

CATALOGUE



AQUAPHOR
PROFESSIONAL
water treatment

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APRO-FA systems

THE UNIQUE FEATURES OF OUR APRO-FA SYSTEMS
ALLOW A CONSISTENTLY PRODUCTION OF HIGH QUALITY WATER
WITH FULLY A AUTOMATIC REMOTE CONTROL

We introduce APRO-FA — fully automatic RO product line with Integrated ABB PLC with color touch screen display and remote control kit

Fully automatic system allows to set all the required operating parameters of the reverse osmosis system, including the ratio of permeate to drain. The system automatically starts and operates at the required parameters. After reaching the operating mode, the operating system decides the need of regeneration, and other parameters required for trouble free continuous operation. It is an artificial intelligence control reverse osmosis system.

- Built and assembled in EU



BENEFITS

- Fully automatic operation
- Trouble free operation
- Equipped with an interface that allows remote access
- Automatically maintains the flow, pressure drop
- Auto cleaning
- Improved water quality
- Extended membrane life
- Space saving design
- Quiet operation
- Reduced operational costs

SYSTEM EQUIPMENT

- High rejection TFC *GE* Membranes
- Multi Stage Stainless steel *Grundfos* pump
- Stainless steel 316 needle regulation valve, feed valve and connectors
- Stainless steel 316 seamless pressure vessels
- Stainless steel Frame and equipment panel
- Actuated automatic regulation valve (made in Switzerland)
- Fully equipped electric board with pump protection
- Quality monitoring with Stainless conductivity steel probe
- Turbine flow transmitters
- High Pressure Stainless steel 316 seamless piping
- Low Pressure Shutoff
- Double BB Pre-filter

OPTIONAL FEATURES

- *Grundfos* DDE antiscalant dosing pumps
- Supply pumps and storage vessels
- UF pre-treatment
- DI systems
- *Nalco* antiscalant
- Remote control kit



reverse osmosis system APRO-FA-1000



Standart features APRO-FA 250–2000 LPH

MODEL	APRO FA 250	APRO FA 500	APRO FA 750	APRO FA 1000	APRO FA 1500	APRO FA 2000
Permeate Flow, LPH	250	500	750	1000	1500	2000
Membrane Quantity	1	2	3	4	6	8
Max inlet TDS, ppm	4000	4000	4000	4000	4000	4000
Flush Valve	Yes	Yes	Yes	Yes	Yes	Yes

Specification APRO-FA 250–2000 LPH

MODEL	APRO FA 250	APRO FA 500	APRO FA 750	APRO FA 1000	APRO FA 1500	APRO FA 2000
Production of clean water LPH	250	500	750	100	1 500	2 000
Reduction of salt content, %	Up to 99,7%					
System recovery, %	45-85%					
Membrane's type	2 x 4021/ 1 x 4040	2 x 4040	3 x 4040	4 x 4040	6 x 4040	8 x 4040
Power consumption, kWt/h	0.7- 1 kWt/h per 1 m ³ permeat					
Power supply	220 V, 50 Hz 380 V, 50 Hz	380V , 50Hz				
Dimensions, mm	580/740/1400 590/800/1400	1775 / 1210 / 915			1200 / 860 / 1510	
Net weight, kg	134	210	215	220	225	240
Sizing (inlet, outlet, concentrate)	3/4" / 3/4" / 3/4" NPT(PB)	1" / 3/4" / 3/4" NPT (PB)				

GENERAL INFORMATION

The **reverse osmosis system of Aquaphor** (RO system) manufactured by "Westaqua-Invest OÜ" (Estonia, EU). The RO system is designed to **reduce the total salt content** by reverse osmosis (**desalination, demineralization, reduction of conductivity**) water from municipal and local water supply systems (brackish water) under the correspondence of the requirements established by the demands.

Materials of RO systems are **safety, non-toxic** and do not release to the water any dangerous substances to health or the environment.

The RO system is the most efficient and safe installation of desalination.

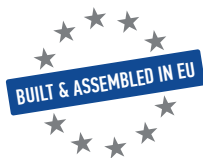
NOTE The RO system is not designed to solve all problems related to water treatment. For proper operation it requires pretreatment.

APRO-M systems

THE UNIQUE FEATURES OF OUR APRO-M SYSTEMS
ALLOW A CONSISTENTLY PRODUCTION OF HIGH QUALITY WATER
WITH LOW ENERGY CONSUMPTION AND SPACE SAVING

We introduce APRO-M Low energy Brackish Water RO product line

- Equipped with the highest quality components
- Robust construction and easy maintenance
- Modern design and quiet operation
- Built and assembled in EU



BENEFITS

- Improved water quality
- Extended membrane life
- Low maintenance operation
- Space saving design
- Quiet operation
- Reduced operational costs

SYSTEM EQUIPMENT

- Various Product Sizes 150 - 300 LPH
- Stainless steel Frame and equipment panel
- Multi Stage Stainless steel *Grundfos* pump
- Low Pressure membranes
- Stainless steel needle regulation valve
- Stainless steel pressure vessels
- Fully equipped electric board with pump protection
- MP controller for quality monitoring with Stainless steel probe
- Stainless steel panel mounted with Glycerin-filled Gauges
- Low Pressure Shutoff
- BB Pre-filter

OPTIONAL FEATURES

- *Grundfos* DDE antiscalant dosing pumps
- Supply pumps and storage vessels
- *Nalco* antiscalant



reverse osmosis system APRO-M-300



Standart features APRO-M 150–300 LPH



MODEL	APRO M 150	APRO M 300
Permeate Flow, LPH	150	300
Membrane Quantity	1	2
Membrane Size, inch	4 x 21	4 x 21
Max inlet TDS, ppm	4 000	4 000

Specification APRO-M 150–300 LPH

MODEL	APRO M 150	APRO M 300
Production of clean water LPH	150	300
Reduction of salt content, %	Up to 90	
System recovery, %	50 - 85	
Membrane's type	1 x 4021	2 x 4021
Input flow of water at a pressure of 3 bar	0,4 – 0,6	0,8 – 1,1
Power consumption, Wt	500	
Power supply	220V, 50 Hz	
Dimensions, mm	700 x 450 x 900	
Net weight, kg	57	70
Sizing (inlet, outlet, concentrate)	½"/½"/½" NPTF	

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APRO-LP systems

THE UNIQUE FEATURES OF OUR APRO-LP SYSTEMS
ALLOW A CONSISTENTLY PRODUCTION OF HIGH QUALITY WATER
WITH LOW ENERGY CONSUMPTION

We introduce APRO-LP Extreme Low energy Brackish Water RO product line

- Equipped with the highest quality components
- Robust construction and easy maintenance
- Modern design and quiet operation
- Built and assembled in EU



BENEFITS

- Improved water quality
- Extended membrane life
- Low maintenance operation
- Space saving design
- Quiet operation
- Reduced operational costs

SYSTEM EQUIPMENT

- Various Product Sizes 250 - 2,000 LPH
- Stainless steel Frame and equipment panel
- Multi Stage Stainless steel *Grundfos* pump
- Extreme Low Pressure *GE* membranes
- Stainless steel needle regulation valve
- Stainless steel pressure vessels
- *Belimo* actuated flush valve
- Fully equipped electric board with pump protection
- MP controller for quality monitoring with Stainless steel probe
- Stainless steel panel mounted with Glycerin-filled Gauges
- Low Pressure Shutoff
- Double BB Pre-filter

OPTIONAL FEATURES

- *Grundfos* DDE antiscalant dosing pumps
- Supply pumps and storage vessels
- Integrated *ABB* PLC and color touch screen display with remote control kit
- UF pre-treatment
- *Nalco* antiscalant



BUILT & ASSEMBLED IN EU

reverse osmosis system APRO-LP-1000



Standart features APRO-LP 250–2000 LPH



MODEL	APRO LP 250	APRO LP 500	APRO LP 750	APRO LP 1000	APRO LP 1500	APRO LP 2000
Permeate Flow, LPH	250	500	750	1 000	1 500	2 000
Membrane Quantity	1	2	3	4	6	8
Membrane Size, inch	4 x 40	4 x 40	4 x 40	4 x 40	4 x 40	4 x 40
Max inlet TDS, ppm	4 000	4 000	4 000	4 000	4 000	4 000
Flush Valve	Yes	Yes	Yes	Yes	Yes	Yes

Specification APRO-LP 250–2000 LPH

MODEL	APRO LP 250	APRO LP 500	APRO LP 750	APRO LP 1000	APRO LP 1500	APRO LP 2000
Production of clean water LPH	250	500	750	1 000	1 500	2 000
Reduction of salt content, %	Up to 90					
System recovery, %	50 – 85					
Membrane's type	1 x 4040	2 x 4040	3 x 4040	4 x 4040	6 x 4040	8 x 4040
Input flow of water at a pressure of 3 bar	0,4 – 0,6	0,8 – 1,1	1,2 – 1,65	1,6 – 2,2	2,4 – 3,3	3,2 – 4,4
Power consumption, Wt	500		670		1200	
Power supply	220V, 50 Hz				380V, 50 Hz	
Dimensions, mm	685 x 1 375 x 520		1 260 x 1 390 x 780		2 315 x 1 770 x 830	
Net weight, kg	57	70	91	101	153	160
Sizing (inlet, outlet, concentrate)	¾"/¾"/¾" NPTF		1" ¾"/¾" NPTF			

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APRO-HP systems

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ALLOW A CONSISTENTLY PRODUCTION
OF HIGH QUALITY WATER

We introduce APRO-HP Reverse Osmosis product line

- Equipped with the highest quality components
- Robust construction and easy maintenance
- Modern design and quiet operation
- Built and assembled in EU



reverse osmosis system APRO-HP-1000



BENEFITS

- Improved water quality
- Extended membrane life
- Low maintenance operation
- Space saving design
- Quiet operation
- Reduced operational costs

SYSTEM EQUIPMENT

- Various Product Sizes 250 – 2000 LPH
- Stainless steel Frame
- Multi Stage Stainless steel *Grundfos* pump
- MP controller for quality monitoring
- High rejection TFC Membranes
- Panel mounted Glycerin-filled Gauges
- Low Pressure Shutoff
- Double Pre-filter
- High Pressure Stainless steel piping
- Low Pressure PVC piping
- *Belimo* actuated flush valve

OPTIONAL FEATURES

- Antiscalant dosing pumps
- Supply pumps and storage vessels
- UF pre-treatment
- Polish DI tanks
- Integrated *ABB* PLC and color touch screen display with remote control kit



Standart features APRO-HP 250–2000 LPH



MODEL	APRO HP 250	APRO HP 375	APRO HP 500	APRO HP 750	APRO HP 1000	APRO HP 1500	APRO HP 2000
Permeate Flow, LPH	250	375	500	750	1000	1500	2000
Membrane Quantity	2	3	2	3	4	6	8
Max inlet TDS, ppm	4,000	4,000	4,000	4,000	4,000	4,000	4,000
Flush Valve	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Specification APRO-HP 250–2000 LPH

MODEL	APRO HP 250	APRO HP 375	APRO HP 500	APRO HP 750	APRO HP 1000	APRO HP 1500	APRO HP 2000
Production of clean water LPH	250	375	500	750	100	1 500	2 000
Reduction of salt content, %	Up to 99,7%						
System recovery, %	45-85%						
Membrane's type	2 x 4021/ 1 x 4040	3 x 4021	2 x 4040	3 x 4040	4 x 4040	6 x 4040	8 x 4040
Power consumption, kWt/h	0.7- 1 kWt/h per 1 m ³ permeat						
Power supply	220V, 50 Hz/ 380V,50 Hz		380V , 50Hz				
Dimensions, mm	580/740/1400, 590/800/1400		1775 / 1210 / 915			1200 / 860 / 1510	
Net weight, kg	134	153	210	215	220	225	240
Sizing (inlet, outlet, concentrate)	¾"/¾"/¾" NPT(PB)		1" / ¾" / ¾" NPT (PB)				

GENERAL INFORMATION

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APRO-HS systems

THE UNIQUE FEATURES OF OUR APRO-HS SYSTEMS
ALLOW A CONSISTENTLY PRODUCTION OF HIGH QUALITY WATER, SUITABLE
FOR HIGH SALINITY WATER SOURCES

We introduce APRO-HS Reverse Osmosis
product line also suitable for Baltic Sea
water purification

- Equipped with the highest quality components
- Robust construction and easy maintenance
- Modern design and quiet operation
- Built and assembled in EU



reverse osmosis system APRO-HS-1000



BENEFITS

- Improved water quality
- Extended membrane life
- Low maintenance operation
- Space saving design
- Quiet operation
- Reduced operational costs

SYSTEM EQUIPMENT

- Various Product Sizes 300 – 1500 LPH
- Stainless steel Frame
- Multi Stage Stainless steel 316 Grundfos pump
- MP controller for quality monitoring
- High rejection TFC Membranes
- Panel mounted Glycerin-filled Gauges
- Low Pressure Shutoff
- Double Pre-filter
- High Pressure Stainless steel 316 piping
- Low Pressure PVC piping
- Belimo actuated flush valve
- Stainless steel 316 membrane housings

OPTIONAL FEATURES

- Antiscalant dosing pumps
- Supply pumps and storage vessels
- UF pre-treatment
- Polish DI tanks
- Integrated ABB PLC and color touch screen display with remote control kit
- Nalco antiscalant



Standart features APRO-HS



MODEL	APRO HS 500	APRO HS 1000	APRO HS 1500	APRO HS 2000
Permeate Flow, LPH	300	600	1000	1500
Membrane Quantity	2	4	6	8
Max inlet TDS, ppm	10 000	10 000	10 000	10 000
Flush Valve	Yes	Yes	Yes	Yes

Specification APRO-HS

MODEL	APRO HS 500	APRO HS 1000	APRO HS 1500	APRO HS 2000
Production of clean water LPH	300	500	1000	1500
Reduction of salt content, %	95 - 99			
System recovery, %	25 - 85			
Membrane's type	2 x 4040	4 x 4040	6 x 4040	8 x 4040
Power consumption, Wt	0.7-1.5 kWt/h per 1 m ³ permeat			
Power supply	380 V, 50 Hz			
Dimensions, mm	1775 x 1210 x 915		1200 x 860 x 1510	
Net weight, kg	210	220	225	240
Sizing (inlet, outlet, concentrate)	1" / 3/4" / 3/4" NPT (PB)			

GENERAL INFORMATION

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APRO-HC systems

THE UNIQUE FEATURES OF APRO-HC SERIES SYSTEMS ALLOW A CONSISTENTLY PRODUCTION OF LARGE CAPACITY OF HIGH QUALITY WATER FOR YOUR SPECIFIC APPLICATION

We introduce APRO-HC Reverse Osmosis product line for consumers with big pure water consumption

- Equipped with the highest quality components
- Robust construction and easy maintenance
- Modern design and quiet operation
- Built and assembled in EU

BENEFITS

- Improved water quality
- Extended membrane life
- Low maintenance operation
- Space saving design
- Quiet operation
- Reduced operational costs

OPTIONAL FEATURES

- Supply pumps and storage vessels
- Integrated *ABB* PLC and color touch screen display with remote control kit
- UF pre-treatment
- *Nalco* antiscalant



SYSTEM EQUIPMENT

- Various Product Sizes 3000-20000 LPH
- Stainless steel frame and equipment panel
- Stainless steel 316 high pressure piping
- 5 micron pre filtration
- Energy saving *GE* AK-series brackish water high rejection membranes
- Multi-stage centrifugal stainless steel 316 pump
- Fully equipped electric board with pump protection and soft starter
- Clean-in-Place integrated system
- *Grundfos* DDE antiscalant dosing pumps
- 100 liter PE antiscalant tank
- FRP side port membrane housings
- Motorized feed valve, product drain valve and flush valve
- Stainless steel 316 regulation valves
- MP controller for quality monitoring
- High pressure shutoff
- Double low pressure shutoff
- Permeate conductivity SS 316 sensor
- RAW-water pump control relay
- Permeate tank level monitoring
- Alarms: low inlet pressure, low feed pressure, high permeate conductivity, motor fault, high concentrate pressure



reverse osmosis system APRO-HC-12000



Standard features – APRO HC 3000-20000

MODEL	APRO HC 3000	APRO HC 6000	APRO HC 9000	APRO HC 12000	APRO HC 15000	APRO HC 20000
Membrane Size, inch	8 x 40					
Salt rejection, %	98-99,5					
Recovery rate, %	50-95					
Membrane Quantity	3	6	9	12	15	20
Permeate Flow, LPH	3000	6000	9000	12000	15000	20000
Max inlet TDS, ppm	6000					
Power supply	380V, 50Hz					
Flush Valve	Yes					
Pre-Filter Quantity	3 X LD0520	4 X LD0520	7 X RO.Z 0540	14 X RO.Z 0540	14 X RO.Z 0540	14 X RO.Z 0540
Dimensions, mm	3705 x 2115 x 1200	3705 x 2115 x 1200	3840 x 1830 x 1400	3920 x 1870 x 1400	5730 x 1870 x 1400	5730 x 1870 x 1400



reverse osmosis system
APRO-HC-9000



reverse osmosis system
APRO-HC-6000

GENERAL INFORMATION

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APRO-CT systems

THE UNIQUE FEATURES OF APRO-CT SERIES SYSTEMS ALLOW A CONSISTENTLY PRODUCTION OF LARGE CAPACITY OF HIGH QUALITY WATER FOR YOUR SPECIFIC APPLICATION

We introduce APRO-CT Reverse Osmosis product line for consumers with big pure water consumption

- Equipped with the highest quality components
- Robust construction and easy maintenance
- Modern design and quiet operation
- Built and assembled in EU

BENEFITS

- Improved water quality
- Extended membrane life
- Low maintenance operation
- Space saving design
- Quiet operation
- Reduced operational costs

OPTIONAL FEATURES

- Supply pumps and storage vessels
- Integrated ABB PLC and color touch screen display with remote control kit
- UF pre-treatment
- *Nalco* antiscalant



reverse osmosis system APRO-CT 4000



SYSTEM EQUIPMENT

- Various Product Sizes 3000-6000 LPH
- Stainless steel frame and equipment panel
- Stainless steel 316 high pressure piping
- 5 micron pre filtration
- Energy saving *GE* AK-series brackish water high rejection membranes
- Multi-stage centrifugal stainless steel 316 pump
- Fully equipped electric board with pump protection and soft starter
- Clean-in-Place integrated valves
- *Grundfos* DDE antiscalant dosing pumps
- FRP side port membrane housings
- Motorized feed valve and flush valve
- Stainless steel 316 regulation valves
- MP controller for quality monitoring
- High pressure shutoff
- Double low pressure shutoff
- Permeate conductivity SS 316 sensor
- RAW-water pump control relay
- Permeate tank level monitoring
- Alarms: low inlet pressure, low feed pressure, high permeate conductivity, motor fault, high concentrate pressure



Standard features – APRO-CT 3000-6000

MODEL	APRO-CT 3000	APRO-CT 4000	APRO-CT 6000
Membrane Size, inch	8 x 40		
Salt rejection, %	98-99,5		
Recovery rate, %	50-95		
Membrane Quantity	3	4	6
Permeate Flow, LPH	3000	4000	6000
Max inlet TDS, ppm	6000		
Power supply	380V, 50Hz		
Flush Valve	Yes		
Pre-Filter Quantity	4 X LD0520	4 X LD0520	4 X LD0520
Dimensions, mm	3640 (L) x 1465 (H) x 805 (W)	2650 (L) x 1465 (H) x 805 (W)	3640 (L) x 1465 (H) x 805 (W)



*reverse osmosis system
APRO-CT 3000*



*reverse osmosis system
APRO-CT 6000*

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APRO-PAP systems

COMPACT ALL-IN-ONE 500 L PER HOUR INCLUDING PREFILTRATION,
REVERSE OSMOSIS SYSTEM, POST FILTRATION WITH MINERALIZATION,
UV AND BUILT-IN 80 L PERMEATE STORAGE TANK

We introduce APRO-PAP Low energy Brackish Water RO system

- Equipped with the highest quality components
- Robust construction and easy maintenance
- Modern design and quiet operation
- Built and assembled in EU



reverse osmosis system APRO-PAP-500



BENEFITS

- Improved water quality
- Extended membrane life
- Low maintenance operation
- Space saving design
- Quiet operation
- Reduced operational costs
- Permeate flush

SYSTEM EQUIPMENT

- Stainless Steel UV system
- Stainless steel Frame and equipment panel
- Multi Stage Stainless steel Grundfos pump
- Low Pressure membranes
- Stainless steel needle regulation valve
- Stainless steel pressure vessels
- Fully equipped electric board with pump protection
- MP controller for quality monitoring with Stainless steel probe
- Stainless steel panel mounted with Glycerin-filled Gauges
- Low Pressure Shutoff
- BB Pre-filters

OPTIONAL FEATURES

- Nalco antiscalant
- Additional storage tank



Standart features APRO-PAP 500 LPH

MODEL	APRO P&P 500 LPH
Permeate Flow, LPH	500
Membrane Quantity	2
Membrane Size, inch	4 x 40
Max inlet TDS, ppm	4 000

Specification APRO-PAP 500 LPH

MODEL	APRO P&P 500 LPH
Production of clean water LPH	500
Reduction of salt content, %	Up to 90
System recovery, %	50 - 85
Membrane's type	2 x 4040
Input flow of water at a pressure of 3 bar	0,8 – 1,1
Power consumption, Wt	550
Power supply	220V, 50Hz
Dimensions, mm	800 x 800 1300
Net weight, kg	107
Sizing (inlet, outlet, concentrate)	½"/½"/½" NPTF

GENERAL INFORMATION

The **reverse osmosis system of Aquaphor** (RO system) manufactured by "Westaqua-Invest OÜ" (Estonia, EU). The RO system is designed to **reduce the total salt content** by reverse osmosis (**desalination, demineralization, reduction of conductivity**) water from municipal and local water supply systems (brackish water) under the correspondence of the requirements established by the demands.

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Aquaphor ULTRA

THE AQUAPHOR ULTRAFILTRATION SYSTEM ULTRA IS DESIGNED TO REMOVE MECHANICAL IMPURITIES (BIGGER THAN 0.01 MICRON) SUCH AS: COLLOIDAL PARTICLES; BACTERIA; VIRUSES; ORGANIC MACROMOLECULES FROM MUNICIPAL AND LOCAL WATER SUPPLY SYSTEMS (ARTESIAN WELLS, ETC) PROVIDED THEY MEET THE ESTABLISHED REQUIREMENTS.

Water filtration system Aquaphor Ultra is manufactured by JSC Aquaboss (St. Petersburg, Russia) by the order of Aquaphor Corp. (St. Petersburg, Russia).

Filtration system utilizes economically beneficial, environmentally friendly and efficient purification technology to remove submicron impurities from water by ultra filtration. This technology implements the so called hollow fiber as the basic working element. It is technologically possible to produce fiber with pores up to 0.005 micron.



Aquaphor ULTRA 3.2

SYSTEM

The Aquaphor Ultra filtration system based on hollow fiber membranes can ensure Dead-end ultra filtration process, i.e. filtration through fiber with alternate direct and back flushing cycles that substantially reduces water consumption. Water is filtered perpendicularly to the hollow fiber surface and this reduces a risk to clog the hollow fiber.

TECHNIQUE

Ultra filtration technique ensures a physical barrier against microbes and suspended particles to get pure drinking water. In addition, ultra filtration is utilized in pretreatment of water from bare sources, of sea water as well as of water that underwent biological treatment before RO systems and other membrane water purifiers (for instance, electro dialysis plants).

APPLICATION

- Water pre-filtration before desalting unit.
- Ultrafiltration system can replace coagulation and mechanical filtration, this improves the quality of the treated water, reduce membranes and ion-exchange resin pollution, and significantly increase their lifetime.
- Final ultra-clean municipal water filtration in the cottages, apartments, manufacturing, restaurants, hotels
- Reagent – free disinfection with simultaneous removal of turbidity and color of borehole, wells, river and lake water and water containing high molecular organics.
- Cleaning of water in swimming pools without chemicals.
- It eliminates the costly and cumbersome purification filters.
- Bleaching and disinfection of drinking water while preserving the natural mineral background. This is so essential for the production of bottled water.



Technical specifications

MODEL	ULTRA 1.6	ULTRA 3.2
Total membrane area, m2	10	20
Initial capacity (0.1 Mpa, 25°C), m3/hour	1.6	3.2
Number of units	2	4
Rated capacity (0.1 Mpa, 25°C), m3/hour	0.6 - 1.0	1.2 - 2.0
Port sizes (inlet/ outlet/ drain)	G 3/4"	G 3/4"
Overall dimensions	1300 x 430 x 410	1300 x 430 x 410
Weight, kg	12	31
Max. working temperatue, °C	45	
Membrane material	PS	
Material of the membrane unit housing and pipelines	PVC	
Membrane pore sizes, kDa (micron) PVC	67 (less than 0.01)	
Max. size of particles that can be contained in water fed to the ultra filtration system (for models with OX index (microns)	200	
Membrane unit size, mm	90 x 1000 (DN20)	
Power supply, VAC, VDC	220; 12	
Power consumption, Wt	6	

Aquaphor A800 and A1000

THE WHOLE-HOUSE WATER TREATMENT SYSTEM

Aquaphor Models 800 and 1000 have fully automatic processor control and demonstrate exceptional salt efficiency and high iron removal. Systems employ innovative Dual Core Valves that increase regeneration. Efficient and durable softener tank contain extra fine mesh, tightly compacted, chlorine resistant ion-exchange resin.



water softeners Aquaphor Models A800 and A1000

- Aquaphor 1000 contains 28 liters of ion-exchange resin
- Aquaphor 800 contains 23 liters of ion-exchange resin

BENEFITS

- Innovative two-cylinder head valve regulates water flow in and out of the softener tank. It has fewer parts, shorter and wider fluid pathways, selflocking/self-pressurising mechanism.
- Removal of high concentration of Fe (up to 15 ppm).
- 10-year warranty.
- Made in the USA.
- NSF certification pending.
- Very low salt consumption.
- Fast IER regeneration.
- Easy installation and set-up. Minimum maintenance requirements.

ADVANTAGES

- Simultaneous removal of iron, manganese and hardness.
- Reliable fittings of stainless steel and the drain hose in the set.
- Reliability and durability of all over the pressure range from 1.5 to 7 atm.



Water Conditioner Performance & Specifications

SPECIFICATION		A800	A1000
Maximum Capacity, grains		24 000	31 800
Maximum Compensated Hardness, gpg (mg/L)		70 (1 200)	90 (1 540)
Maximum Ferrous Iron Reduction, ppm ¹		10	10
Minimum pH, standard units		7	7
Water & Ambient Temperature Minimum-Maximum, °F (°C)		40°-120° (4°-49°)	40°-120° (4°-49°)
Water Pressure Minimum - Maximum, psi (bar)		20 (1,4) - 100 (7)	20 (1,4) - 100 (7)
Maximum Flow Rate to Drain During Regeneration ²	gpm (L/min)	2,0 (7,6)	2,0 (7,6)
Service Flow Rate (@15 psi (1.0 bar)) drop, gpm (L/min) ³		5,5 (20,8)	5,5 (20,8)
Pressure Drop @ 5.5 gpm (22.7 L/min), psi (bar)		15 (1)	15 (1)
Salt Used lb (kg)	Water Used Gallons (Liters)	A800 Grains (Grams) removed	A1000 Grains (Grams) removed
1.6 (0.7)	14 (53)	6,651 (431)	6,891 (446)
8 (3.6)	23.5 (89)	22,552 (1461)	24,620 (1595)
15 (16.8)	35 (132)	25,076 (1625)	31,807 (2061)
Controller Type		Metered	Metered
Electrical Rating		12VAC, 50/60 Hz, 0.015 kW-hr	12VAC, 50/60 Hz, 0.015 kW-hr
Plumbing Connections (NPT)		1 inch male (MNPT)	1 inch male (MNPT)
Minimum Drain Line ID, inch (cm)		5/8 inch (1.6)	5/8 inch (1.6)
Media Tank Size - (ID x Height), inch (cm)		10.5 x 23 (26.7 x 58.4)	10.5 x 26 (26.7 x 66)
Height, inches (cm)		27.8 (70.6)	31.3 (79.5)
Footprint, inches (cm)		15.9 x 19.1 (40.4 x 48.5)	15.9 x 19.1 (40.4 x 48.5)
Shipping Weight - approx., lb (kg)		95 (43)	105 (48)
Media Type / Amount			
Fine Mesh Resin		0.8 cu.ft. (23L)	1.0 cu.ft. (28L)
For All Models: Use clean white pellet, cube-style, or solar salt. Drain Line (Minimum I.D.) 5/8 inch (1.6 cm) Brine & Rinse total - 0.75 gpm (2.8 L/min) Brine Draw - 0.25 gpm (0.9 L/min) Rinse - 0.5 gpm (1.9 L/min)		¹ Iron reduction to 0.3 ppm or less. Iron reduction claims limited to 5 ppm in the state of Wisconsin. ² Rate of flow must be verified at the end of the drain line. ³ For the purposes of plumbing appliance sizing, only the rated service flow rate and corresponding pressure loss may be used. Prolonged operation of a water softener at flow rates exceeding the tested service flow rate of 5.5 gpm (20.8 L/min) may compromise performance. Intermittent flow rate must not exceed 9.3 gpm (35.2 L/min).	

System conforms to NSF/ANSI 44 for the specific performance claims as verified and substantiated by test data.

1. The compact housing type "Cabinet".
2. Highly dispersed high-capacity sorbent provides high performance and total removal of iron, manganese and hardness.
3. The patented proprietary valve provides an uninterrupted filter operations during its lifetime.
4. Controller with a big informative screen.

5. The patented reticulated flow distributor dispatches the flow of treated water throughout the sorbent volume.
6. The cover slider for easy access to the salt tank and filter ensure compactness.
7. The bypass valve in the set.
8. Extremely reliable tank from strong glass-filled plastic.

Pre-filters Aquaphor GROSS

AQUAPHOR PRE-FILTERS ARE THE CORNERSTONE OF ALL WATER PURIFICATION. BEFORE AQUAPHOR FILTERS CAN PROTECT YOU, YOU MUST PROTECT THEM.

GROSS is a pre-filter housing for cold water. Effectively removing sand, rust, silt and other impurities, GROSS simplifies the work of the drinking water filter, protects appliances from damage, and makes showering and bathing more enjoyable.

Made of glass-fiber reinforced plastic, GROSS has high pressure resistance and a convenient swivel bracket. It can be equipped with Big Blue 20" (508 mm) replacement module. Filter module replacement process is greatly simplified by the quick release mount.



pre-filters Aquaphor GROSS 10" and 20"

FUNCTION

Made from high-quality Noryl plastic, AQUAPHOR pre-filters can work in a wide range of temperatures and withstand enormous pressure. Despite all this power, they are very compact in size.

Pre-filters remove large insoluble impurities from tap water, including sand, rust and silt. They extend the life cycle of AQUAPHOR filters as well as of your appliances, plumbing, and pipes for cold and hot water by protecting them from dirt and mechanical damage.

ADVANTAGES







- Heavy-duty glass fiber filled polymer housing
- Resistance to high temperatures
- Excellent resistance to water hammers
- The quick-release "American" mount does not require tools for module replacement
- Set of 3/4-inch metal fittings for easy connection
- The convenient bracket allows changing the direction of water entry and exit with a single motion
- Easy to changeable filter cartridges

BENEFITS

- High hydrophilicity resulting in high flow and low pressure drop in the filter
- High dirt holding capacity due to 100% usage of the filter volume
- AQUALEN fibers significantly decrease level of heavy metals and iron



Specification and Performance

MODEL	SIZE	NOMINAL PARTICLE RATING	DP & FLOW RATE	CHLORINE TASTE & ODOR REDUCTION	VOC REDUCION	LEAD REDUCION
B510-12   	100 mm x 254 mm	5 microns	0,2 bar & 7,5 Lpm	24 000 L	NA	NA
B520-12   	100 mm x 508 mm	5 microns	0,2 bar & 15 Lpm	48 000 L	NA	NA

Replacement Filters

B510-12 GROSS 10"	B520-12GROSS 20"
 <p>Gross 10 replacement filter for cold water purification in the entire home. Its unique structure and design allow the module to remove sediments, chlorine, heavy metals and other impurities from the water.</p> <p>Filter life: 30,000 L Capacity: 10 L per min</p>	 <p>Gross 20 replacement filter for cold water purification in the entire home. Its unique structure and design allow the module to remove sediments, chlorine, heavy metals and other impurities from the water.</p> <p>Filter life: 60,000 L Capacity: 20 L per min</p>



Dynamic Fixation of Silver

DFS technology is the original method of applying silver in its most active ionic form to Aqualen fibers.



Aqualen™

Aqualen is a unique fibrous chelating ion-exchange sorbent. Aqualen irreversibly binds heavy metal ions. It has superior adsorption capacity. Aqualen sorption surface area is 33 times larger than that of the conventional ion-exchange sorbents. It is equally effective in water of any hardness.



CarbFiber Block

CarbFiber Block (CFB) is a manufacturing technology of water filtration media with different degrees of porosity and is designed for water of any pollution level.

Aquaphor Profesional offers a wide range of solutions for commercial water treatment applications. As a Joint Venture of Winter Engineering Ltd (Israel) and Aquaphor Corporation (Estonia), it combines expertise in the production of high quality RO systems of the former with technology and mass manufacturing capabilities of the latter.

We provide expertise and solutions for medical, pharmaceutical, electronics, food and other commercial applications. Aquaphor Professional's product lines include RO systems, Ultrafiltration, and Water Softeners.