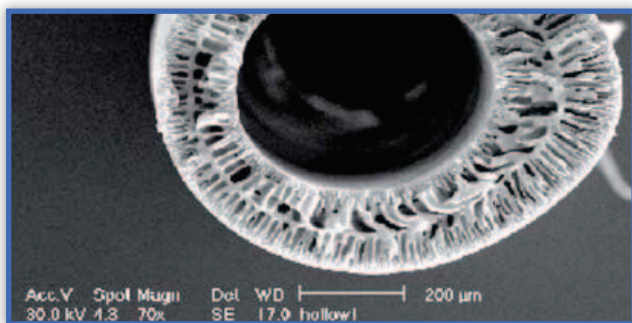


## Ultra Filtration (UF)



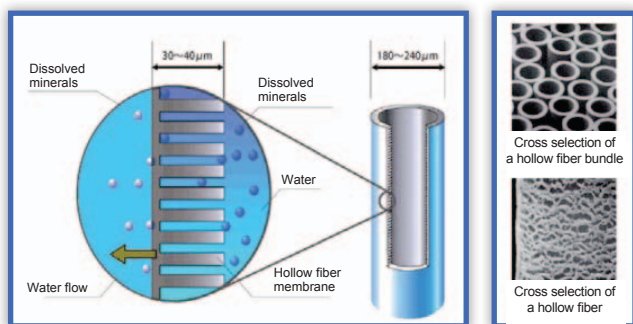
Ultra filtration is comparable to filtering coffee, but it is much finer, in other words „ultra“.

During ultra filtration the water is pressed with the pressure of the house water pipe through small plastic tubes. The fine pores, 0.01 - 0.1  $\mu\text{m}$ , serve as filters.

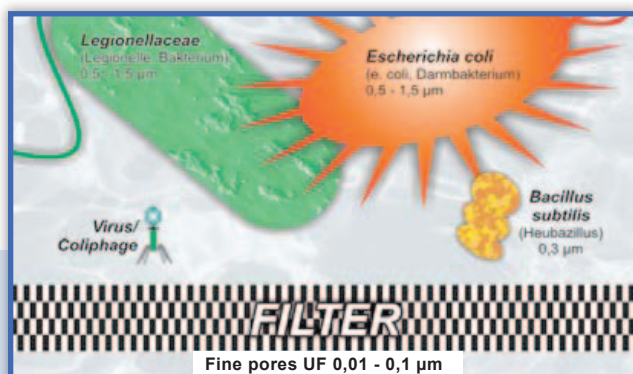


For comparison: Human hair has a diameter of about 50  $\mu\text{m}$  – this is 5000 times the thickness). 01  $\mu\text{m}$  correspond to 0.0001 mm.

Particles or impurities (e.g. bacteria) which are too big for the ultra filtration membrane, are kept on the surface of the membrane, whereas dissolved substances (minerals) can pass the membranes of the small filter tubes.



Bundling many of such filter tubes to a filter module the necessary surface is created to allow a sufficient water throughput for an ionizer.



The big advantage of ultra filtration over conventional filtering methods is the sterility of the filtered water. The pores of the UF membranes are so tiny that bacteria and even virus are too big to pass the UF membranes.

The combination of an active carbon block filter and ultra filtration (UF) is the perfect solution for purified and tasty drinking water.

