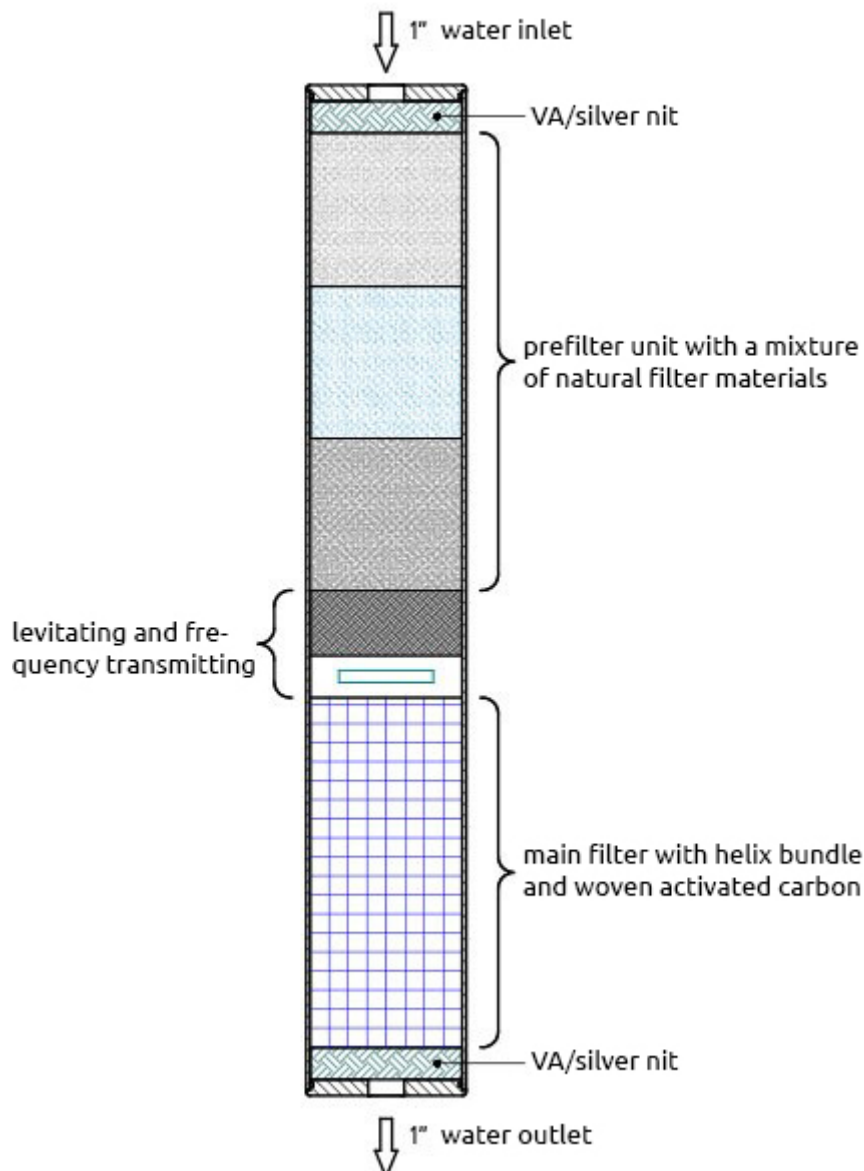


PCW – THE FILTER

What does the PCW-Filter filter out of the water?

- Organic hydrocarbons
- Microplastics, pesticides, herbicides, fungicides $\geq 20\mu\text{m}$
- Lime particles (conversion into finer molecular structure)
- Bacteria, germs and microorganisms
- Odour and taste disturbing substances (humic substances)
- Contamination, deposits from supply lines
- Drug residues and synthetic hormones
- heavy metals such as lead, arsenic, cadmium, mercury, aluminium, copper
- Substances dissolved in water such as boron, asbestos, chlorine
- Trihalomethanes, nitrate/nitrite, sulphates, phosphates
- Radioactive elements and their isotopes e.g. radium, strontium
- Detergent residues and plasticizers from plastics Phthalates



Advantages of the PCW-Filter:

PREFILTER:

- ✓ **Use of zeolite:**
It decomposes inorganic contaminants and absorbs heavy metals, ammonia, nitrate, turbidity, odours, dioxins. Zeolite prevents the multiplication of bacteria. The number of microbes in the filtered water is reduced. Zeolite is very suitable for drinking water purification.
- ✓ **Use of Birm® (manganese dioxide coated granules):**
Uses the property of manganese to oxidize by catalysis with iron. This process reduces the iron content in the water.
- ✓ **Use of activated carbon:**
The large inner surface absorbs particles dissolved in water. The carbon contained also acts as an oxidizing agent. This makes it possible to remove ozone and chlorine from drinking water.

MAIN FILTER:

- ✓ **Use of woven activated carbon:**
100 times more effective than activated carbon granulate due to the woven structure. Very high adsorption and desorption due to very high flow velocities, filter medium cannot be flushed out, channel formation as with granulate, powder or pressed carbon is not possible.)
- ✓ **Use of silver braiding as a consumer item:**
Oligodynamic effect, disinfection effect - potential gradient, silver is not detectable in filtrate
- ✓ **Use of stainless-steel Helix:**
An extreme turbulence takes place.
- ✓ **Use of rock crystals, amethyst and rosary:**
Due to the minerals added (water stones), the water can gain in stability and performs much better in a sensory test than water without mineralization. Damage to the water is thus ruled out.
- ✓ **Use of magnets:**
The permanent magnet is said to be able to change the surface structure of the hardening agents (lime) present in the water. Conversion of the limestone structure (calcite to aragonite). No direct contact of the magnet with the filtrate, as the magnet is welded into a tight stainless-steel shell. A damage of the water by the magnet is impossible!