





ULTRAFILTER WATER TREATMENT CATALOGUE

WWW.ULTRA-FILTER.COM



WATER TREATMENT

Water treatment	91	Reverse Osmosis - SST	97
Water Softener	92	Reverse Osmosis - HP	98
Water Softening - DUO	93	Reverse Osmosis - HS	99
UV Desinfection	94	Reverse Osmosis - DI	100
Reverse Osmosis - black	96	Reverse Osmosis - Stack	101

Icon Guide



Material(s)

For filter elements this is describing the filter media.



Surface Roughness

The roughness of the filter housing surface. Described in µm.



Inlet/Outlet Connection

Refer to the table if the filterhousing has various connection sizes.



End Cap

See guides for overview of end caps.



O-ring Material Describes the standard o-ring. We can supply different materials.



Certificate(s)

FDA or PED? You find any certificate here.



Dimensions

For filter elements this describes the length.



Diameter

The cartridge diameter of filter elements.



Pressure

Recommended max. pressure unless otherwise described.



Temperature

Recommended max. temperature unless otherwise described.



Flow

Recommended max. flow unless otherwise described.



Filtration Rate

The micron rating of the filter element.



Effectivity

Describes the retention of particles equal to the micron rating.



Differential Pressure

Recommended max. diff. pressure unless otherwise described.



Dew Point

Describes the achievable dew points.



THE SCANDINAVIAN FILTRATION PARTNER

Ultrafilter Scandinavia offers a wide selection of filtration products for compressed air, liquids, water and gas. We have stock in Denmark and from here we distribute all of our products to Scandinavia and the Baltic countries.

Ultrafilter Scandinavia is a part of the Ultrafilter Group. Production is in Germany and we have several subsidiaries in Europe.

From all locations, you can buy our products on local websites. Information about our products as well as brochures and manuals, can be found on our website. 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.

We have a huge selection of compressed air filters, that are compatible with compressed air systems of all brands. We also offer compressed air dryers, adsorption and membrane dryers in addition to auto drain compressors, compressed air tanks and oil-water separators. Additionally, we have sterile compressed air filters for the food and beverage applications.

We offer all kinds of filters for liquids such as bag filters, cartridge filters and membrane filters, with industrial applications, such as coolant. We have a great deal of experience with filter solutions for the food and beverage industry, and our products are approved by EC 1935/2004 as well as FDA. We also carry a selection of filters for drinking water.

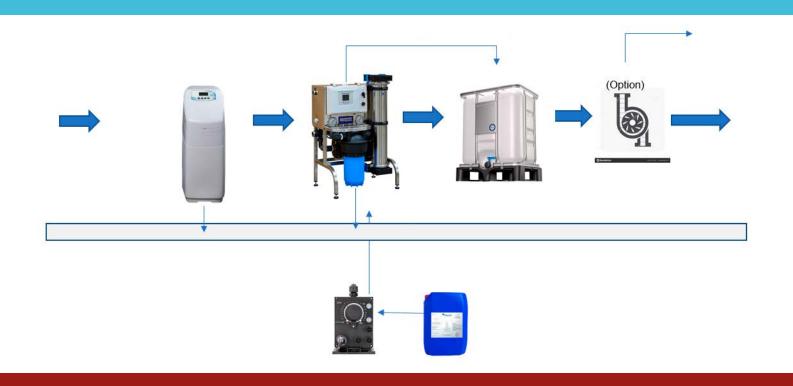
We have one of the best generators for manufacturing nitrogen and oxygen and for filtering all kinds of gas like methane and bio gas.

Ultrafilter Scandinavia has a wide selection of reverse osmosis-systems. Sizes that fits all types of companies.

Ultrafilter designs and manufactures components and systems for the purification of compressed air, technical gases water and liquids.







Water Softener

Smartflow 125 / 250





Flow Controlled Regeneration

Our water softener are designed to ensure the reliability of soft water in households, with low salt alarm. The flow controlled regeneration ensures water usage only when necessary - lowering water usage and expenses.

Lots of savings

A softener is often called "the self-paying device".

You will find that your savings on soaps, detergents, cleaning aids and personal care products help your family's household budget. And if you put a price on your time, you will be most satisfied with the time your new family servant saves.

Technical Data



Smartflow 125: 25-35 I/min Smartflow 250: 25-35 I/min



¶° 3°C ... 40°C



Dimensions: Smartflow 125 - 29x48x67cm

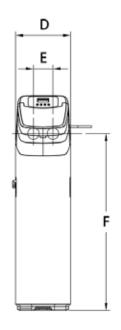
Smartflow 250 - 29x48x113cm

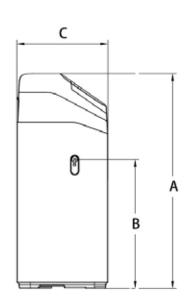
- Bypass 3/4"
- 2 Connection pipes 1m, 3/4"
- Digital Display
- Power req.: 230v/12v
- 11L Resin (S125), 22L Resin (S250)
- Salt cap. S125: 35kg
- Salt cap. S250: 75kg
- Weight: 25kg (S125), 40kg (S250)

Benefits

- Flow Controlled regeneration
- Water saving
- Slim width space saving design
- **Overfloat protection**

Dimensions (mm)	Smartflow 125	Smartflow 250
Α	675(±3)	1134 (±3)
В	350 (±2)	680 (±2)
С	480 (±2)	480 (±2)
D	290 (±2)	290 (±2)
E	50,8 (±0,5)	50,8 (±0,5)
F	471 (±3)	931 (±3)









Technical Data

64-120 I/min

|∬**°** 3°C ... 43°C

2bar Min. in pressure Max. in pressure 7bar 43°C Max. temperature

Duo resin capacity 10L - 75L

Connection: in/out 1" Connection: drain 1/2" Power req.: 230v-50hz Power rating: 5W



Smartflow Duo

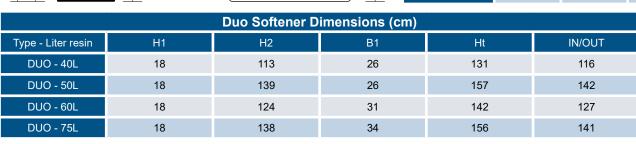
The Smartflow Duo is build for higher flow than ordinary water softeners due to its option of double resin housing and large brine tank. Our water softener are designed to ensure the reliability of soft water in households.

Lots of savings

A softener is often called "the self-paying device". You will find that your savings on soaps, detergents, cleaning aids and personal care products help your family's household budget. And if you put a price on your time, you will be most satisfied with the time



Brine Tank Dimensions (cm)						
Type - Liter resin	liter	B2	Н3			
DUO - 40L	~155	48	86			
DUO - 50L	~155	48	86			
DUO - 60L	~155	48	86			
DUO - 75L	~286	68	79			



Duo parallel setup MSoftener Drain 40mm Brine Tank B2 IN/OUT Ht H2 нз

UV DISINFECTION

MonoRay





Technical Data

Stainless steel or Polypropylene

8-240 m³/h

10 bar

∬°c 80°C

Microorganisms in the water, whether bacteria, algae, parasites or many more, can cause trouble for operations and usage of the water, and the safest way to stop growth and migration of the organisms is UV treatment.

Through UV systems, we can cover most tasks from water to turbid liquids, foodstuff, beverages or viscous liquids. We cover tasks from small supplies to very large systems, and all our systems are available in FDA approved stainless steel for general applications or polypropylene for corrosive environments.

All our single- and multi lamp UV systems use the internationally acclaimed Ultratherm UV lamps.

Our UV systems come with a number of options, including cabinet mounting for your convenience, a large touchscreen for easy interaction, or an automatic performance and event log.

Other options include:

- UV sensor
- Fully automatic cleaning system
- Automatic lamp dimming (power save mode)
- Flow control

MonoPov	Flow rate m³/h		Connection	Power	
MonoRay	PP	SS	in/out	Power	
1-75	8	10	1½" BSP	0,08 kW	
1-220	35	38	DN80	0,25 kW	
1-350	53	58	DN100	0,4 kW	
1-440	62	68	DN100	0,5 kW	
3-220	100	110	DN125	0,75 kW	
4-220	130	150	DN150	1,0 kW	
4-350	210	240	DN150	1,5 kW	

PP = Polypropylene. SS = Stainless Steel.

UV DISINFECTION

Applications





Drinking Water

The treatment of drinking water is vital to protecting public health. Common threats are chlorine-resistant microorganisms such as Cryptosporidium and Giardia as well as fecal organisms such as E. coli and numerous other pathogens. Such microorganisms constantly pose a potential health risk in unprotected drinking water. Drinking water related diseases can be fatal and the associated costs can add up to billions of dollars worldwide.

Wastewater

In order to protect the natural environment (rivers, lakes, beaches, coastal areas) increasingly stricter regulations have been implemented to limit release of pathogenic microorganisms originating from domestic wastewater. Therefore, many wastewater utilities have adopted ultraviolet (UV) as the most appropriate treatment option as opposed to chemical disinfection.





Aquaculture

Millions of salmon, sturgeons, eels, turbot, sea bass etc. are produced in aquaculture systems worldwide. Here UV systems have been chosen to increase security from infection diseases thereby protecting millions of invested dollars. Diseases such as Infectious Salmon Anaemia (ISA) are prevented through the use of UV systems. This have given the respected fish farms security and reassurance that the fish is not infected. The UV systems are also easy to maintain, the lamp lifetime is 16.000 hours guarantied and they do not take up time in the daily routines.



Black-Series





The APRO-Black series systems are compact Home and Commercial reverse osmosis units that allow a consistent production of high-quality water with low energy consumption and reduced operational cost.

Equipped with the highest quality components, APRO-Black series features robust space-saving design, easy maintenance, and quiet operation.

System equipment

- Various product Sizes 150 1000 l/h
- Low pressure membranes
- Fully equipped electric board with pump protection
- MP controller with TDS/Flow/Pressure monitoring
- BB (Jumbo) pre-filter

Optional features

- Antiscalant dosing pumps with level switch
- Supply pumps and storage vessels
- Antiscalant

Technical Data

- 150-1000 l/h (depending on model)
- · Up to 90% Salt reduction
- 50%-95% System recovery
- 2000 ppm, Max inlet TDS
- Power Supply 230VAC 50Hz
- Coated CSTL
- 5°C 35°C

Benefits

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

Technical Features							
Model	APRO-Black 150	APRO-Black 250	APRO-Black 300	APRO-Black 500	APRO-Black 750	APRO-Black 1000	
Permeate flow, I/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	2000	2000	2000	2000	2000	
Production of clean water, I/h	150	250	300	500	750	1000	
Reduction of salt content			Up t	o 90%			
System recovery			50%	%-95 %			
Membrane's type	1x4021	1x4040	2x4021	2x4040	3x4040	4x4040	
Power supply			230VA	C, 50Hz			
Dimensions, mm	510x390x725	555x390x1210	595x390x845	630x390x1270	765x390x1270	830x520x1300	
Net weight, kg	38,5	47,5	49,5	58,5	72	94	
Connections (inlet, outlet, concentrate)	3/4", 1/2", 1/2" NPTF						

SST-Series



Technical Data

- 150-1000 l/h (depending on model)
- Up to 90% Salt reduction
- 50%-85% System recovery
- · 2000 ppm, Max inlet TDS



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





The APRO-SST series systems are compact Home and Commercial reverse osmosis units that allow a consistent production of high-quality water with low energy consumption and reduced operational cost.

Equipped with the highest quality components, APRO-SST series features robust space-saving design, easy maintenance, and quiet operation.

System equipment

- Various product Sizes 150 1000 l/h
- Stainless steel frame and equipment panel
- Multi stage stainless steel Grundfos pump
- Low pressure membranes
- Stainless steel needle regulation valve
- Fully equipped electric board with pump protection
- MP controller with TDS/Flow/Pressure monitoring
- Stainless steel panel mounted w/ Glycerin-filled gauges
- BB (Jumbo) pre-filter

Optional features

- Antiscalant dosing pumps with level switch
- Supply pumps and storage vessels
- Antiscalant

Technical Features							
recrimicar reatures							
Model	APRO-SST 150	APRO-SST 250	APRO-SST 300	APRO-SST 500	APRO-SST 750	APRO-SST 1000	
Permeate flow, I/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	2000	2000	2000	2000	2000	
Production of clean water, I/h	150	250	300	500	750	1000	
Reduction of salt content			Up to	90%			
System recovery			50%-	-85%			
Membrane's type	1x4021	1x4040	2x4021	2x4040	3x4040	4x4040	
Power supply			220V, 50Hz				
Dimensions, mm	510x390x725	555x390x1210	595x390x845	630x390x1270	765x390x1270	830x520x1300	
Net weight, kg	38,5	47,5	49,5	58,5	72	94	
Connections (inlet, outlet, concentrate)	3/4", 1/2", 1/2" NPTF						

HP-Series





The APRO-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 cost.

Equipped with the highest quality components, APRO-HP series features robust space-saving design, easy maintenance, and quiet operation.

System equipment

- Various product Sizes 250 2000 I/h
- Stainless steel frame
- Multi stage stainless steel Grundfos pump
- MP controller for quality monitoring
- High rejection TFC membrane
- Panel mounted Glycerin-filled gauges
- Low pressure shutoff
- Double pre-filter
- High pressure stainless steel piping
- Low pressure PVC piping
- Belimo actuated flush valve

Technical Data

- 250-2000 l/h (depending on model)
- Up to 99,7% Salt reduction
- 45%-85% System recovery
- · 4000 ppm, Max inlet TDS

Optional features

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

Benefits

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

Technical Features							
Model	RO-HP 250	RO-HP 375	RO-HP 500	RO-HP 750	RO-HP 1000	RO-HP 1500	RO-HP 2000
Permeate flow, I/h	250	375	500	750	1000	1500	2000
Membrane quantity	2	3	2	3	4	6	8
Max inlet TDS, ppm	4000	4000	4000	4000	4000	4000	4000
Production of clean water, I/h	250	375	500	750	1000	1500	2000
Reduction of salt content				Up to 99,7%			
System recovery				45%-85%			
Membrane's type	2x4021 / 1x4040	3x4021	2x4040	3x4040	4x4040	6x4040	8x4040
Power consumption, kWt/h			0,7-1 kV	/t/h per 1 m3	permeat		
Power supply	220V,	50Hz			380V, 50Hz		
Dimensions, mm	580/740/1400, 590/800/1400 1775/1210/915 1200/860/1			60/1510			
Net weight, kg	134	153	210	215	220	225	240
Connections (inlet, outlet, concentrate)	3/4", 3/4", 3/4	³ / ₄ " , ³ / ₄ " , ³ / ₄ " NPT(PB) 1" , ³ / ₄ " , ³ / ₄ " NPT(PB)					

ATTER TREATMENT

Reverse Osmosis

HS (High Salinity) Series

Technical Data

- 150-1500 l/h (depending on model)
- · 95%-99% Salt reduction
- 25%-85% System recovery
- · 10000 ppm, Max inlet TDS

Optional features

- Antiscalant dosing pumps with level switch
- Supply pumps and storage vessels
- Nalco Antiscalant
- Integrated ABB PLC and color touch screen display with remote control kitx

Benefits

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



The APRO-HS systems allow a consistent production of high-quality water out of high salinity water sources. Equipped with reliable anti-corrosion components, APRO-HS series features robust space-saving design, long-lasting operation, and easy maintenance.

This product line was initially designed for Baltic sea water purification and is popular in this region for seaside business needs.

System equipment

- Various product Sizes 150 1500 l/h
- Stainless steel frame
- Multi stage stainless steel 316 Grundfos pump
- High rejection TFC Membranes
- MP controller for quality monitoring
- Panel mounted Glycerin-filled gauges
- Low pressure shut-off
- Double pre-filter
- High pressure stainless steel 316 piping
- Low pressure PVC piping
- · Belimo actuated flush valve
- Stainless steel 316 membrane housings

Technical Features					
Model	RO-HS 250	RO-HS 500	RO-HS 1000	RO-HS 1500	RO-HS 2000
Permeate flow, I/h	250	500	1000	1500	2000
Membrane quantity	1	2	4	6	8
Max inlet TDS, ppm	10.000	10.000	10.000	10.000	10.000
Production of clean water, I/h	250	500	1000	1500	2000
Reduction of salt content			Up to 98,5%		
System recovery			30%-90%		
Membrane's type	1x4040	2x4040	4x4040	6x4040	8x4040
Power supply	380V, 50Hz				
Dimensions, mm	1775/1210/915 1200/860/1510				
Net weight, kg	134	210	220	225	240
Connections (inlet, outlet, concentrate)	1" , ¾" , ¾" NPT(PB)				

APRO 100-500 DI





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

- A conductivity measuring unit ensures that only high-quality water passes to the storage tank.
- A two-step prefiltration system for mechanical impurities removal.
- An indicator box measures the membrane pressure.
- · Water supply monitoring sensors.

The APRO-DI series are made to use in industries like Medical & Pharmaceutical, Laboratories and Microchip Production.



Technical Data

- 100 500 LPH
- · Resin volume 18-50 L
- Supply pump flow max 3000 LPH
- Connection: 1" / 1/2" / 1/2" NPTF
- Power: 230V, 50Hz
- Stainless Steel
- Supply Pressure max. 4 bar

Can not be used for drinking water!

Advantages

- Grundfos main and dosing pumps
- Fully equipped electric board
- Stainless steel seamless vessel
- Remote control
- Easy settings via APRO Monitor App
- Modbus
- Space saving design
- Fully automatic
- Ultrapure water supply

Technical Features						
Model	APRO-100-DI APRO-500-D					
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, I/h	3000	4000				
Mixed bed ion-exchange resin volume, liters	18	50				
Accumulation tank, mm	build in (100I)	1000 × 750 × 1500 (450I)				
Power supply	230V, 50Hz					
Dimensions, mm	600x800x1600					
Connection Sizing (inlet, outlet, drainage)	1" / ½" / ½" NPTF					

Stackable Series



- 3000 6000 LPH
- Up to 95% Salt reduction
- Up to 98% System recovery
- 2000 ppm, Max inlet TDS
- Power: Three-phase 400V, 50Hz
- · Stainless Steel
- Op. Pressure 7 -10 bar
- Connection: 2" / 1" / 1"







Advantages

- Permeate recovery up to 99%
- Extended membrane life
- · Patentet high frequency discharge
- · Ultra low energy consumption
- Robust construction
- Easy maintenance
- Quiet operation
- Space saving design

Innovative modular RO units with varying production rates can be easily rearranged or reinforced with other units to meet the changing requests of capacity and space. Remote control allows managing the system from any place.

Booster pump and recirculation pumps save up to 50% electricity.

! Important Feed Water quality!

- Permeate flow is calculated at 20°C
- flow drops by 3% every 1°C
- Feed pressure: 2,5 6 bar
- TDS max.: 2000ppm
- Salinity: <1000ppm
- Free chlorine: <0,1 mg/l
- Iron: <0,1 mg/l
- Manganese: <0,1 mg/l
- Oil: 0 mg/l

Technical Features						
Model	APRO-3000	APRO-4000	APRO-6000			
Permeate flow, I/h	3000	4000	6000			
Membrane quantity	3	4	6			
Membrane size, inch		8 x 40				
Max inlet TDS, ppm	2000					
Production of clean water, I/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"				





Scandinavia's Online Filtration Solutions













Scandinavia's Online Filtration Solutions

SHOP ONLINE

At our online shop you will find a wide selection of filtration products ready for you to order.





ABOUT US

Ultrafilter Scandinavia offers a wide selection of filtration products for compressed air, liquids and gas. We have stock in Denmark and from here we distribute all of our products to Scandinavia and the Baltic countries.

Ultrafilter Scandinavia is a part of the Ultrafilter group. Our production facility is in Germany and we have several subsidiaries in Europe.

You can buy our products on local websites. Information about our products as well as brochures and manuals can be found on our website (www.ultra-filter.com).



ULTRAFILTER SKANDINAVIEN APS