

AQUAPHOR

PROFESSIONAL

Industrial water treatment solutions

Reliable, high-quality systems
for a variety of industrial applications



Did you know?

Using untreated water can lead to harsh contaminant that may force a complete shutdown of your production site, resulted in significant financial losses. **Don't let poor water quality put your operations at risk!**



Understanding the Critical Role of Water

Water serves two primary roles in industrial segment:

Water for Production

In manufacturing processes, water plays a major role in determining the quality of the end product which is typically strictly regulated by the authorities.

The presence of contaminants can compromise production standards and negatively affect product quality and integrity.

Water for Auxiliary Systems

Auxiliary systems, including cooling towers, boilers, and closed-loop circuits, rely on high-quality water to minimize maintenance costs, improve energy efficiency, and extend equipment lifespan.

Aquaphor Professional systems ensure compliance with the highest standards, enhancing both product quality and equipment performance.

Production:

- Dairies
- Food and beverages
- Health care
- Cosmetics
- Health's care
- Chemicals
- Personal care products

Auxiliary:

- Cooling towers
- Boilers and heaters
- Chillers
- Laboratories
- CIP systems
- Closed loop systems
- Electronics manufacturing



Setting the Standard for Industrial Water Treatment

At AQUAPHOR Professional, we don't just meet industry standards — we set them.



Enhanced
Product
Quality



Operational
Efficiency



Energy
Savings



Chemical
Reduction



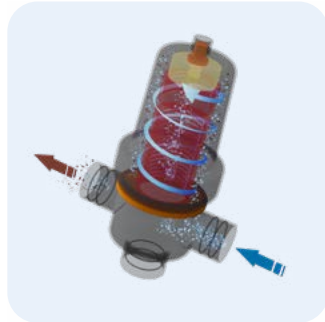
Longevity
of Equipment



Cost-
Effective

Variety of technologies

AQUAPHOR’s industrial water treatment systems offer fully automatic operation, designed for high energy efficiency and environmental sustainability. We combine various technologies to tailor each system to the specific needs of industrial applications, ensuring a continuous supply of purified water.



Automatically backwashable prefiltration



Chemical treatment



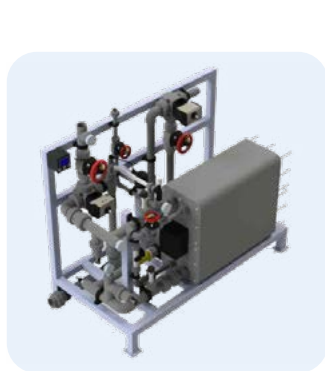
Reverse Osmosis



Activated Carbon & Softening



Ultrafiltration



Electrodeionization/Ion Exchange polishing

Smart APRO controller

Designed and manufactured in-house, AQUAPHOR’s intelligent controller ensures seamless operation, advanced system management, and remote monitoring (available via APRO Monitor App) for our RO systems. The system automatically detects and reports malfunctions. Real time tracking of prefilter usage for timely replacement.

Users can adjust flow rates, recovery levels, and other operational parameters.



Key advantages:



Fully automatic & standardized for small to mid-scale systems



Prefiltration replacement notification system



Automatic error detection & auto-correction



Customizable settings



Key Process Features

Designed to process different TDS of the raw water – AQUAPHOR's commercial water purifiers are designed to process the raw water of wide range of salinity:

- LP series — Up to 2000 ppm
- HP series — Up to 4000 ppm
- HS series — Up to 8000 ppm



Membrane lifespan
x3 times longer



Controllable & constant
water quality



Extremely high recovery



40% less energy spendings

APRO Standard series

I-series (150-500 LPH)

up to 500 l/h

Water- and energy-efficient reverse osmosis systems for small-scale industrial applications

- Fully automatic operation
- Plug & Play installation
- High efficiency – operational permeate recovery 60-90%
- Extra energy-efficient (up to 40% less energy consumption)
- User-friendly operation via smart controller or smartphone (Bluetooth)
- Compact design
- Designed for continuous operation
- Permeate recovery 60%
- High-capacity prefilter included

Liters/hour	150	250	300	500
m³/h	0.15	0.25	0.3	0.5
GPD	1000	1600	1900	3200
Operational pressure, bar	7-30			



APRO-I-500

APRO 750-2000 series

up to 2000 l/h

One-skid fully automatic reverse osmosis systems for large-scale industrial applications

- Fully automatic operation
- Plug & Play installation
- High efficiency – operational permeate recovery 60-90%
- Extra energy-efficient (up to 40% less energy consumption)
- User-friendly operation via smart controller or smartphone (Bluetooth)
- Compact design
- Designed for continuous operation
- Permeate recovery 60%
- High-capacity prefilter included

Liters/hour	750	1000	2000
m³/h	0.15	1	2
GPD	5000	6300	12600
Operational pressure, bar	7-10		



APRO 1000

Monoblocks™

Monoblocks™ series

up to 6000 l/h per unit

- Fully automatic operation
- Plug&Play installation
- High efficiency – operational permeate recovery 60-90%
- Extra energy-efficient (up to 40% less energy consumption)
- User-friendly operation via smart controller or smartphone (Bluetooth)



APRO-I-500

APRO	3000	3000 HP	4000	4000 HP	6000	6000 HP
Liters/hour	3000		4000		6000	
m³/h	3		4		6	
GPD	19 000		26 000		38 000	
Operational pressure, bar	7-30	12-16	7-30	12-16	7-30	12-16
SKU	100					

AQUAPHOR solutions are based on standardization and modular design. The Monoblock™ system is an innovative solution for treating water of any quality using a modular reverse osmosis technology.

Monoblock™ allows the user to set inexpensive multipurpose water purification units into a high-capacity multiarray with up to 8 Monoblocks combined under one master controller.

It allows to vary water output capacity and flex the system to perfectly fit current and future needs and conditions, altering when these changes are required.

Multiarray advantages:

Control – Single PLC control up to 8 modules

Flexibility of operation – The minimal needed number of Monoblocks is working at any given time, depending on the consumption mode. It saves water and electricity.

Redundancy – Each Monoblock™ is independently maintained and, if required, serviced

Modularity – If there is a need for extended capacity, it can be done by adding more modules.

Innovative Patented Multiarray of APRO Monoblocks

up to 50 000 l/h per unit

Our Multiarray of Monoblocks features individually operational modules that can be connected into a versatile multiarray system. These innovative RO monoblocks can be scaled flexibly by adding more units as needed, ensuring efficient operation and redundancy through a master control board that adjusts to varying consumption levels, optimizing both water and electricity use.



Master control board with touch screen color monitor supports management of up to 8 monoblocks and all kinds of the prefiltration and supply systems.

Monoblocks consist of standart APRO 6000 units

The Monoblock™ series is also available in a containerized configuration.



Chemicals

AQUAPHOR offers wide range of high-quality chemicals for industrial and municipal water treatment.



Reverse Osmosis Chemicals

- Pre-treatment chemicals
- Coagulants
- Flocculants
- Reagents for ultrafiltration module washing
- Chlorine scavenger
- Biofouling control
- Antiscalants
- Chemicals for membrane element washing



Chemicals for open & closed cooling systems



Boiler Chemicals

Why choose AQUAPHOR?

AQUAPHOR is the largest water treatment products manufacturer in the EU.

52 000 m² modern plants

Aquaphor, in its own EU-based (Estonia) facility, develops and manufactures efficient water purification solutions for a variety of water sources and applications.

Benefits of Aquaphor being your technological partner

The strongest R&D department in the water treatment industry:

- Modern laboratories
- >150 patents
- In-house patent office
- 30+ years of research experience

Cutting-edge production:

- Modern automated manufacturing facilities
- Strict QA policies
- Top-grade materials
- 2000 skillful employees

Standardized products:

- Production stability
- Consistent quality
- Shortest lead time on the market
- Competitive pricing achieved through mass-production

Cost-efficient operation and maintenance:

- Plug&Play installation
- Patented low-energy technology
- Longer lifespan of membranes
- Minimal maintenance efforts
- Flexible operation with remote control option



European. Affordable. Excellence

AQUAPHOR
PROFESSIONAL

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