

AQUAPHOR PROFESSIONAL



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APRO SST 150–750 systems

FULLY AUTOMATIC (PLUG & PLAY)

Mass produced APRO SST Brackish Water RO product line (EU and international patents issued and pending)

- Ultra low energy consumption
- Remote control
- Easy settings via APRO Monitor App



reverse osmosis system APRO-300-SST



BENEFITS

- Low energy consuming booster pump saves up to 50% electricity
- Permeate recovery up to 99%
- Extended membrane life
- Easy maintenance
- Space saving design
- Low cost operation

STANDARD SYSTEM EQUIPMENT

- Grundfos pump (Made in EU)
- Stainless steel frame and case
- Stainless steel seamless pressure vessels
- Automatic patented preset Permeate Recovery Control
- Fully equipped electric board
- MP controller with TDS/flow/pressure monitoring
- 4.5" (BB) / 5.5" DIA (Viking) with patented high capacity multistage cartridge
- Modbus

OPTIONAL FEATURES

- Dosing pump with level switch
- Supply pumps and storage vessels
- GSM/GPRS/Modem
- CIP system

APRO TYPE	MAX INLET TDS
APRO Standrad	2 000
APRO (HP) High Pressure	4 000
APRO (HS) High Salinity	8 000



					
MODEL	APRO SST 150	APRO SST 300	APRO SST 250	APRO SST 500	APRO SST 750
Operational pressure, bar	7-10				
Permeate Flow, LPH	150	300	250	500	750
Membrane Quantity	1	2	1	2	3
Membrane Size, inch	4 × 21		4 × 40		
Max inlet TDS, ppm	2 000				
Reduction of salt content, %	up to 95				
System recovery, %	75 - 99				
Power supply	single-phase 230V, 50Hz				
Dimensions, mm	510 × 390 × 725	595 × 390 × 845	555 × 390 × 1 210	630 × 390 × 1 270	765 × 390 × 1 270
Net weight, kg	38,5	49,5	47,5	58,5	72
Size (inlet, outlet, concentrate)	¾"/½"/½" NPTF				

APRO 250–750 HP (High Pressure)

MODEL	APRO 250 HP	APRO 500 HP	APRO 750 HP
Operational pressure, bar	12-16		
Membrane Quantity	1	2	3
Membrane Size, inch	4 × 40		
Max inlet TDS, ppm	4 000		
Reduction of salt content, %	up to 98		
System recovery, %	75 - 95		
Power supply	three-phase 400V, 50Hz		

APRO 250–750 HS (High Salinity)

MODEL	APRO 250 HS	APRO 500 HS	APRO 750 HS
Operational pressure, bar	16-30		
Membrane Quantity	1	2	3
Membrane Size, inch	4 × 40		
Max inlet TDS, ppm	8 000		
Reduction of salt content, %	up to 98		
System recovery, %	75 - 95		
Power supply	three-phase 400V, 50Hz		

GENERAL INFORMATION

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

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APRO 150–750 systems

FULLY AUTOMATIC (PLUG & PLAY)

Mass produced APRO Brackish Water RO product line (EU and international patents issued and pending)

- Ultra low energy consumption
- Remote control
- Easy settings via APRO Monitor App



reverse osmosis system APRO 300

BENEFITS

- Low energy consuming booster pump
- Permeate recovery up to 99%
- Extended membrane life
- Easy maintenance
- Space saving design
- Low cost operation
- Reduced antiscalant consumption
- Automatic

STANDARD SYSTEM EQUIPMENT

- Grundfos pumps (Made in EU)
- Stainless steel seamless pressure vessels
- Automatic patented preset Permeate Recovery Control
- Fully equipped electric board
- MP controller with TDS/flow/pressure monitoring
- 4.5" (BB) / 5.5" DIA (Viking) with patented high capacity multistage cartridge
- Modbus

OPTIONAL FEATURES

- Dosing pump with level switch
- Supply pumps and storage vessels
- GSM/GPRS/Modem
- CIP system



MODEL	APRO 150	APRO 300	APRO 250	APRO 500	APRO 750
Operational pressure, bar	7-10				
Permeate Flow, LPH	150	300	250	500	750
Membrane Quantity	1	2	1	2	3
Membrane Size, inch	4 × 21		4 × 40		
Max inlet TDS, ppm	2 000				
Reduction of salt content, %	up to 95				
System recovery, %	75 - 99				
Power supply	230V, 50 Hz				
Dimensions, mm	510 × 390 × 725	595 × 390 × 845	555 × 390 × 1 210	630 × 390 × 1 270	765 × 390 × 1 270
Net weight, kg	38,5	49,5	47,5	58,5	72
Size (inlet, outlet, concentrate)	¾"/½"/½" NPTF				

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APRO-1000 and APRO-1000-SST

FULLY AUTOMATIC (PLUG & PLAY)

Mass produced APRO-1000 and APRO-1000-SST Brackish Water reverse osmosis systems

- Ultra low energy consumption
- Remote control
- Easy settings via APRO Monitor App



BENEFITS

- Dual low energy booster and recirculation pumps
- Permeate recovery up to 99%
- Extended membrane life
- Easy maintenance
- Space saving design
- Low cost operation

STANDARD SYSTEM EQUIPMENT

- Grundfos pumps (Made in EU)
- Stainless steel seamless pressure vessels
- Fully equipped electric board
- MP controller with TDS/flow/pressure monitoring
- 4.5" (BB) / 5.5" DIA (Viking) with patented high capacity multistage cartridge
- SS frame (for SST models) and case
- Modbus
- Automatic patented preset Permeate Recovery Control

OPTIONAL FEATURES

- Dosing pump with level switch
- Supply pump and storage vessels
- GSM/GPRS/Modem
- CIP system



reverse osmosis system APRO-1000-SST

APRO TYPE	MAX INLET TDS
APRO Standrad	2 000
APRO (HP) High Pressure	4 000
APRO (HS) High Salinity	8 000



MODEL	APRO 1000	APRO SST 1000
Operational pressure, bar	7 - 10	
Permeate Flow, LPH	1 000	
Membrane Quantity	4	
Membrane Size, inch	4 × 40	
Max inlet TDS, ppm	2 000	
Frame material	Coated CSTL	SS
Reduction of salt content, %	up to 95	
System recovery, %	75 - 99	
Power supply	single-phase 230V, 50Hz	
Dimensions, mm	830 × 520 × 1 300	
Net weight, kg	94	97
Size (inlet, outlet, concentrate)	¾"/½"/½" NPTF	

APRO1000 HP (High Pressure)

MODEL	APRO 1000 HP
Operational pressure, bar	12 - 16
Membrane Quantity	4
Membrane Size, inch	4 × 40
Max inlet TDS, ppm	4 000
Reduction of salt content, %	up to 98
System recovery, %	75 - 95
Power supply	three-phase 400V, 50Hz

APRO1000 HS (High Salinity)

MODEL	APRO 1000 HS
Operational pressure, bar	16 - 30
Membrane Quantity	4
Membrane Size, inch	4 × 40
Max inlet TDS, ppm	8 000
Reduction of salt content, %	up to 98
System recovery, %	75 - 95
Power supply	three-phase 400V, 50Hz

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APRO 3000, 4000, 6000 Systems Monoblocks – innovative RO units

Fully automatic large scale Brackish Water RO product line

- Ultra low energy consumption
- Remote control
- Easy settings via APRO Monitor App



patented APRO 6000

BENEFITS

- Dual booster and recirculation pumps save up to 50% electricity
- Permeate recovery up to 99%
- Easy maintenance
- Extended membrane life
- Space saving design
- Low cost operation
- Patented high frequency membrane cleaning concentrate discharge

STANDARD SYSTEM EQUIPMENT

- Fully equipped electric board
- Grundfos pumps (Made in EU)
- MP controller with TDS/flow/pressure monitoring
- 5.5" DIA (Viking) with patented high capacity multistage cartridge
- Modbus
- Dosing pump with level switch

OPTIONAL FEATURES

- Supply pumps and storage vessels
- GSM/GPRS/Modem
- CIP Tank

APRO TYPE	MAX INLET TDS
APRO Standrad	2 000
APRO (HP) High Pressure	4 000
APRO (HS) High Salinity	8 000



MODEL	APRO 3000	APRO 4000	APRO 6000
Operational pressure, bar	7-10		
Permeate Flow, LPH	3 000	4 000	6 000
Membrane Quantity	3	4	6
Membrane Size, inch	8 × 40		
Max inlet TDS, ppm	2 000		
Reduction of salt content, %	up to 95		
System recovery, %	up to 98		
Power supply	three-phase 400V, 50Hz		
Dimensions, mm (L×W×H)	3 640 × 840 × 1 150	2 800 × 840 × 1 150	2 800 × 840 × 1 150
Net weight, kg	236	287	389
Size (inlet, outlet, concentrate)	2"/ 1"/ 1"		

APRO 3000-6000 HP (High Pressure)

MODEL	APRO 3000 HP	APRO 4000 HP	APRO 6000 HP
Operational pressure, bar	12-16		
Membrane Quantity	3	4	6
Membrane Size, inch	8 × 40		
Max inlet TDS, ppm	4 000		
Reduction of salt content, %	up to 99		
System recovery, %	up to 95		
Power supply	three-phase 400V, 50Hz		

APRO 3000-6000 HS (High Salinity)

MODEL	APRO 3000 HS	APRO 4000 HS	APRO 6000 HS
Operational pressure, bar	16-30		
Membrane Quantity	3	4	6
Membrane Size, inch	8 × 40		
Max inlet TDS, ppm	8 000		
Reduction of salt content, %	up to 99		
System recovery, %	up to 90		
Power supply	three-phase 400V, 50Hz		

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Multiarray of monoblocks

INNOVATIVE PATENTED
APRO 12000-50000 LPH MONOBLOCKS

- Mass produced multipurpose, off-the-shelf inexpensive monoblocks. No need for special design or expensive customization.
- Multiarray advantage, minimal needed number of monoblocks is working at any given time.
- Water purifier operates always at maximum efficiency.
- Turn on the required number of systems, depending on the consumption mode. It saves water and electricity as compared to running a single system of the same capacity.
- Redundancy: each monoblock is independently maintained and, if required, serviced.
- Management console for monoblocks control
- If a consumer will need additional capacity, more blocks can be added later.



BENEFITS

- Purified water recovery up to 98%
- Patented high frequency membrane cleaning concentrate discharge
- Low energy consuming Grundfos booster and high flow, low energy recirculation pumps (save up to 50%+ of electricity)
- Self-sufficient monoblocks with “slave” controllers and smart master controller (cloud optimization)
- Optional built-in UF pre-filtration
- Extended membrane life
- Space saving design
- Low-cost operation
- Easy maintenance

STANDARD SYSTEM EQUIPMENT

- Grundfos pumps (Made in EU)
- Fully equipped electric board
- MP controller with TDS/flow/pressure monitoring
- 5.5” DIA (Viking) with patented high capacity multistage cartridge
- SS frame
- Modbus
- Antiscalant dosing pump with level switch

OPTIONAL FEATURES

- Supply pumps and storage tanks
- GSM/GPRS/Modem
- CIP system

POSSIBLE SYSTEMS CAPACITIES

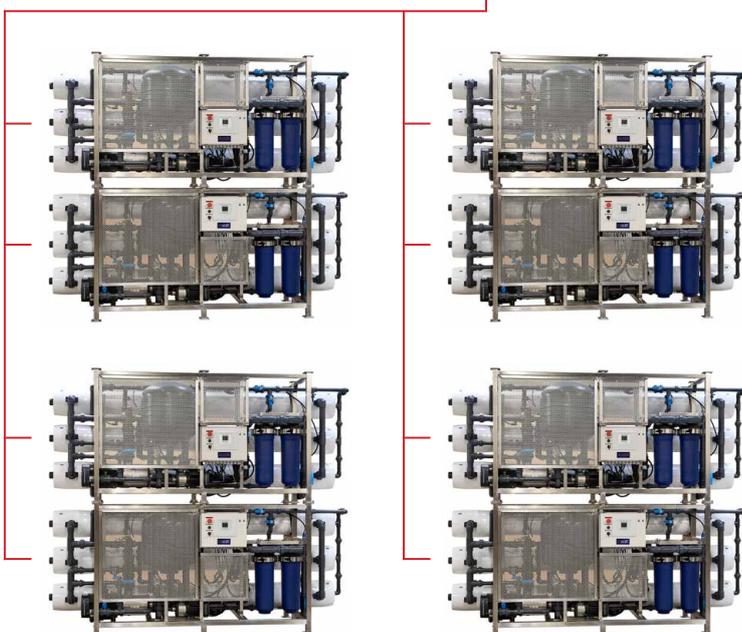
- 2 monoblocks - 12 000 LPH
 - 3 monoblocks - 18 000 LPH
 - 4 monoblocks - 24 000 LPH
 - 5 monoblocks - 30 000 LPH
 - 6 monoblocks - 36 000 LPH
 - 7 monoblocks - 42 000 LPH
 - 8 monoblocks - 48 000 LPH
- One Master Control board*

* Automated software allows to use any number of Master Control boards working



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 standard APRO 6000

APRO TYPE	MAX INLET TDS
APRO Standrad	2 000
APRO (HP) High Pressure	4 000
APRO (HS) High Salinity	8 000





MODEL	STANDARD APRO
Operational pressure, bar	7-10
Permeate Flow per monoblock, LPH	6 000
Membrane Quantity	6
Membrane Size, inch	8 × 40
Max inlet TDS, ppm	2 000
Frame material	SS
Reduction of salt content, %	up to 98
System recovery, %	up to 95
Power supply	three-phase 400V, 50Hz
Dimensions, mm	2 800 × 840 × 1 150
Net weight, kg	389
Size (inlet, outlet, concentrate)	2"/ 1"/ 1"

APRO HP (High Pressure)

MODEL	APRO HP
Operational pressure, bar	12-16
Membrane Quantity	6
Membrane Size, inch	8 × 40
Max inlet TDS, ppm	4 000
Reduction of salt content, %	up to 98
System recovery, %	up to 95
Power supply	three-phase 400V, 50Hz

APRO HS (High Salinity)

MODEL	APRO HS
Operational pressure, bar	16-30
Membrane Quantity	6
Membrane Size, inch	8 × 40
Max inlet TDS, ppm	8 000
Reduction of salt content, %	up to 98
System recovery, %	up to 95
Power supply	three-phase 400V, 50Hz

GENERAL INFORMATION

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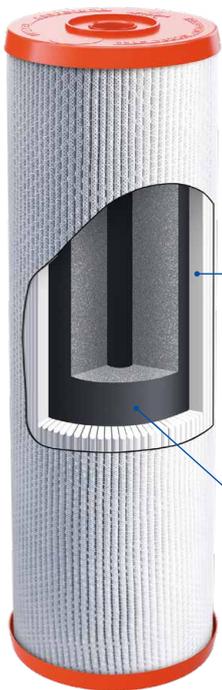
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Pre-filtration

The filter housing is made of reinforced plastic or optional 316 stainless steel.

Designed for easier installation and maintenance.



Design of B520/B510 Pro series replacement filter cartridges

Corrugated outer layer comprises two layers of different patented microfibrinous composite materials, including AQUALEN nanofibers.

Inner layer is a patented high-capacity composite carbon block. Effectively removes particles of up to 0.5 micron.

*Pre-filter Aquaphor
VIKING PRO 20"*



*Pre-filter Aquaphor
GROSS 20"*



*Pre-filter Aquaphor
VIKING Midi Pro 10"*



*Pre-filter Aquaphor
GROSS 10"*



HOUSING BENEFITS

- Glass fiber filled polymer housing
- Excellent resistance to water hammers
- Easy to change filter cartridges
- Pressure relief system

CARTRIDGE BENEFITS

- High dirt holding capacity
- High flow and low pressure drop
- Chelating AQUALEN fibers for effective removal of heavy metals and iron
- EFFECTIVELY REMOVES:
 - rust and colloidal iron
 - organic impurities
 - heavy metals
 - active chlorine
 - sand and other insoluble impurities



Specifications and Performance

				
FEATURES	GROSS 20"	GROSS 10"	VIKING PRO 20"	VIKING MIDI PRO 10"
Housing material	glass fiber filled polymer			
Operating pressure, MPa/bar	0.63 / 6.5			
Operating temperature	+ 5... + 38° C			
Filtration rate , l/min	up to 60			
Dimensions (D × W × C), mm	180 x 260 x 605	180 x 260 x 355	221 x 222 x 606	225 x 279 x 440
Replacement of filter cartridges	filter life depends on a cartridge used			

Filtration Cartridge Options

Polypropylene, 5 micron	EFG 112/508, 5 micron	EFG 112/250, 5 micron	B520-PP5	-
Polypropylene, 20 micron	EFG 112/508, 20 micron	EFG 112/250, 20 micron	B520-PP20	-
Carbon block	B520-12	B510-12	B520 PRO	B515 PRO

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APRO-MCR-100 and APRO-MCR-100-SST systems

PATENTED SPACE-SAVING APRO-MCR 100 SYSTEMS
PRODUCE HIGH QUALITY WATER WITH LOW ENERGY
AND WATER CONSUMPTION

BUILT & ASSEMBLED IN EU



reverse osmosis system APRO-MCR 100

BENEFITS

- Two heavy duty miniaturized pumps provide fast recirculating flow with up to 50% energy savings compared to the standard single pump system
- Patented high-frequency, water saving drainage system
- Fully automatic
- Extended membrane life due to membrane anti clogging system
- Low cost operation
- Easy maintenance
- Plug & Play
- High capacity patented pre-filtration

SYSTEM EQUIPMENT

- Fully equipped electric board
- Stainless steel gauges
- Low Inlet Pressure Shutoff
- High Permeate Pressure Shutoff
- Double BB Pre-filters
- Built-in 2 liter storage tank for permeate
- Concentrate flushing valve
- Permeate drainage valve

OPTIONAL FEATURES

- Drinking water mineralization
- 40 liters, 100 liters and larger permeate
- Crystal DiPro — demineralization set with TDS control



Crystal DiPro



Standard features and Specifications of APRO-MCR-100



MODEL	APRO MCR 100
Permeate Flow, LPH	100
Membrane Quantity	2
Membrane Size, inch	2 x 3013
Max inlet TDS, ppm	1 500
Reduction of salt content, %	Up to 95
System recovery, %	50
Input pressure, bar	1 – 4
Power consumption, Wt	100
Power supply	24VDC (AC/DC adapter is installed)
Dimensions (LxWxH), mm	490 x 470 x 555
Net weight, kg	25
Size (inlet, outlet, concentrate)	3/8" 1/4" 1/4" 3G

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Aquaphor S550, S800 and S1000

WATER SOFTENER

Fully automatic Aquaphor softeners 550, 800 and 1000 provide softened water with exceptionally low salt usage and highly effective iron removal. Aquaphor softeners contain patented high-efficiency Dual Core Valves. Efficient and durable softener tank contains an extra fine mesh of tightly compacted, chlorine resistant ion-exchange resin.



Aquaphor Water Softeners S550, S800 and S1000

BENEFITS

- 10 years: main parts warranty
- Salt savings up to 60%
- Backwashable quartz sand pre-filtration disc iron removal (up to 15 mg/L, water softening)
- Patented, sturdy two-cylinder head valve with low flow resistance.
- NSF certification
- Fast IER regeneration
- Exceptionally small water usage for regeneration
- Easy installation and set-up. Minimum maintenance requirements

ADVANTAGES

- Simultaneous removal of iron, manganese and hardness
- Efficient operation even at very low tap pressure
- Optional KDF pre-filtration disc for hydrogen sulfate removal



Water Conditioner Performance and Specifications

SPECIFICATION	S550	S800	S1000
Maximum Capacity, gram	1 044	1 625	2 061
Maximum Compensated Hardness, mg/l	840	1 200	1 540
Maximum Ferrous Iron Reduction, ppm ¹	10		
Minimum pH, standard units	7		
Water and Ambient Temperature Minimum-Maximum, °C	4° - 49°		
Water Pressure Minimum - Maximum, bar	1.4 - 7		
Maximum Flow Rate to Drain During Regeneration, l/min ²	7.6		
Service Flow Rate (@1.0 bar) drop, l/min ³	20.8		
Pressure Drop (@ 22.7 l/min), bar	1		
Capacity in HE mode, kg salt/gram hardness	0.6 / 392	1.0 / 583	1.1 / 680
HE salt saving mode, min/l	17 / 49	23 / 66	24 / 67
Capacity in HC mode, kg salt/gram hardness	1.8 / 821	3 / 1 223	3.8 / 1 846
High capacity HC mode, min/l	23 / 63	30 / 90	33 / 97.3
Maximum capacity in AU mode, kg/g	3.3 / 1 044	> 5.4 / 1 625	> 6.8 / 2 061
AU maximum capacity mode, min/l	30 / 75	44 / 110	50 / 122
Controller Type	Metered		
Regeneration Method	intelligent, by water meter		
Electrical Rating	12VAC, 50/60 Hz, 0.015 kW/hr		
Plumbing Connections (NPT)	1 inch male (MNPT)		
Minimum Drain Line ID, cm	1.6		
Media Tank Size - (ID x Height), cm	26.7 x 27.7	26.7 x 58.4	26.7 x 66
Height, cm	55.4	70.6	79.5
Footprint, cm	32.2 x 43.2	40.4 x 48.5	40.4 x 48.5
Shipping Weight - approx., kg	35	43	48
Media Type / Amount			
Fine Mesh Resin, l	15	23	28
<p><i>For All Models:</i> Use clean white pellet, cube-style, or solar salt. Drain Line (Minimum I.D.) 1.6 cm Brine and Rinse total – 2.8 l/min Brine Draw – 0.9 l/min Rinse – 1.9 l/min</p>		<p>¹ Iron reduction to 0.3 ppm or less. ² Flow rate of flow must be verified at the end of the drain line. ³ Prolonged operation of a water softener at flow rates exceeding 20.8 l/min may compromise performance. Intermittent flow rate must not exceed 35.2 l/min.</p>	

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

1. The compact cabinet housing.
2. Tightly packed extra fine ion exchange resin provides nearly total removal of iron, manganese and water hardness.
3. Patented sturdy head valve assures lifetime operation.

4. Controller with a big informative screen.
5. Patented uniform distribution of water throughout the whole sorbent volume.
6. The bypass valve.
7. Extremely high-strength tank from injection-molded glass-filled plastic.

APRO-1000-WH (Whole House) system

ECO-FRIENDLY 1000 LPH (WHOLE HOUSE) SOLUTION FOR MULTIPURPOSE WATER PURIFICATION THAT HANDLES ANY TYPE OF INLET WATER

Whole house reverse osmosis water purifier provides soft, pure water, safe from harmful chemicals content.



BENEFITS

- Two booster and recirculating pumps provide fast recirculating flow with up to 50% less savings compared to the standard single pump system
- Patented high-frequency, water saving drainage system
- Fully automatic
- Easy settings via APRO Monitor App
- Extremely low energy consumption
- Permeate recovery up to 99%
- Optional permeate water RO mineralization stage
- Extended membrane life due to membrane anti clogging system
- Remote operational control
- Space saving design
- Modbus RTU connection interface
- Low cost operation
- Feed water TDS up to 4 000 ppm
- Easy maintenance
- High-capacity pre-filtration cartridges

STANDARD SYSTEM EQUIPMENT

- High rejection low energy membranes
- Grundfos pumps (Made in EU)
- Stainless steel seamless pressure vessels
- Fully equipped electrical board
- Feed and permeate conductivity flow pressure control and monitoring
- Storage tank
- 5.5" DIA (Viking) with patented high capacity multistage cartridge



Patented high performance pre-filtration cartridge

OPTIONAL FEATURES

- Additional storage tank with supply pump and UV water sterilizer
- GSM/GPRS/Modem



**optional cabinet*



APRO-1000-WH





MODEL	APRO 1000 WH	APRO 1000 WH*
Operational pressure, bar	7-10	
Permeate Flow, LPH	1 000	
Membrane Quantity	4	
Membrane size, inch	4 × 40	
Max inlet TDS, ppm	2 000	
Reduction of salt content, %	up to 95	
System recovery, %	up to 99	
Power supply	single-phase 230V, 50Hz	
Dimensions, mm (L×W×H)	830 × 520 × 1600	600 × 800 × 1650
Net weight, kg	134	175
Accumulation tank	external, 100 liters	internal, 80 liters
Size (inlet, outlet, concentrate)	1"/½"/½" NPTF (PB)	1"/½"/½" NPTF (PB)

GENERAL INFORMATION

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* optional cabinet

Laboratory water purifier

HIGH PURITY 18 MΩ (MEGAOHMS) WATER



PWD-05 Dispenser



Crystal DI Pro (Mixed bed + hollow fiber MF)



LWM-205 (Double Pass RO + mixed bed + hollow fiber MF)

LWM (LABORATORY WATER MACHINE)-205:

- Patented Double pass RO
- High capacity filter cartridges for any type of inlet tap water
- High capacity microfiltration membrane removes particles larger than 0,1 micron
- Internal 5 L storage tank
- Highly efficient recirculation pump
- Fully automatic TDS measurements and control
- High permeate water recovery
- Robust space-saving design
- High capacity patented pre-filtration
- LCD control panel

CRYSTAL DI PRO (DEMINERALIZATION):

- Designed for deionizing water up to 18 MΩ
- Online TDS control
- Uses high-quality mixed bed resin
- Microfiltration hollow fiber membrane removes particles larger than 0,1 μm
- Low cost PW, UPW
- Long life of mixed bed cartridges

PWD (PURE WATER DISPENSER)-05:

- User-friendly dispenser with the advanced water quality control features. Multiple Positioning.



Specifications*

MODEL	CRYSTAL DI PRO	LWM-205	LWM-205 + CRYSTAL DI PRO
Process	Mixed beds	Double pass RO system	Double pass RO system + mixed beds
Output of pure water	120l/h	50 l/h	50 l/h
Conductivity at 25 °C	0.1-18 MΩ	≤1 MΩ	≤18 MΩ
Minimal Inlet Pressure, bar	0.1	1	
Permeate recovery, %	100	up to 80	
Silica (SiO ₂)		<0.01 ppm	
Heavy metals		<0.01 ppm	

*Filter performance depends on the feed water quality



GENERAL INFORMATION

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APRO-100-DI and APRO-500-DI

APRO-100-DI AND APRO-500-DI WATER DEIONIZATION SYSTEMS. A COMPLETE SOLUTION FROM TAP TO ULTRAPURE WATER DIRECT FROM A POTABLE WATER SUPPLY. THEY ARE IDEAL FOR ANY CASES NEEDING ULTRAPURE WATER. DEIONIZED WATER HELPS MAINTAIN PRODUCT SAFETY AND INTEGRITY

- Fully automated Aquaphor APRO-100-DI and APRO-500-DI RO systems with an advanced drainage system provide steady, reliable ultrapure water supply



APRO-500 DI



USER BENEFITS

- Robust space-saving compact Cabinet design
- Continuous access to high-quality deionized water supply
- Versatile and easy to operate — a built-in Wi-Fi module allows users to connect to the Aquaphor APRO mobile app
- Suitable for research facilities
- Wide variety of applications
- Fully equipped electric board

SYSTEM APRO-500-DI

Standard Equipment

- Grundfos main and dosing pumps
- Fully equipped electric board
- 4.5" (BB) / 5.5" DIA (Viking) with patented high capacity multistage cartridge
- Stainless steel seamless pressure vessels
- Remote control
- Easy settings via APRO Monitor App
- Modbus
- MP controller with TDS/flow/pressure monitoring
- Build in tank with mixed bed ion exchange resin

Additional Equipment

- Antiscalants
- Water softeners Aquaphor S800 / S1000
- Submersible water sterilizer

SYSTEM APRO-100-DI

- Grundfos pumps
- Fully equipped electric board
- 4.5" (BB) with patented high capacity multistage cartridge
- TDS monitoring
- Build in tank with mixed bed ion exchange resin
- Build in storage tank





MODEL	APRO-100-DI	APRO-500-DI
Permeate capacity, LPH	100	500
Permeate accumulation tank volume, liters	200	560
Supply pump flow	max 3 000 LPH	max 3 000 LPH
Supply pressure	max 4 bars	max 4 bars
Mixed bed ion-exchange resin volume, liters	18	50
cabinet dimensions, mm	600 × 800 × 1600	600 × 800 × 1600
Accumulation tank, mm	build in (100l)	1000 × 750 × 1500 (450l)
Power supply	230 V, 50 hz	230 V, 50 hz
Connection Sizing (inlet, outlet, drainage)	1" / ½" / ½" NPTF	1" / ½" / ½" NPTF

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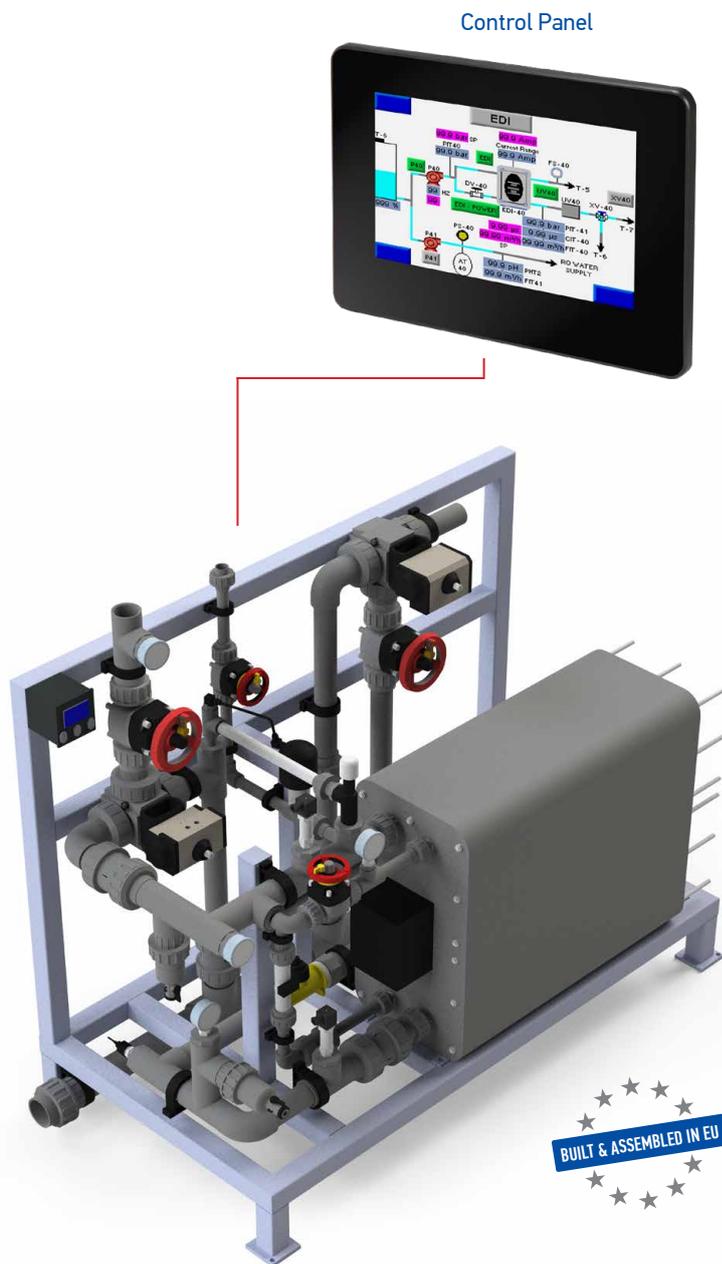
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Electrodeionization system AP-EDI

AP-EDI (ELECTRODEIONIZATION SYSTEM) IS A CHEMICAL-FREE DEIONIZATION. SYSTEM ARE SUITABLE FOR ALL FLOW RATES AND ARE ENERGY AND COST EFFICIENT.



AP-EDI system



BENEFITS

- No dangerous waste
- No chemicals regeneration
- Easy and stable operation
- Space saving design
- Skid Mounted
- High water recovery
- Factory Tested

STANDARD SYSTEM EQUIPMENT

- EDI modules
- Integral Power supply
- Parameters monitoring
- Control panel with PLC
- Equipped with wires and pipes connections
- Stainless Steel Frame



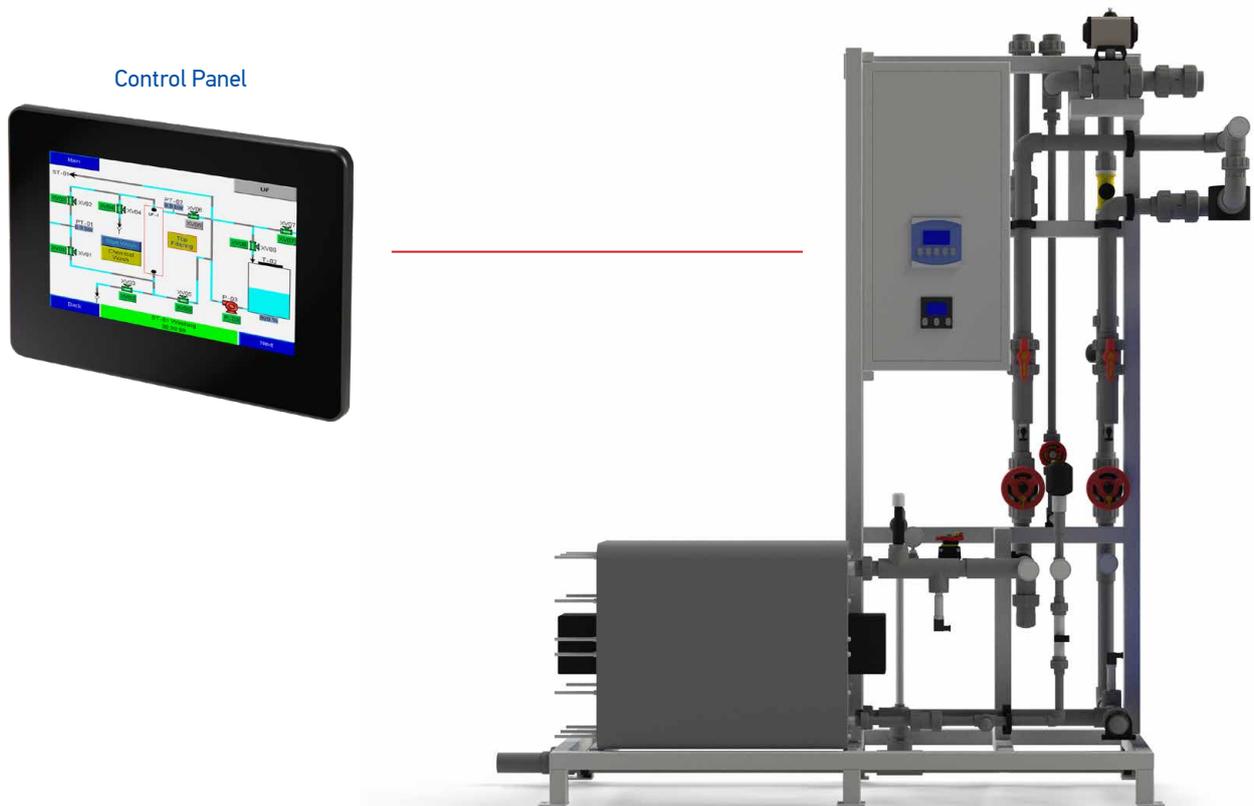
Feed water requirements*

Feed Water Source	RO Permeate
Feed Water Conductivity / Equivalent including CO ₂	< 40 µS/cm
Silica (SiO ₂)	< 1 ppm
Iron, Mn, H ₂	< 0.01 ppm
Total Chlorine (as Cl ₂)	< 0.02 ppm
Hardness (as CaCO ₃)	< 1.0 ppm
Dissolved Organics (TOC) (as C)	< 0.5 ppm
Operating pH Range	4 - 11

* If any of the feed water parameters are not within the limits marked, consult Aquaphor Professional

Standard features of AP-EDI

MODEL	AP-EDI 1000	AP-EDI 3000	AP-EDI 5000
Product flow, LPH	1 000	3 000	5 000
Product quality, MΩ-cm	>10		
Nominal recovery, %	up to 95		
Inlet pressure, bar	2.5-5		
Power supply	single-phase 230V, 50Hz	three-phase 400V, 50Hz	three-phase 400V, 50Hz



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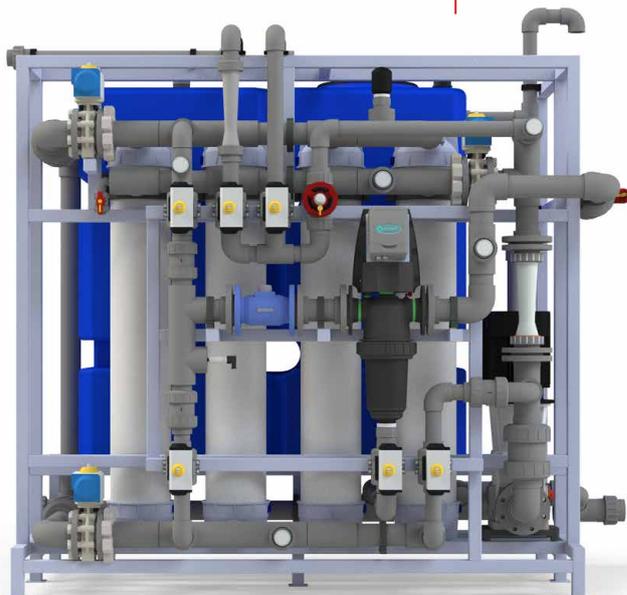
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Ultrafiltration systems AP-UF

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 ³ /h	2-6	12-25
Membrane Quantity	1	4
Membrane surface, m ²	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



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AP-UF-RO systems

SOPHISTICATED PROCESS DESIGN INCORPORATES AN ULTRAFILTRATION PRETREATMENT STAGE WITH THE RO SYSTEM AS A SINGLE SKID “PLUG&PLAY” UNIT FOR ALL TYPES OF FEED WATER, INCLUDING SEA WATER

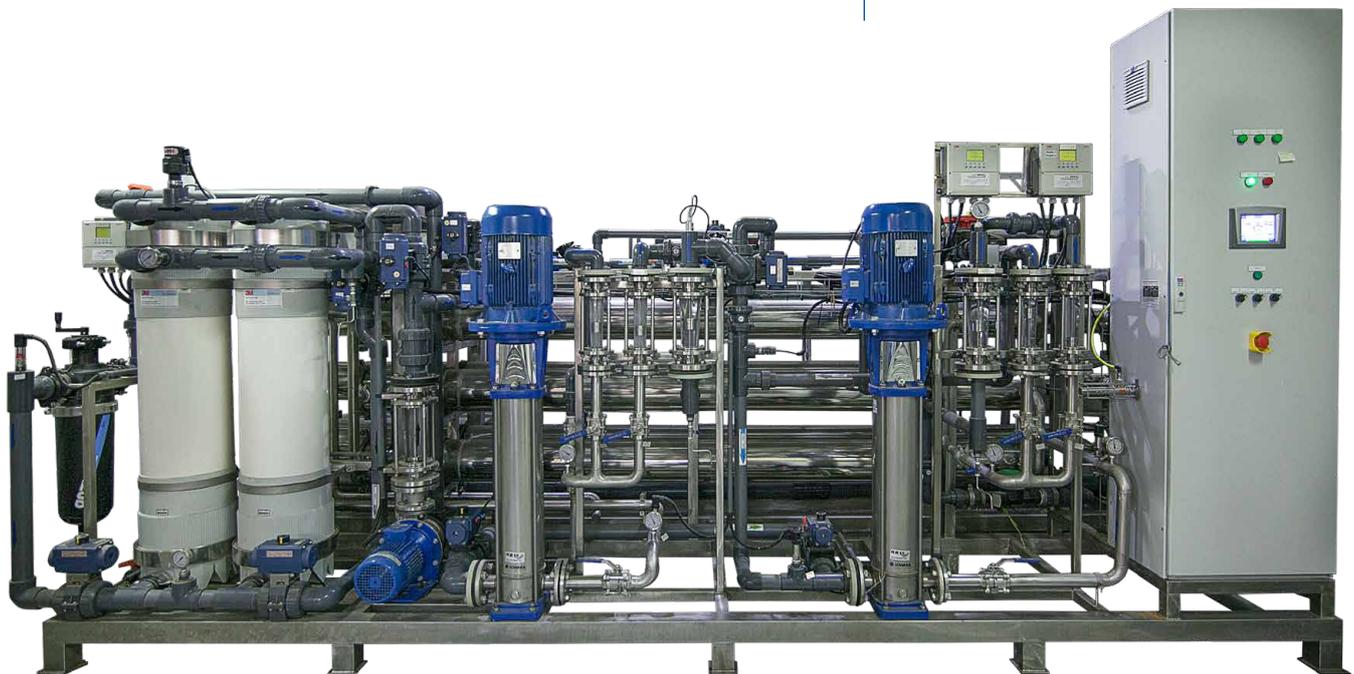
The ultrafiltration pretreatment stage increases the RO system efficiency and permeate water quality in terms of microbiological contaminant removal ensuring constant high-quality product water supply to the client.

The AP-UF microbiological removal capabilities ensure that the RO feed water is sanitized, and that fact reduce the possibility of contamination formation on the RO membrane surface.



BENEFITS

- Improved water quality
- Extended membrane life
- Low-cost operation
- Easy maintenance
- Space saving design
- Low energy consumption booster pump and high flow, low energy recirculation pump



AP-UF-RO system

AP-RO-UF TYPE	MAX INLET TDS
AP-RO-UF Standrad	2 000
AP-RO-UF (HP) High Pressure	4 000
AP-RO-UF (HS) High Salinity	8 000
AP-RO-UF (SW) Sea Water	45 000



MODEL	STANDARD AP-UF-RO
Operational pressure, bar	7-10
Permeate Flow, LPH	1 000 - 15 000
Max inlet TDS, ppm	2 000
Reduction of salt content, %	up to 95
System recovery, %	up to 98
Power supply	three-phase 400V, 50Hz

AP-UF-RO HP (High Pressure)

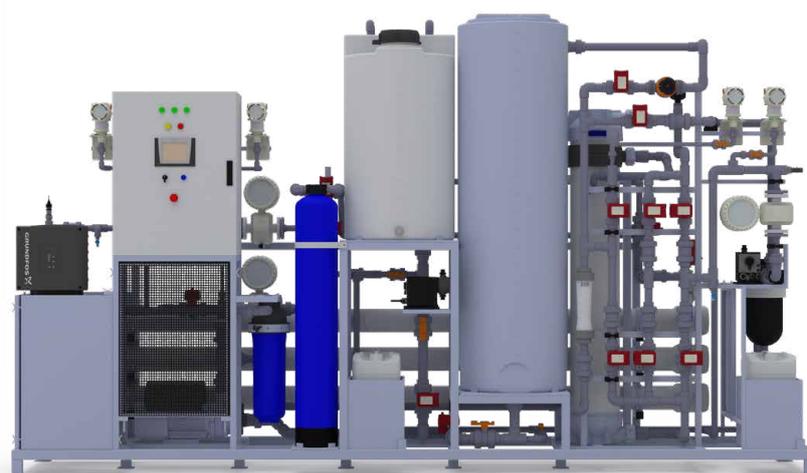
MODEL	AP-UF-RO HP
Operational pressure, bar	12-16
Permeate Flow, LPH	1 000 - 15 000
Max inlet TDS, ppm	4 000
Reduction of salt content, %	up to 99
System recovery, %	up to 95
Power supply	three-phase 400V, 50Hz

AP-UF-RO HS (High Salinity)

MODEL	AP-UF-RO HS
Operational pressure, bar	16-30
Permeate Flow, LPH	1 000 - 15 000
Max inlet TDS, ppm	8 000
Reduction of salt content, %	up to 99
System recovery, %	up to 90
Power supply	three-phase 400V, 50Hz

AP-UF-RO SW (Sea Water)

MODEL	AP-UF-RO SW
Operational pressure, bar	35-50
Permeate Flow, LPH	1 000 - 5 000
Max inlet TDS, ppm	45 000
Reduction of salt content, %	up to 95
System recovery, %	up to 60
Power supply	three-phase 400V, 50Hz



AP-UF-RO (SW) Sea Water

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Containerized (Plug&Play) water (PW, UPW) purification system

FULL CONTAINERIZED WATER TREATMENT SYSTEMS
FOR VARIOUS APPLICATIONS

High-end technology, full redundancy,
water and energy saving design.



KEY FEATURES

- Intelligent automatic operation
- Automatic Cleaning In Place program
- The containerized systems can be suited to almost any water inlet quality , with PW, UPW permeate quality
- The containerized systems are a complete unit for water production at almost any required capacity
- Easy Maintenance
- Low-Cost Operation

THE CONTAINER INCLUDES:

- Full dosing stations
- Ultrafiltration pretreatment systems
- Reverse Osmosis systems — Double pass
- Fully analytical controllers and processes (PLC + HMI)
- EDI units
- Mixed bed resin tanks
- Main control and power cabinets



Containerized drinking water purification plant

The stand-alone drinking water production at any spot in the world, no matter what is the quality of the incoming water. With 13 consecutive purification stages, this mobile solution represents all the processes performed at a drinking water plant, providing safe, soft, and healthy to drink water.

User-friendly plug-and-play installation with minimized maintenance costs. Operated without professional support. It can be equipped with a solar panel and satellite connection. Remote control through encrypted internet traffic allows the monitoring of all system indicators from anywhere in the world.



A detailed description of water purification stages

The multistage water purification stages inside the AQUAPHOR mobile purification plant includes:

- Submersible screen filter with the high-efficiency built-in suction pump and automatically backwashable 1 mm prefilter. Up to 20 meters of height difference between the submersible filter and the containerized system.
- Flocculation stage with the automatic computer-controlled Grundfos dosing station
- Hydrocyclone for filtering out large particulates
- Sedimentation tank with the automatic electrochlorination* and filtering out fine precipitate
- Automatic backwashable 200 microns screen filter
- Activated carbon with silver to remove active chlorine and organics.
- 5 microns polypropylene melt-blown cartridge filtration stage
- Reverse osmosis 2000 LPH (liter per hour) with the automatic chemical CIP (clean in place)** and automatic antiscalant dosing station
- Remineralization
- Permeate collection station (800 L) with the automatic chlorination
- Automatic ultraviolet recirculation
- 12. 2 automatic filling stations for water (25Lcontainers)



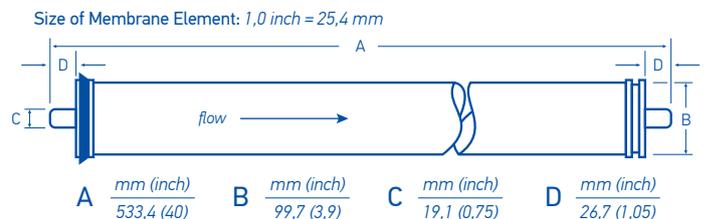
Aquaphor Professional RO Membrane Elements (XLP, LP series)

LP (low pressure) series of aromatic polyamide compound membrane elements has the following properties of low-pressure operation, high permeate flow and excellent desalination and is applicable to desalination of brackish water. Besides, it is particularly applicable to fabrication of high-purity water for the electronics industry and the electric power industry owing to its excellent performance in removing soluble salts, TOC, SiO₂, etc.

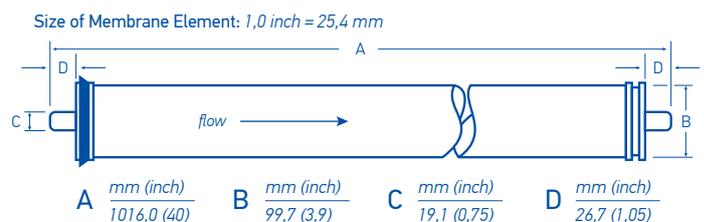
XLP series of extremely low pressure aromatic polyamide compound membrane element can work under ultra low pressure to reach as high permeate flow and salt rejection as regular low-pressure membrane element can, and is applicable to desalination of surface water and underground water. It operates under approximately half the operating pressure of regular low-pressure composite membrane, and achieves a salt rejection rate of up to 98%, which can decrease the investment costs for such relevant facilities as pump, piping, and container, etc. and the operating cost for the RO system, thus increasing the economic efficiency.



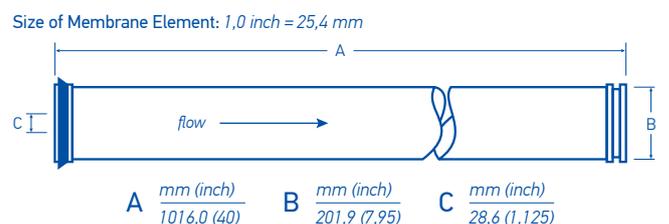
LP21-4021



LP21-4040



LP22-8040



MODEL	LP-4021	LP-4040	LP-8040	XLP-4021	XLP-4040	XLP-8040
Active Membrane Area, ft2 (m ²)	36 (3.3)	90 (8.4)	400 (37.2)	36 (3.3)	90 (8.4)	400 (37.2)
Average Permeate GPD, (m ³ /d)	950 (3.6)	2 400 (9.1)	10500 (39.7)	1 000 (3.78)	2 000 (7.6)	12 100 (45.7)
Stable Rejection Rate, %	99.5			98		
Min. Rejection Rate, %	99.3			97.5		

Testing Conditions

Testing Pressure	225 psi (1,55 MPa)
Testing Solution Temperature	25 °C
Concentration of Testing Solution (NaCl)	2 000 ppm
pH value of Testing Solution	7,5
Recovery Rate of Single Element	15%

Operation Limits & Conditions

Max. Working Pressure	600 psi (4,14 MPa)
Max. Volume of Feed water	75 gpm (17 m ³ /h)
Max. Temperature of Feed water	45°C
Max. Feed water SDI ₁₅	5
pH Range of Feed water during Continuous Operation	2 ≈ 11
pH Range of Feed Water during Chemical Cleaning	1 ≈ 13
Residual Chlorine Concentration of Feed Water	< 0,1 ppm
Max. Pressure Drop of Single Membrane Element	15 psi (0,1 MPa)
Max. Pressure Drop of Single Pressure Vessel with Six RO Membranes	50 psi (0,34 MPa)

NOTICE

1. All data and information provided in this manual have been obtained from long-term experiments by the manufacturer. We confirm the effectiveness and accuracy of the data provided. The manufacturer assumes no liability for any aftermath caused by the user's failure to abide by the conditions specified in this manual regarding the use and maintenance of membrane products. It is strongly recommended that the user strictly follows the designed use and maintenance requirements and keeps relevant records.
2. The permeate value listed in the table is an average value. The permeate flow of a single membrane element has a tolerance not exceeding ±15% of the nominal value.
3. All wet-type membrane elements have been strictly tested before leaving the factory and have been treated with 1.0% sodium hydrogen sulfite (10% glycerin antifreeze required in winter) for storage purposes and then sealed in a plastic vacuum bag, and further packed in cardboard boxes.
4. The membrane used should remain wet after its use; In long term suspensions, to prevent the breeding of microbes, soaking the membrane elements with a protective solution is highly recommended, the solution (prepared with RO filtered water) contains 1.0% sodium hydrogen sulfite (foodstuff-purpose).
5. Operate low pressure flushing for 15-25 minutes during the initial use, high pressure flushing for 60-90 minutes when first using (permeate volume no less than 50% of the designed volume). Discard all permeate and condensed water produced during the first one hour after system start-up.
6. During storage and operation, it is strictly prohibited to add any chemical medicament that may be harmful to the membrane elements. In case of any violation in the addition of the chemical medicament, manufacturer assumes no liability for any damages incurred.
7. Along with technical development and product renovation, all information will be subject to modification without prior notification.



APRO-HP systems

THE UNIQUE FEATURES OF OUR APRO-HP SYSTEMS ALLOW FOR A CONSISTENT 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 ranging 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 pretreatment
- Polish DI tanks
- Integrated *ABB* PLC and colour touch screen display with remote control kit
- Antiscalant



Standard features of 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	1 000	1 500	2 000
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

Specifications of 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	1 000	1 500	2 000
Reduction of salt content, %	Up to 99,7%						
System recovery, %	45-85%						
Membrane 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
Size (inlet, outlet, concentrate)	3/4" / 3/4" / 3/4" NPT(PB)		1" / 3/4" / 3/4" NPT (PB)				

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APRO-HS systems

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

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

- 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 ranging 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 pretreatment
- Polish DI tanks
- Integrated *ABB* PLC and colour touch screen display with remote control kit
- Antiscalant



Standard features of APRO-HS



MODEL	APRO HS 250/500	APRO HS 1000	APRO HS 1500	APRO HS 2000
Permeate Flow, LPH	150/300	600	1000	1500
Membrane Quantity	1/2	4	6	8
Max inlet TDS, ppm	10 000	10 000	10 000	10 000
Flush Valve	Yes	Yes	Yes	Yes

Specifications of APRO-HS

MODEL	APRO HS 250/500	APRO HS 1000	APRO HS 1500	APRO HS 2000
Production of clean water, LPH	150/300	500	1000	1500
Reduction of salt content, %	95 - 99			
System recovery, %	25 - 85			
Membrane type	1/2 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
Size (inlet, outlet, concentrate)	1" / 3/4" / 3/4" NPT (PB)			

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APRO-CT systems

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

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

- 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 colour touch screen display with remote control kit
- UF pretreatment
- *Nalco* antiscalant



reverse osmosis system APRO-CT 4000

SYSTEM EQUIPMENT

- Various Product sizes ranging 3000-6000 LPH
- Stainless steel frame and equipment panel
- Stainless steel 316 high pressure piping
- 5 micron prefiltration
- 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
- Antiscalant



Standard features of 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*

GENERAL INFORMATION

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

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

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

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

APRO-HC systems

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

APRO-HC Reverse Osmosis product line for consumers with large pure water consumption requirements

- 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 colour touch screen display with remote control kit
- UF pretreatment
- *Nalco* antiscalant



SYSTEM EQUIPMENT

- Various Product sizes ranging 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
- Antiscalant



reverse osmosis system APRO-HC-12000



Standard features of 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

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

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

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

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

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.