 6 months. However, an earlier change may be necessary if the water flow is noticeably reduced. This is not a defect of the filter, but rather an indication of the increased occurrence of fine particles in unfiltered water.

Filtered drinking water Photographed on a frozen drop

Drinking water drops, filtered with HM high-performance microfiltration, were frozen and photographed under a microscope. For comparison: distilled water, deprived of energy, is rarely able to produce crystalline forms on frozen drops.



Comparative sample:
Drinking water
from Thun
examination
carried out by:
Ernst F. Braun -
CH-3664 Burgistein
May 2007 ©
Sample No.: 803



Chemical-free limescale protection, Energization

AQUANEOvital is additionally equipped with two special vortex chambers. In addition to chemical-free limescale protection, these chambers energise the water and improve its dissolving capacity. The AQUANEOvital system can therefore supply energy-rich, hexagonal water of high quality.

Chemical-free lime protection through fluid dynamic technology

The interior of the limescale protection element consists of immovable whirling bodies that support natural whirling processes due to their special geometry and material selection. The water flows through the system like a cascade over several levels and is mixed up considerably by this geometry. This means that the water molecules and their connected elements are swirled like in a natural stream and the calcium and carbon present in the water form as calcium carbonate in the aragonite structure.

Calcium carbonate in the aragonite structure no longer has any adhesive properties. The water is saturated with aragonite crystals as it exits the system. The tendency to deposit on surfaces has largely disappeared.





Protection against microorganisms through modern sterionuclide technology

The material of the water-whirler body consists of a special plastic (POM) in which hygiene-improving additives, namely organometallic molecules with a strong ionizing effect (sterionuclides), are incorporated. The electrical charge of the ions has a destructive effect on primitive organisms. This microbial defense not only causes bacterial germs to die, it also affects the smallest organisms such as algae and even viruses.

Because the sterionuclides are firmly anchored in the material of the water-whirler body, they have a permanent effect. This was confirmed by an expert opinion from the Institute for Medical Microbiology and Hospital Hygiene at the Philipps University Marburg, Prof. Dr. R. Mutters.

This system works completely maintenance-free!

A **hygiene expert opinion**, of the university hospital Giessen und Marburg GmbH and the Philipps University of Marburg, confirms the antimicrobial effectiveness of the water whirler:

The risk of germ formation in the residual water film on outlet valves of fittings is permanently reduced by the antimicrobial effect of the material used. The investigations show that water whirler with antibacterial properties, especially in stagnant water, have a very strong antimicrobial effect after a short time.

From a hygienic point of view, we recommend the use of whirlers especially in hygienically sensitive areas, such as in hospitals, old people's homes and nursing homes, doctors' surgeries or even in public facilities and kitchens.



Universitätsklinikum
Giessen und Marburg GmbH
Philipps-Universität Marburg

High quality water directly from the tap

Enjoy your drinking water directly from the tap in the future! With the proven filter inserts from CARBONIT® we combine high-tech filter quality with an innovative locking mechanism for fast, clean cartridge replacement.

CARBONIT® filter cartridges in the quick-change housing

Forget removing and screwing on filter housings for filter change. With our system you can change the filter cartridge in seconds. Simply remove the cartridge by turning it to the left and insert a new cartridge by turning it to the right. That's it! You do not need a housing key anymore. Since you do not come into contact with the inside of the filter cartridge, the exchange is absolutely hygienic.

Additional expansion stages

For example, you can use a sediment filter (SED) as a pre-filter before the AM cartridge as an expansion stage to increase the service life of the AM and HM cartridges.





Installation

No more filter housings that stand around on worktops! AQUANEOvital is conveniently installed under the sink.

Quickconnect

Connection between filter cartridge and filter head. Change your filter cartridge in seconds!



Leak control




Possible water leaks in the AQUANEOvital drinking water refinement system are prevented with a leak protection. On contact with water, a fabric tablet swells rapidly and reliably stops the flow of water.

Various Combination options


TÜV TÜV-tested
filter performance


A meta-assessment from
TÜV confirms all university
tests once again


ISO Vortex chambers
ISO 9001 certified

 EM-Ceramics
for energization

 Mineralisation
Okinawa granules

 Chemical-free lime
and germ protection

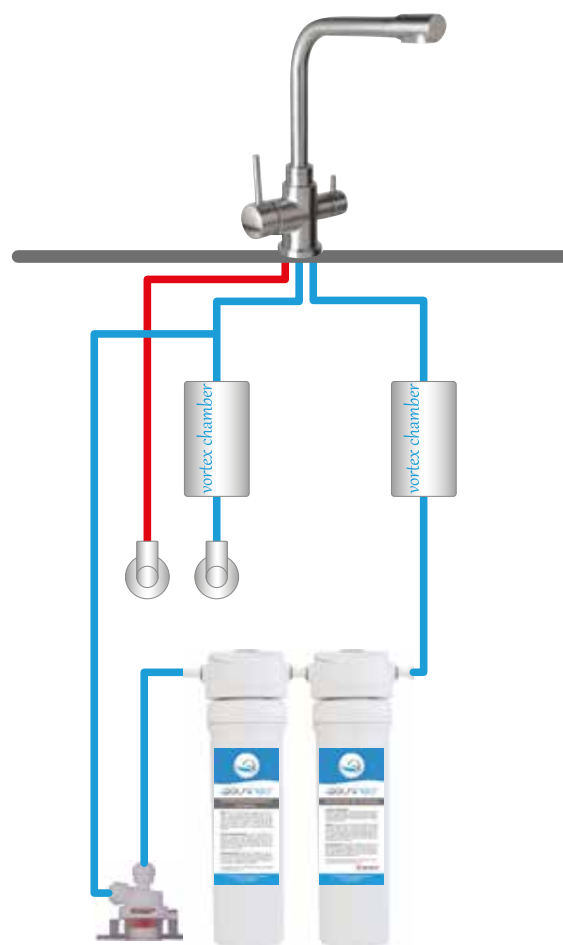
 Undersink
cooler

 Table-top
cooler

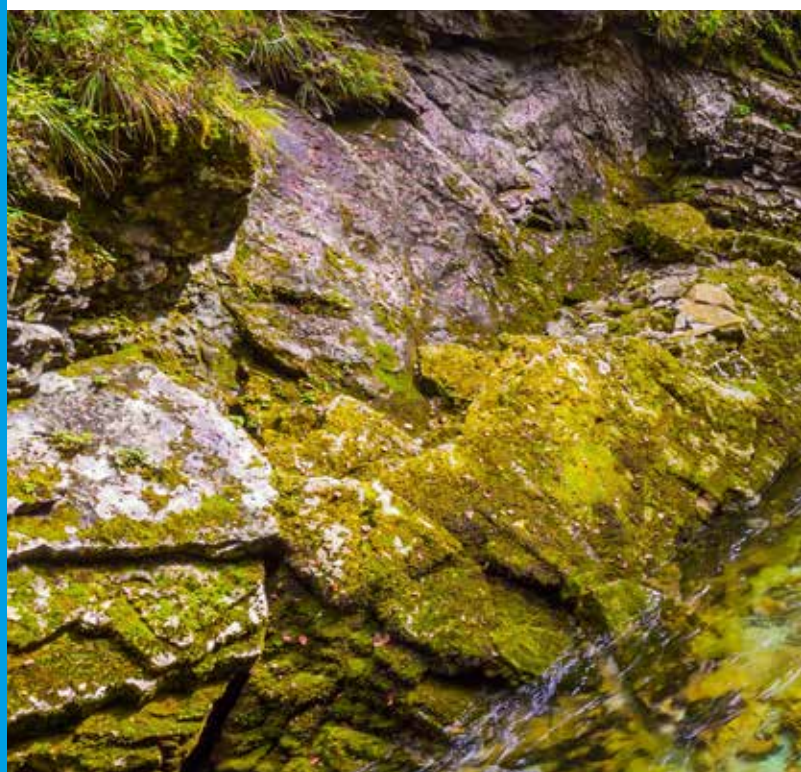
CO₂ Carbonator

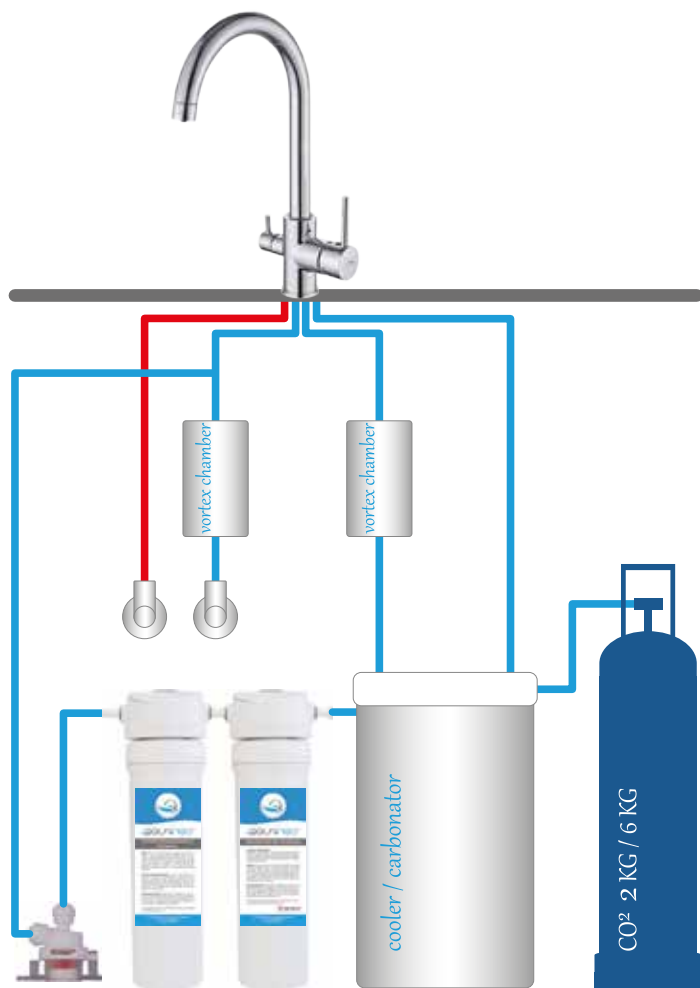
 Leak controller

 Made in Germany

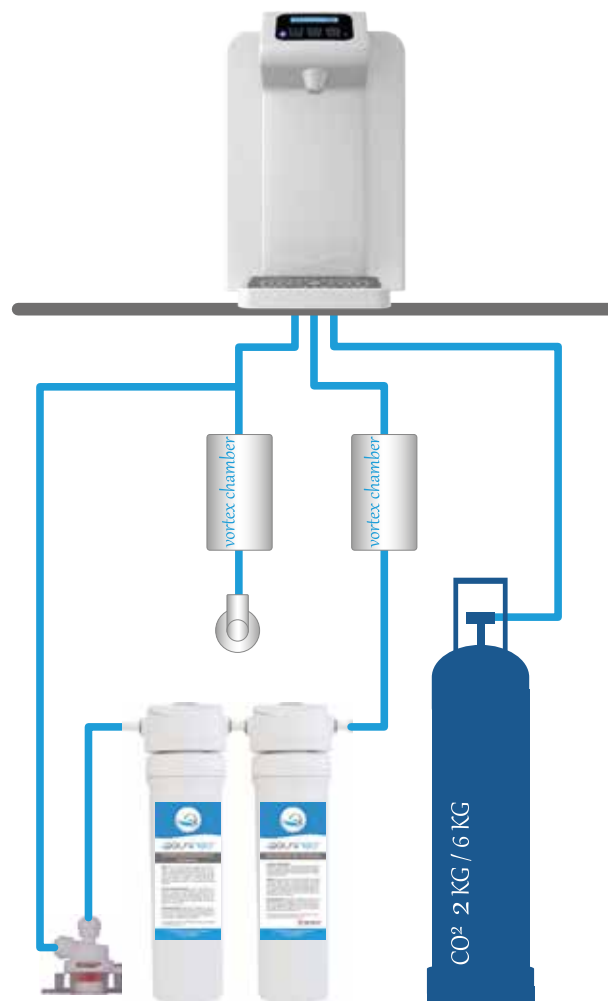


with 3-way faucet,
for non-carbonated water





with undersink cooler
and carbonator



with table-top cooler and carbonator
instead of a faucet





innovative - sustainable - convincing

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