



CLEAN WATER PRODUCT CATALOGUE



**CM
AQUATECHNIK**



MULTIMEDIA-SAND FILTRATION SYSTEMS

FEATURES

- FRP or painted carbon steel body
- Full-automatic automation system with Siemens logo or PLC+
- High quality minerals
- Minimal maintenance
- Low energy and operating costs
- 10 bar Tank test pressure
- 2-6 bar operating range Max 50 °C operating temperature



FRP TANK MODELS

MODEL	TANK DIMENSIONS (mm) (D x H)	CONNECTION (DN-FLANGE) SERVICE-DISCHARGE	SERVICE FLOW (m ³ /H)		MINERALS	
			SPEED = 20m/h	SPEED = 30m/h	Anthracite (lt)	QUARTZ (kg)
F-3072	775 x 2050	50 - 50	9	14	140	475
F-3672	975 x 2150	50 - 50	13	20	175	650
F-4272	1075 x 2400	65 - 65	18	27	210	775
F-4872	1225 x 2400	65 - 65	23	35	315	1125
F-6386	1600 x 2500	80 - 80	40	60	560	2025



STEEL TANK MODELS

MODEL	TANK DIMENSIONS (mm) D x H	CONNECTION (DN-FLANGE) SERVICE-DISCHARGE	SERVICE FLOW (m ³ /H)		MINERALS	
			SPEED = 20m/saat	SPEED = 30m/saat	ANTRACITE (lt)	QUARTZ (kg)
F-1215	1250 x 2790	65 - 65	25	37	350	1375
F-1615	1600 x 3020	80 - 80	40	60	595	2375
F-2015	2000 x 3250	100 - 100	63	94	805	3150
F-2415	2400 x 3400	125 - 125	91	136	1155	4525
F-2815	2800 x 3750	150 - 150	123	185	1575	6200





FEATURES

- FRP or painted carbon steel body
- Full-automatic automation system
- High quality minerals
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- Low energy and operating costs
- 10 bar Tank test pressure
- 2-7 bar operating range
- Max 50 °C operating temperature

FRP TANK MODELS

MODEL	TANK DIMENSIONS (mm) D x H	CONNECTION (DN-FLANGE) SERVICE-DISCHARGE	SERVIS DEBİSİ (m³/saat)		MINERALLER	
			Hız = 20m/saat	Hız = 30m/saat	KARBON (kg)	QUARTZ (kg)
C-3072	775 x 2050	50 - 50	9	14	150	225
C-3672	975 x 2150	50 - 50	13	20	225	325
C-4272	1075 x 2400	65 - 65	18	27	275	400
C-4872	1225 x 2400	65 - 65	23	35	400	550
C-6386	1600 x 2500	80 - 80	40	60	700	1000



STEEL TANK MODELS

MODEL	TANK DIMENSIONS (mm) D x H	CONNECTION (DN-FLANGE) SERVICE-DISCHARGE	SERVICE FLOW(m³/H)		MINERALS	
			Hız= 20m/saat	Hız = 30m/saat	KARBON (kg)	QUARTZ (kg)
C-1215	1250 x 2790	65 - 65	25	37	475	700
C-1615	1600 x 3020	80 - 80	40	60	850	1150
C-2015	2000 x 3250	100 - 100	63	94	1325	500
C-2415	2400 x 3400	125 - 125	91	136	1900	725
C-2815	2800 x 3750	150 - 150	123	185	2600	975



IRON-MANGANESE-ARSENIC FILTRATION SYSTEMS

FRP TANK MODELS

MODEL	TANK DIMENSIONS (mm) D x H	SERVICE FLOW (m ³ /H)		MINERALS		
		Hiz = 10 m/saat	Hiz = 15 m/saat	AR-FE-MN (kg)	QUARTZ (kg)	
AFM-3072	775 x 2050	50 - 50	4,5	7	483	150
AFM-3672	975 x 2150	50 - 50	6,5	10	693	250
AFM-4272	1075 x 2400	65 - 65	9	13,5	924	300
AFM-4872	1225 x 2400	65 - 65	11,5	17	1218	500
AFM-6386	1600 x 2500	80 - 80	20	30	2100	800

STEEL TANK MODELS

MODEL			SERVICE FLOW (m ³ /H)		MINERALS	
			SPEED = 10 m/saat	SPEED = 15 m/saat	AR-FE-MN (kg)	QUARTZ (kg)
AFM-1215	1250 x	65 - 65	12,5	18,5	1281	500
AFM-1615	1600 x	80 - 80	20	30	2100	800
AFM-2015	2000 x	100 - 100	31,5	47	3297	500
AFM-2415	2400 x	125 - 125	45	68	4746	700

FACE PIPING SINGLE / DUPLEX SOFTENER SYSTEMS WITH EPOXY PAINTED ST-37 TANK

- With Epoxy painted carbon steel tank (Optional Stainless steel tank)
- Cationic resin included
- Maximum operation pressure is 6 bar
- SINGLE System is flow controlled (Optional timer controlled)
- Pneumatically actuated 100 Lt/min @ 8 bar butterfly valves or electrically activated valves
- Bottom collector structure is lateral diffuser or plate type with KSH diffusers
- PVC-U material surface piping (Optional galvanised surface piping)
- Sample taps and manometers in the inlet and outlet of the system
- Electronic card or Siemens logo control panel (Optional touch screen)
- Electric 220V / 50 Hz / 1 pH
- For 1 Lt resin 150 gr salt consumption is accepted
- Resin capacity 6000 LtFr is accepted
- Pneumatic 100 Lt/min @ 8 bar or Electric valve options



POWER SUPPLY IS ACTUATED TANDEM SOFTENER SYSTEM

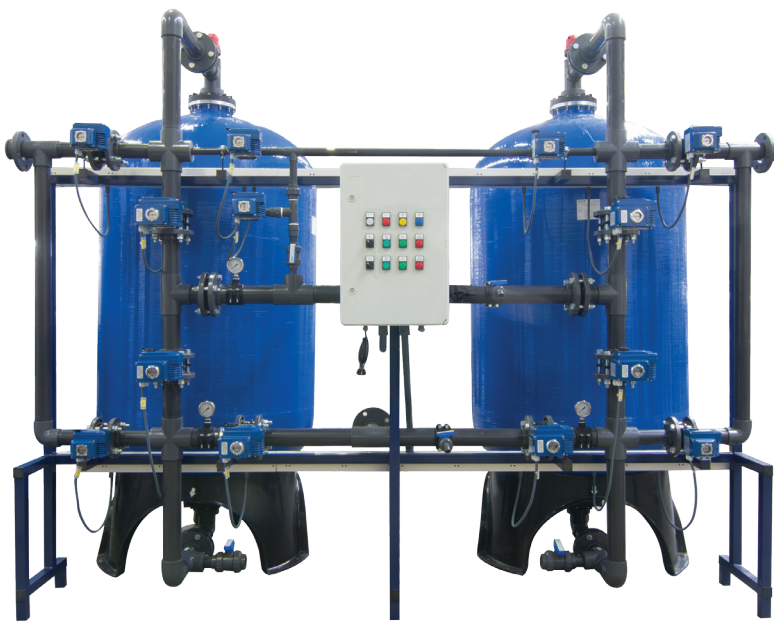


ELECTRICAL ACTUATED SINGLE SOFTENER SYSTEM

MODEL	DIMENSIONS (mm) (dmt x Htop)	CONNECTION (DN-FLANGE) SERVICE- DRAIN BRINE LINE	FLOW m ³ /h	BRINE CONS. (kg/rej.)	MINERALS			
					SINGLE		DUPLEX	
					RESIN (lt)	QUARTZ (kg)	RESIN (kg)	QUARTZ (kg)
S/ST-1220	1250x3120	80-50-40	50	270	1800	300	1800x2	300x2
S/ST-1620	1600x3350	100-80-50	85	420	2800	600	2800x2	600x2
S/ST-2020	2000x3550	125-80-50	135	660	4400	500	4400x2	500x2
S/ST-2420	2400x3750	150-100-80	180	945	6300	700	6300x2	700x2

**FACE PIPING SINGLE/DOUBLE
SOFTENER SYSTEMS WITH FRP TANK**

- With WCY brand FRP tank
- Cationic resin included
- Maximum operation pressure is 6 bar
- Pneumatically actuated butterfly valves (Optional electrically actuated valves)
- Bottom collector structure is lateral diffuser
- PVC-U material face piping (Epoxy painted skid)
- Sample taps and manometers in the inlet and outlet of the system
- Electronic card or Siemens logo control panel (Optional touch screen)
- Electric 220V /50 Hz / 1 pH
- For 1 Lt resin; 150 gr salt consumption is accepted
- Resin capacity 6000 LtFr resin is accepted
- Pneumatic 100 Lt/min @ 8 bar or Electric valve options



ELECTRIC ACTUATED TANDEM SOFTENER SYSTEM



ELECTRIC ACTUATED
SINGLE SOFTENER SYSTEM

MODEL	DIMENSIONS (mm) (dmt x Htop)	CONNECTION (DN-FLANGE) SERVICE- DRAIN BRINE LINE	FLOW m ³ /h	BRINE CONS. (kg/rej.)	MINERALS			
					SINGLE		DUPLEX	
					RESIN (lt)	QUARTZ (kg)	RESIN (kg)	QUARTZ (kg)
S/ST-3072	775 x 2050	50 - 50 - 25	20	75	500	150	500x2	150x2
S/ST-3672	975 x 2150	50 - 50 - 25	27	113	750	250	750x2	250x2
S/ST-4272	1075 x 2400	65 - 65 - 25	32	135	900	300	900x2	300x2
S/ST-4872	1225 x 2400	65 - 65 - 40	42	180	1200	500	1200x2	500x2
S/ST-6386	1600 x 2500	80 - 80 - 40	50	270	1800	800	1800x2	800x2

MECHANIC FILTRATION SYSTEMS

- BAG FILTERS
- SEPARATOR FILTERS
- CARDRIDGE FILTERS



PVC BAG FILTERS



SS304 BAG FILTER



SP350 - SP800



SPARE BAG
FILTERS

BAG FILTER SYSTEMS

MODEL	CONNECTION	CAPACITY (m ³ /h)	DIMENSIONS (mm)	WEIGHT (kg)
PVC BAG FILTER SYSTEMS				
PVC732 AYB	2" (DN50)	10	400 x 420 x 1180	18
STAINLESS BAG FILTERS (SS304, SS316)				
ABF732	2" (DN50) GEAR	10	430 x 440 x 1075	32
ABF3 x 732	3" (DN80) GEAR	30	625 x 660 x 1180	100
SPARE BAG FILTERS				
MODEL	DIMENSIONS (mm)		MICRON RATING	
7" - 32"	170 x 820		5 - 10 - 25 - 50 - 100 - 200 Micron	

SEPARATOR FILTERS

MODEL	CONNECTION	FLOW RATE (m ³ /h)	DIMENSIONS (mm)	WEIGHT (kg)
SS304, SS316 STAINLESS STEEL / ST-37 CARBON STEEL (EPOXY PAINTED)				
SP 100	1/2" (DN15)	1-1,5	780 x 176 x 140	6
SP 150	3/4" (DN20)	2-7,5	780 x 176 x 140	6
SP 175	1" (DN25)	6,5-11	775 x 208 x 168	7,7
SP 200	1 1/4" (DN32)	10-16	775 x 223 x 168	9
SP 250	1 1/2" (DN40)	14,5-18	775 x 223 x 168	10
SP 350	2" (DN50)	17-24,5	1185 x 450 x 410	18,5
SP 450	2 1/2" (DN65)	22-35	1185 x 450 x 410	19
SP 600	3" (DN80)	33,5-66	1430 x 520 x 470	29,3
SP 800	4" (DN100)	64-110	1720 x 540 x 485	50,5

Operating Pressure: 10 bar (Max.)

Drain Line: For all models 1" Micron Range: 70-110 Micron

MECHANIC FILTRATION SYSTEMS



SPUN FILTERS



MODEL PVC5



MODEL PVC9



MODEL ACF

CARTRIDGE FILTERS

MODEL	CONNECTION	CARTRIDGE QTY	CARTRIDGE LENGTH	DIMENSIONS (mm)	WEIGHT (kg)	FLOW RATE (m ³ /h)				
						1μ	5μ	10μ	25μ	50μ

PVC MULTI-CARTRIDGE FILTERS

PVC 520	DN50	5	20"	300 x 300 x 720	13	5	10	15	20	24
PVC 530	DN50	5	30"	300 x 300 x 1000	14,5	7,5	15	22,5	23	24
PVC 540	DN50	5	40"	300 x 300 x 1200	16,5	10	20	23	23	24
PVC 930	DN80	9	30"	400 x 400 x 1000	26	13,5	27	40,5	54	54
PVC 940	DN80	9	40"	400 x 400 x 1200	31	18	36	54	55	54

Operating Pressure: 5 bar (Max) Body: PVC Material Filtration Range 1 - 25 Micron

STAINLESS STEEL MULTI-CARTRIDGE FILTERS

ACF 320	2"(DN50)	3	20"	375 x 426 x 954	19	3	6	9	12	18
ACF 330	2"(DN50)	3	30"	375 x 426 x 1200	22	5	9	14	20	24
ACF 340	2"(DN50)	3	40"	375 x 426 x 1250	24	6	12	18	24	24
ACF 520	2"(DN50)	5	20"	425 x 470 x 973	23	5	10	15	20	24
ACF 530	2"(DN50)	5	30"	425 x 470 x 1223	27	8	15	24	24	24
ACF 540	2"(DN50)	5	40"	425 x 470 x 1473	32	10	20	24	24	24
ACF 830	2 1/2"(DN65)	8	30"	435 x 440 x 1235	37	12	24	36	48	54
ACF 840	2 1/2"(DN65)	8	40"	435 x 440 x 1485	44	16	32	48	54	54
ACF 1230	3"(DN80)	12	30"	490 x 485 x 1238	49	18	36	54	54	54
ACF 1240	3"(DN80)	12	40"	490 x 485 x 1538	58	24	48	54	54	54
ACF 1640	4"(DN100)	16	40"	595 x 600 x 1550	82	32	64	92	92	92
ACF 2740	5"(DN125)	27	40"	790 x 790 x 1574	115	54	108	140	140	140

Operating Pressure: 10 bar (Max) Body: AISI 304 or 316 Stainless Steel Filtration Range: 1 - 25 Micron



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REVERSE OSMOSIS

PRO SERIES



PRO 6080



PRO 280



PRO 4280



REVERSE OSMOSIS PRO SERIES

MODEL	CAPACITY @20C m ³ /hour	MAX. OPERATING PRESSURE (BAR)	MEMBRANE VESSEL QTY (pcs)	8" MEMBRANE QTY (pcs)	SYSTEM RECOVERY (%)
PRO 180	1	12	1	1	50
PRO 280	2	12	2	2	50
PRO 380	3	12	1	3	60
PRO 480	4	12	2	4	60
PRO 680	6	12	2	6	60
PRO 880	8	12	2	8	70
PRO 1080	10	12	2	10	70
PRO 1280	12	12	2	12	75
PRO 1580	15	12	3	15	75
PRO 1880	18	12	3	18	75
PRO 2480	24	12	4	24	75
PRO 3080	30	12	5	30	75
PRO 3680	36	12	6	36	75
PRO 4280	42	12	7	42	75
PRO 4880	48	12	8	48	75
PRO 6080	60	12	10	60	75
PRO 7280	72	12	12	72	75
PRO 9680	96	12	16	96	75

STANDARD FEATURES

- FRP Membrane Vessels
- 8" TFC Spiral membranes
- AISI304 stainless steel vertical centrifuge high pressure pump
- Frame is AISI304 Stainless Steel or St-37 Epoxy Painted Carbon Steel
- PP housing between PRO 180 - PRO 380
- PVC cartridge filter between PRO 480 - PRO2480
- Stainless Steel cartridge filter after PRO3080
- U-PVC low and high pressure piping between PRO180 - PRO 3080
- U-PVC low pressure piping between PRO180 - PRO3080 and AISI304 stainless steel piping between PRO3680 - PRO9680
- Automatic valves are electrical actuated
- Flow regulation valves at pump outlet and drain lines
- Low and high pressure switch
- Inline flow meters at product and drain water lines
- Glycerin type manometers
- Conductivity meter at product water line
- Autoflush system
- For optional automatic rinsing-CIP systems; cip pump and cip tank.
- Electronic card or PLC control panel
- ASC dosage system is not included.

RECOMMENDED FEED WATER LIMITS

Feed water TDS : 0-2,000 ppm

Feed water pressure : 2 to 5 bar

Feed water pH range : 6-8

Silica (SiO₂) tolerance : 25 ppm max.

Max. Iron (Fe) tolerance :
0,05 ppm (without ASC dosing)
0,2 ppm (with ASC dosing)

Min. and max. feed water temperature
(10° C - 30°C)

Hydrogen Sulfide should be removed

Turbidity should be removed (NTU <1)

Oil-Grase should be removed

SDI < 5

Microbiological contamination should be removed



REVERSE OSMOSIS

PRO-S SERIES



Seawater Reverse Osmosis Systems are divided into two groups firstly;

- The systems without energy recovery,

The systems without energy recovery include only high pressure pump used to pressurize the water to required levels. This type of systems generally are built for capacities up to 100 m³/day

- The systems with energy recovery,

The systems with energy recovery are designed for capacities larger than 120 m³/day. Energy recovery devices are produced by a lot of companies. Although some of them give total solutions (high pressure pumps with energy recovery devices), the others only offer separate systems.

SEA WATER REVERSE OSMOSIS SYSTEMS

- Purifying the high conductivity waters that cannot be treated with standart brackish reverse osmosis systems,
- Producing low conductivity waters that cannot be treated with single pass brackish reverse osmosis systems,
- Treating concentrated streams,
- Dealing with special ion separations.

USAGE AREA

Seawater Reverse Osmosis Systems are generally used for the treatment of sea water or high conductivity waters especially found near coastal areas. They are also used for ;

- For Boats and Ships which are generally far away from potable water resources for a long time,
- For places like hotels, apartments, houses which are far away from city water networks or which are in places having high potable water costs,
- For industrial places like factories, companies which are far away from city water networks or which are in places having high potable water costs,
- For places in offshore islands or for petrol stations in the middle of the sea,
- For military applications or naval forces' boats, ships.

REVERSE OSMOSIS PRO-S SERIES

MODEL	CAPACITY @20C m ³ / day	MEMBRANE SIZE	MEMBRANE QTY	FLUX lm ² h	RECOVERY %	HIGH PRESSURE PUMP BRAND	ERD
PRO-S PX 1280	180	8040	12	14 - 17	35 - 45	HPP: Grundfos, Fedco, Cat Pump	PX
PRO-S PX 1580	225	8040	15	14 - 17	35 - 45	HPP: Grundfos, Fedco, Cat Pump	PX
PRO-S PX 1880	270	8040	18	14 - 17	35 - 45	HPP: Grundfos, Fedco, Cat Pump	PX
PRO-S PX 2480	360	8040	24	14 - 17	35 - 45	HPP: Grundfos, Fedco, Cat Pump	PX
PRO-S PX 3080	450	8040	30	14 - 17	35 - 45	HPP: Grundfos, Fedco, Cat Pump	PX
PRO-S PX 3680	540	8040	36	14 - 17	35 - 45	HPP: Grundfos, Fedco, Cat Pump	PX
PRO-S PX 4280	630	8040	42	14 - 17	35 - 45	HPP: Grundfos, Fedco, Cat Pump	PX
PRO-S PX 4880	720	8040	48	14 - 17	35 - 45	HPP: Grundfos, Fedco, Cat Pump	PX
PRO-S PX 6080	900	8040	60	14 - 17	35 - 45	HPP: Grundfos, Fedco, Cat Pump	PX
PRO-S PX 7880	1200	8040	78	14 - 17	35 - 45	HPP: Grundfos, Fedco, Cat Pump	PX
PRO-S PX 9680	1500	8040	96	14 - 17	35 - 45	HPP: Grundfos, Fedco, Cat Pump	PX
PRO-S Mini 140	3	4040	1	13 - 16	18 - 35	Danfoss APP	NO
PRO-S Mini 240	6	4040	2	13 - 16	18 - 35	Danfoss APP	NO
PRO-S Mini 340	9	4040	3	13 - 16	18 - 35	Danfoss APP	NO
PRO-S Mini 440	12	4040	4	13 - 16	18 - 35	Danfoss APP	NO
PRO-S APP 280	30	8040	2	13 - 16	20 - 40	Danfoss APP	NO
PRO-S APP 380	45	8040	3	13 - 16	20 - 40	Danfoss APP	NO
PRO-S APP 480	60	8040	4	13 - 16	20 - 40	Danfoss APP	NO
PRO-S APP 680	90	8040	5	13 - 16	20 - 40	Danfoss APP	NO
PRO-S SAL 880	120	8040	8	14 - 17	35 - 45	KSB	SALINO
PRO-S SAL 1280	180	8040	12	14 - 17	35 - 45	KSB	SALINO
PRO-S SAL 1580	225	8040	15	14 - 17	35 - 45	KSB	SALINO
PRO-S SAL 1880	250	8040	18	14 - 17	35 - 45	KSB	SALINO
PRO-S TC 680	90	8040	6	14 - 17	35 - 45	HPP: Fedco	TC: Fedco
PRO-S TC 880	120	8040	8	14 - 17	35 - 45	HPP: Fedco	TC: Fedco
PRO-S TC 1280	180	8040	12	14 - 17	35 - 45	HPP: Fedco	TC: Fedco
PRO-S TC 1580	225	8040	15	14 - 17	35 - 45	HPP: Fedco	TC: Fedco
PRO-S TC 1880	270	8040	18	14 - 17	35 - 45	HPP: Fedco	TC: Fedco
PRO-S TC 2480	360	8040	24	14 - 17	35 - 45	HPP: Fedco	TC: Fedco
PRO-S TC 3080	450	8040	30	14 - 17	35 - 45	HPP: Fedco	TC: Fedco

CONTAINERIZED RO SYSTEMS



MODEL	MEMBRANE QTY	CAPACITY m ³ /day	MEMBRANE / VESSELS	VOLTAGE	RECOVERY	MULTI MEDIA FILTER QTY	CONTAINER DIMENSIONS (m)	DOORS QTY
C-PRO 1080	10	200	5	380V / 50Hz	65-70	1" - 42"	12.19 x 2.44 x 2.9	3
C-PRO 1580	15	300	5	380V / 50Hz	70-75	2" - 32"	12.19 x 2.44 x 2.9	3
C-PRO 2080	20	400	5	380V / 50Hz	70-75	2" - 36"	12.19 x 2.44 x 2.9	3
C-PRO 2480	24	500	6	380V / 50Hz	70-75	2" - 42"	12.19 x 2.44 x 2.9	3
C-PRO 3080	30	650	6	380V / 50Hz	70-75	2" - 48"	12.19 x 2.44 x 2.9	3
C-PRO 3680	36	800	6	380V / 50Hz	70-75	3" - 42"	12.19 x 2.44 x 2.9	3
C-PRO 4280	42	900	6	380V / 50Hz	70-75	3" - 48"	12.19 x 2.44 x 2.9	3
C-PRO 4880	48	1000	6	380V / 50Hz	70-75	3" - 48"	12.19 x 2.44 x 2.9	3