

# Ultrafiltration systems AP-UF

UF ULTRAFILTRATION SYSTEMS REMOVE PARTICLES AS SMALL AS 0.01 MICRON, AND PROVIDE PURIFIED WATER WITH NO SUSPENDED SOLIDS, FREE OF MICROBIAL CONTAMINATION

Hollow fiber ultrafiltration membranes provide sterilized water where bacteria, parasites and viruses are safely removed — even with fluctuating water quality, as can occur after heavy rainfall. The quality of the filtrate remains consistently good! In potable water treatment, the filtration process is ideally used before final disinfection.

In regular cycles, back washes are performed to prevent blockages in the modules. Cleaning is supported by the addition of chemicals, where necessary, and adapted to the raw water quality present.



AP-UF system



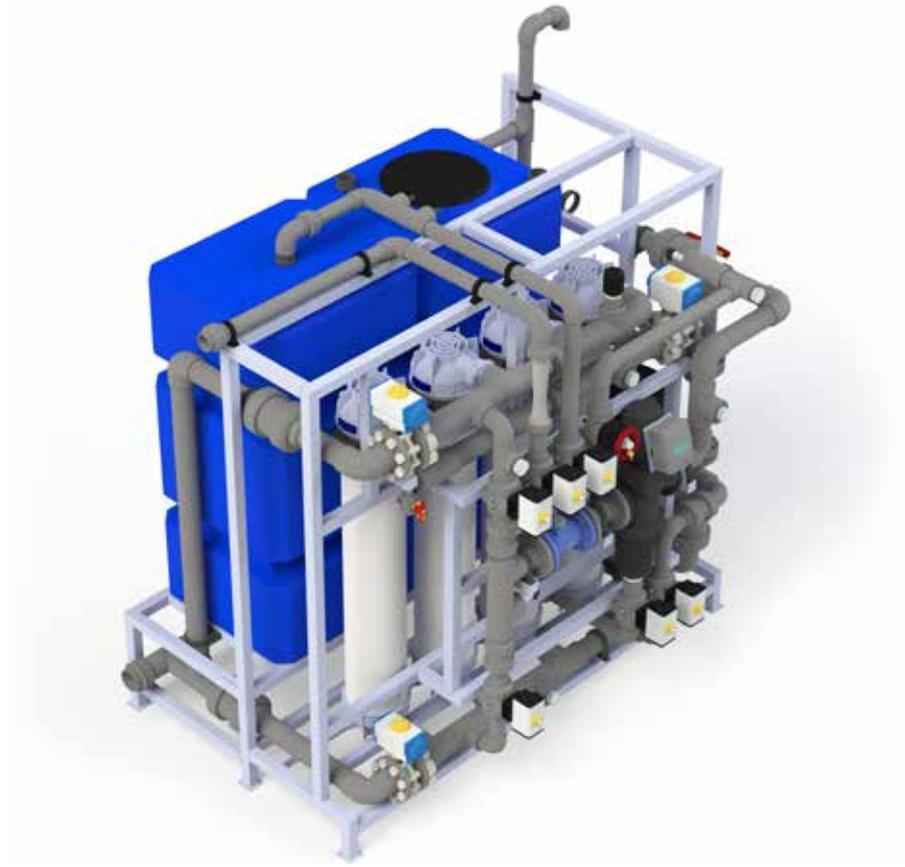
## BENEFITS

- High retention rates for bacteria (99.9999%) and viruses (99.99%)
- Low-cost operation
- Easy maintenance
- Space and energy saving design
- Fully automatic with PLC and user-friendly interface
- Electronical records of events

ULTRAFILTRATION SYSTEMS ARE APPLICABLE FOR USE WITH THE FOLLOWING FEED WATER PARAMETERS:

- pH range 3.0 ... 12.0
- Free chlorine < 1.2 mg/l
- Turbidity 0.5 ... 30 NTU
- DOC 0.5 ... 12 mg/l
- Suspended solids 50 mg/l





### Standard features of AP-UF\*

| MODEL                                  | AP-UF 5000             | AP-UF 20000 |
|--|------------------------|-------------|
| Filtration capacity, m <sup>3</sup> /h | 2-6                    | 12-25       |
| Membrane Quantity                      | 1                      | 4           |
| Membrane surface, m <sup>2</sup>       | 60                     | 4 × 60      |
| Membrane material                      | Modified PES           |             |
| Nominal pore size, μm                  | 0.02                   |             |
| MWCO, kD                               | 100-150                |             |
| Fiber OD/ID                            | 4.0/0.9 mm             |             |
| Power Supply                           | three-phase 400V, 50Hz |             |

\* Filter performance depends on the water quality

# GENERAL INFORMATION

The **ultrafiltration systems** by Aquaphor Professional are manufactured by "Aquaphor International OÜ" (Estonia, EU). The RO system is designed to **remove the organic impurities** and **reduce the total salt content** of water from municipal and local water supply systems (borehole, brackish or sea water) in accordance with the requirements.

Materials used in ultrafiltration systems are **safe, non-toxic and do not release any dangerous substances into the water**. The ultrafiltration system is the most efficient and safe device for desalination purposes.

**NOTE** The ultrafiltration system is not designed to solve all problems related to water treatment. For proper operation it may require additional water pre-treatment.