



PRODUCT CATALOGUE

Water Treatment Catalogue
2023 V.1

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APRO Black / SST Series Reverse Osmosis



Black series, uses a painted steel frame which makes it more cost effective, and makes it more suitable for environments without strict requirement or corrosive factors involved.

Reverse osmosis from AQUAPHOR, is a water purification process that uses partially permeable membranes to remove unwanted molecules, particles, salt, solutes or viruses from drinking water.

Reverse osmosis can thus remove many types of dissolved and suspended chemicals as well as biological substances, bacteria and many virus types from the water. It is usually recommended to add mineralization as Reverse Osmosis removes everything.

SST Series, uses Stainless Steel Frame which makes it suitable for the industry with strict requirements, and moist environments.





Flow Rate	150-1000 l/h*
Min-Max Temperature	5°C-35°C
Recovery ratio	75%-99%
Salt Reduction	Up to 95%
max. Inlet TDS	2000 ppm
Operational pressure	7-10 bar
Connection	3/4" , 1/2" , 1/2" NPTF
Power Supply	230VAC 50Hz

Technical Features

Model	APRO Black 150	APRO Black 250	APRO Black 300	APRO Black 500	APRO Black 750	APRO Black 1000
Permeate flow, l/h	150	250	300	500	750	1000
Membrane Quantity	1	1	2	2	3	4
Membrane Size, inch	1x21	1x40	2x21	2x40	3x40	4x40
max. inlet TDS, ppm	2000					
Reduction of salt content	Up to 95%					
System Recovery	75%-99%					
Membrane type	1x4021	1x4040	2x4021	2x4040	3x4040	4x4040
Connections (inlet, outlet, concentrate)	3/4", 1/2", 1/2" NPTF					
Power Supply	230VAC, 50Hz					
Dimensions, mm	510x390x725	555x390x1210	595x390x845	630x390x1270	765x390x1270	830x520x1300
Net Weight, kg	38,5	47,5	49,5	58,5	72	94

Technical Features

Model	APRO SST 150	APRO SST 250	APRO SST 300	APRO SST 500	APRO SST 750	APRO SST 1000
Permeate flow, l/h	150	250	300	500	750	1000
Membrane Quantity	1	1	2	2	3	4
Membrane Size, inch	1x21	1x40	2x21	2x40	3x40	4x40
max. inlet TDS, ppm	2000					
Reduction of salt content	Up to 95%					
System Recovery	75%-99%					
Membrane type	1x4021	1x4040	2x4021	2x4040	3x4040	4x4040
Connections (inlet, outlet, concentrate)	3/4", 1/2", 1/2" NPTF					
Power Supply	230VAC, 50Hz					
Dimensions, mm	510x390x725	555x390x1210	595x390x845	630x390x1270	765x390x1270	830x520x1300
Net Weight, kg	38,5	47,5	49,5	58,5	72	94





APRO HS / HP Series Reverse Osmosis



The HS-Series system allow a consistent production of high quality water out of high salinity water sources.

Equipped with reliable anti corrosion components, HS-series features robust space-saving design, long lasting operation, and easy maintenance.

Reverse Osmosis (RO) removes even the smallest amounts of impurities in the water.

RO Systems remove flouride, cysts, bacteria, virusses, antibiotics and hormones. The best choice when you have critical requirements for your water quality.

The HP Series systems are compact commercial reverse osmosis units that allow a consistent production of high-quality water with low energy consumption and reduced operational costs.





HS Series Flow Rate	500-2000 l/h*
HP Series Flow Rate	250-2000 l/h*
Min-Max Temperature	5°C-35°C
Recovery ratio	Up to 85%
Salt Reduction	Up to 99%
HS Series max. Inlet TDS	10000 ppm
HP Series max. Inlet TDS	4000 ppm

Technical Features

Model	APRO HS 500	APRO HS 1000	APRO HS 1500	APRO HS 2000
Permeate flow, l/h	500	1000	1500	2000
Membrane quantity	2	4	6	8
Max inlet TDS, ppm	10.000	10.000	10.000	10.000
Clean water, l/h	500	1000	1500	2000
Power Supply	380V, 50Hz			
Weight	110	199	211	254
Salt rejection	98,5%			
System recovery	30%-90%			
Flush valve	yes			
Dimensions, mm	1150 x 750 x 1390	1150 x 750 x 1390	2170 x 800 x 1790	2170 x 800 x 1790
Connections (inlet, outlet, concentrate)	1" / ¾" / ¾" NPT (PB)			

Technical Features

Model	RO-HP 250	RO-HP 500	RO-HP 750	RO-HP 1000	RO-HP 1500	RO-HP 2000
Permeate flow, l/h	250	500	750	1000	1500	2000
Membrane quantity	2	2	3	4	6	8
Max inlet TDS, ppm	4000	4000	4000	4000	4000	4000
Production of clean water, l/h	250	500	750	1000	1500	2000
Reduction of salt content	Up to 99,7%					
System recovery	50%-95%					
Membrane's type	2x4021 / 1x4040	2x4040	3x4040	4x4040	6x4040	8x4040
Power supply	220V, 50Hz	380V, 50Hz				
Dimensions, mm	600 x 500 x 1600	1150 x 750 x 1390			2170 x 800 x 1790	
Net weight, kg	80	109	112	127	154	230
Connections (inlet, outlet, concentrate)	¾", ¾", ¾" NPT(PB)	1", ¾", ¾" NPT(PB)				





APRO HC / Stack (Monoblock) Series Reverse Osmosis



HC Series, is a high volume reverse osmosis system for large scale applications. This product line is the solution for industrial applications and municipal water preparation, and can also be supplied as a containerized unit.

Depending on circumstances and needs there are two types of high volume reverse osmosis systems - HC (High Capacity) Series and Stack (Modular) series.

Innovative RO monoblocks allows to set multi-purpose water purification units into high capacity multiarray with up to 8 monoblocks united under one master control board.





HC Series Flow Rate	3000-20000 l/h*
HP Series Flow Rate	3000-6000 l/h*
Min-Max Temperature	5°C-35°C
Recovery ratio	Up to 95/98%
Salt Reduction	Up to 99/95%
HC Series max. Inlet TDS	6000 ppm
HP Series max. Inlet TDS	2000 ppm

Technical Features						
Model	RO-HC 3000	RO-HC 6000	RO-HC 9000	RO-HC 12000	RO-HC 15000	RO-HC 20000
Permeate flow, l/h	3000	6000	9000	12000	15000	20000
Membrane quantity	3	6	9	12	15	20
Max inlet TDS, ppm	6000	6000	6000	6000	6000	6000
Clean water, l/h	3000	6000	9000	12000	15000	20000
Power Supply	380V, 50Hz					
Power Consumption	6,5kW, 16A	8,5kW, 20A	12,5kW, 25A	19,5kW, 40A	-	-
Salt rejection	98%-99,5%					
System recovery	50%-95%					
Flush valve	yes					
Pre-filter Quantity	3xLD0520	4xLD0520	7xRO.Z 0540	14xRO.Z 0540	14xRO.Z 0540	14xRO.Z 0540
Dimensions, mm	3705x2115x1200	3705x2115x1200	3840x1830x1400	3920x1870x1400	5730x1870x1400	5730x1870x1400
Connections (inlet, outlet, concentrate)	3/4" , 3/4" , 3/4" NPT(PB)		1" , 3/4" , 3/4" NPT(PB)			

Technical Features			
Model	APRO-3000	APRO-4000	APRO-6000
Permeate flow, l/h	3000	4000	6000
Membrane quantity	3	4	6
Membrane size, inch	8 x 40		
Max inlet TDS, ppm	2000		
Production of clean water, l/h	3000	4000	6000
Reduction of salt content	Up to 95%		
System recovery	Up to 98%		
Power supply	Three-phase 400V, 50Hz		
Dimensions, mm	3640x840x1150	2800x840x1150	2800x840x1150
Net weight, kg	236	287	389
Connections (inlet, outlet, concentrate)	2" , 1" , 1"		





APRO DI Rack Reverse Osmosis



APRO-100-DI.

Water deionization systems in cabinet housing that provide a complete solution from tap to ultrapure water direct from a potable water supply and are ideal for any cases when ultrapure water is required. Deionized water helps to maintain product safety and integrity.

Fully automated AQUAPHOR APRO-100-DI and APRO-500-DI RO systems with advanced drainage system provide a steady ultrapure water supply.

APRO-500-DI.



Technical Data



100/500-DI Flow Rate	100/500 l/h*
Resin Volume	18-50 L
Supply pump flow max.	3000 l/h
Connection	1" / ½" / ½" NPTF
Power supply	230V, 50Hz

Technical Features

Model	APRO-100-DI	APRO-500-DI
Permeate capacity, LPH	100	500
Permeate accumulation tank volume, liters	200	560
Supply pump flow	Max 3000 LPH	
Supply pressure	Max 4 bar	
Production of clean water, l/h	3000	4000
Mixed bed ion-exchange resin volume, liters	18	50
Accumulation tank, mm	build in (100l)	1000 × 750 × 1500 (450l)
Power supply	230V, 50Hz	
Dimensions, mm	600x800x1600	
Connection Sizing (inlet, outlet, drainage)	1" / ½" / ½" NPTF	





Membranes - Reverse Osmosis

Reverse osmosis membranes varies in size and types.

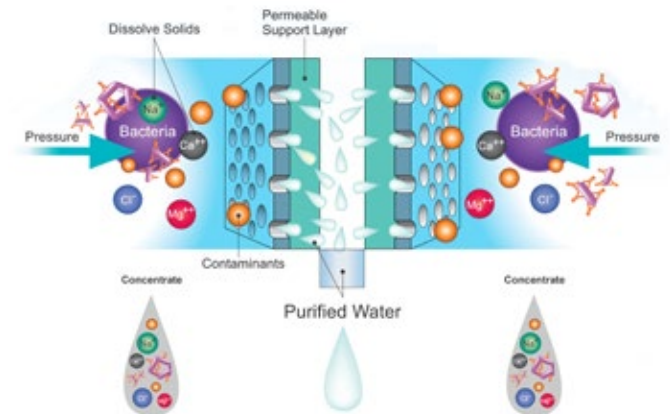
Aquaphor Membranes are of high quality and have been long term tested.



The magic of any Reverse Osmosis system is its circuitry in conjunction with its membranes. These membranes varies in size, permeate capacity, pressure capacity and working pressure amongst other features.

Despite many different types of reverse osmosis membranes with special production processes, they primarily all of them have same basic functionality, as illustrated in the image.

Typical Reverse Osmosis Membrane Function





See table below for data

Technical Features						
Model	LP21-4021	LP21-4040	LP22-8040	ULP22-8040	XLP11-4021	XLP11-4040
Testing pressure	15,5 bar			10,3 bar	6,9 bar	
Testing solution temperature	25 °C					
Concentration of solution	2000 ppm			1500 ppm	500 ppm	
pH of Testing solution	7,5					
Recovery rate of single element	8%	15 %	15%	15 %	8 %	15 %
Max. work. pressure	41,3 bar					
Max. volume of feed water	3,6 m3/h		17 m3/h		3,6 m3/h	
Max. temp. of feed water	45 °C					
Max. feed water SDI*	5					
pH range of feed water during continuos op.	2 ≈ 11			3 ≈ 10		
pH range of feed water during chemical cleaning	1 ≈ 13			2 ≈ 12		
Residual chlorine concentration of feed water	< 0,1 ppm					
Max. pressure drop of single membrane element	1 bar					
Max. pressure drop of singe pressure vessel with sex RO membranes	3,4 bar					





Softeners - Water Softener systems

A550/800/1000 Aquaphor softeners



Softeners - Water Softener systems

There are different types of Water softeners to choose from, whether you need it for private use or professionally:

- Softeners from Aquaphor for pretreatment of water, without the need of drinking water approval.
- Smartflow DUO softeners for pretreatment of water, without the need of drinking water approval.
- Smartflow softeners, with RISE drinking water approval, for private and industry use - can be serial or parallel connected for higher flow or capacity.

With a softening system from Filter-Online, you get a reliable system that ensures that limescale is no longer the worst enemy in the household.

When you have installed a Smartflow water softener in your home, you will in return get extra help with cleaning. You do this, as the ultra-soft water does not leave large traces of lime behind, as if the water had not been softened.

Smartflow 125/250 water softeners comes with RISE drinking water approval and is well suited for private and small to medium HoReCa use.

If drinking water approval is not needed, like for use in large industry dishwashers or washing machines, Smartflow DUObloc can be used due to its larger capacity.

Smartflow softeners





See table below for data

Technical Features							
Model	Flowrate l/m	Salt Capacity	Resin Capacity	Connections	Dimensions mm	Weight kg	Drinking water approval
A550 - Aquaphor	20,8		15L	1" MNPT	554 x 322 x 432	35	-
A800 - Aquaphor	20,8		23L	1" MNPT	795 x 404 x 485	43	-
A1000 - Aquaphor	20,8		28L	1" MNPT	795 x 404 x 485	48	-
Smartflow S100	25	25kg	10L	3/4"	200 x 400 x 670		✓
Smartflow S200	25	50kg	21L	3/4"	200 x 400 x 1130		✓
Smartflow 125	25	35kg	11L	3/4"	290 x 480 x 670		✓
Smartflow 250	33	75kg	22L	3/4"	290 x 480 x 1130		✓
Smartflow DUObloc 50	42	on request					-
Smartflow DUObloc 75	68						-
Smartflow DUObloc 100	77						-
Smartflow DUObloc 150	97						-
Smartflow DUObloc 200	97						-
Smartflow DUObloc 250	97						-





UV Desinfection - Ultraviolet Light Systems



Ofte kaldet UV belysning, desinfektion med UV er en nedbrydning af bakterier og andre mikroorganismer, så de ikke kan inficere eller formere sig efter belysning.

UV lys bruges i en lang række applikationer, og kan leveres i opsætning af rustfri stål eller polypropylen.

For at UV systemer udnyttes optimalt, skal man have en god forfiltrering. Bakterier og andre mikroorganismer kan skyggegemme bag partikler, og passere igennem, helt uden at blive belyst af UV hvis man ikke har en god forfiltrering.

UV Systemer findes i SS og PP versioner - Stainless Steel og PolyPropylene.

Her er det mediet der som regel er afgørende for hvilken type man har brug for.

Udover kontrol boksens størrelse er der også forskellige tilslutninger.





See table below for generic data.
Dimensions can be seen on
datasheet or be requested.

Technical Features				
Model	Max. Flowrate m3/h	Connections	Power	Material
1- 75 PP	5	1½" BSP	0,08 kW	Polypropylene
1-220 PP	34	DN80	0,20 kW	Polypropylene
1-350 PP	54	DN100	0,40 kW	Polypropylene
2 - 75 PP	14	3" BSP	0,16 kW	Polypropylene
3 - 75 PP	24	3" BSP	0,24 kW	Polypropylene
3-220 PP	161	DN150	0,75 kW	Polypropylene
3-350 PP	258	DN150	1,10 kW	Polypropylene
4 - 75 PP	36	3" BSP	0,32 kW	Polypropylene
4-220 PP	247	DN150	1,00 kW	Polypropylene
4-350 PP	396	DN150	1,50 kW	Polypropylene
6-220 PP	387	DN150	1,40 kW	Polypropylene
6-350 PP	626	DN200	2,30 kW	Polypropylene
8-220 PP	589	DN200	1,90 kW	Polypropylene
8-350 PP	960	DN250	3,00 kW	Polypropylene
12-350 PP	1520	DN250	4,50 kW	Polypropylene
16-350 PP	2173	DN300	6,00 kW	Polypropylene
1-75 SS	6	1½" BSP	0,08 kW	SS 316L
1-220 SS	37	DN80	0,20 kW	SS 316L
1-350 SS	59	DN100	0,40 kW	SS 316L
3-220 SS	174	DN150	0,70 kW	SS 316L
3-350 SS	278	DN150	1,10 kW	SS 316L
4-220 SS	266	DN150	1,00 kW	SS 316L
4-350 SS	429	DN150	1,50 kW	SS 316L
6-220 SS	417	DN200	1,40 kW	SS 316L
6-350 SS	675	DN200	2,30 kW	SS 316L
8-220 SS	635	DN200	1,90 kW	SS 316L
8-350 SS	1035	DN250	3,00 kW	SS 316L
12-350 SS	1630	DN250	4,50 kW	SS 316L
16-350 SS	2340	DN300	6,00 kW	SS 316L
UV 4	4 (l/min)	1/4" BSP	10W	StainlessSteel
UV 8	8 (l/min)	1/2" BSP	14W	StainlessSteel
UV 30	30 (l/min)	3/4" BSP	29W	StainlessSteel
UV 57	57 (l/min)	1" BSP	65W	StainlessSteel
UV 132	132 (l/min)	2" BSP	2x65W	StainlessSteel
UV 250	250 (l/min)	2" BSP	3x85W	StainlessSteel



Nordic Filtration

At www.nordicfiltration.com you will find a wide selection of filtration products ready for you to order.

Nordic Filtration offers a wide selection of filtration products for water treatment. We have stock in Denmark from where we distribute all of our products to Scandinavia and the the rest of the world.

You can buy our products on local websites or by contacting us by phone or e-mail. Information about our products as well as brochures and manuals can be found on our website (www.nordicfiltration.com).

We can adapt all of our filtration products to your needs, and we offer visits from our consultants in order to find the right solution for you.

