EUROWATER
PURE WATER TREATMENT

Nanofiltration unit

Application

- Reduction of organic matter, colour, sulphate, chloride, fluoride, bacteria and vira.
- Partial softening.

Designed for exactly your needs

EUROWATER offers a broad product range of fully automatic nanofiltration units – based on our well-known modular standard system, which makes it possible for us to combine an optimal plant for exactly your needs.

A variety of applications

Typical applications for a nanofiltration unit:

- Drinking water: Reduction of sulphate, chloride and fluoride.
- Drinking water: Partial softening without use of regeneration chemical.
- Industrial process water: Partial softening and reduction of colour and humus from surface water in e.g. the iron and metal industry and paper mills.

Advantages

Furthermore, use of nanofiltration is an advantage if

- you want a certain hardness, because a potential demineralization will make the water aggressive and lead to problems with corrosion in the supply network.

- you want a purposive reduction of unwanted components and reverse osmosis is to overshoot the mark. Where reverse osmosis requires a high-pressure pump, nanofiltration applies a lower pressure, typically under 7 bar, resulting in a lower energy consumption compared with a reverse osmosis plant with the same productivity.

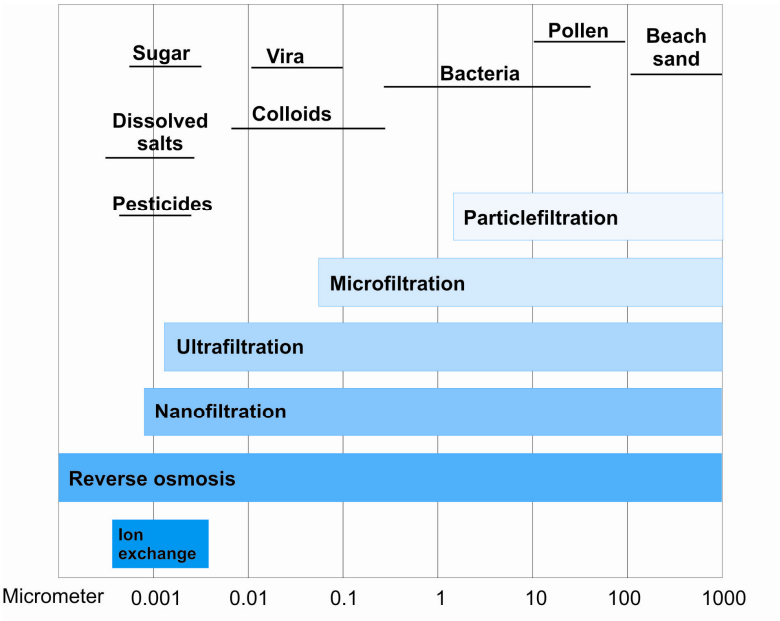
How does it work?

Nanofiltration (NF) is a membrane technology, which in its mode of operation and construction is very similar to reverse osmosis (RO). A nanofiltration membrane primarily restrains divalent ions and larger molecules. When it comes to the filtration process, a NF unit is placed between RO and UF – see the diagram below.

Swedish drinking water plant of 48 m^3/h. The plant consists of 2 x NF 03-24, prefilter and fully automatic cleaning unit. Application: softening of ground water.

More information

Contact your local EUROWATER sales and service office for more information.



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Our World is Water