

# SEA WATER



professional treatment solutions  
turning your water into benefit



with our quality, we are everywhere there is water



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Azerbaijan  
Bangladesh  
Georgia  
India  
Japan  
Kazakhstan  
Kyrgyzstan  
Myanmar  
Nakhichevan  
Nepal  
Uzbekistan  
Pakistan  
Russia  
Sakhalin Island  
Tajikistan  
Turkmenistan

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Cyprus  
Greece  
Ireland  
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Malta  
Moldova  
Romania  
Slovakia  
Ukraine

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Guinea  
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Nigeria  
Sierra Leone  
Sudan  
Tunisia  
Zambia

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Jordan  
Oman  
Palestine  
Qatar  
Syria  
Saudi Arabia  
Yemen

Our company, which has been serving in the treatment sector since 1989, has entered into a joint investment with Aquamatch Inc. in 1996 and started designing and producing in Turkey. Since 2003, it has been an engineering and treatment company with 100% Turkish capital.

Our company has become one of the world's leading companies of water and wastewater treatment sector by signing big references and projects in 4 continental and more than 50 countries.

## Professional treatment solutions Turning your water into benefit



- 9000 m<sup>2</sup> indoor production facilities in Aydın
- Installation of mega desalination and wastewater recovery facilities
- Over 20 years of deep knowledge and manufacturing experience in membrane technologies
- Sales and technical services with 16 dealers in 10 different cities
- Installation and operation of turnkey water & wastewater treatment systems at home and abroad
- Engineering, design, manufacturing, sales and after sales services staff of about 300 people together with our dealers



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## Gaza / Palestin

### Drinking & Usage Water

#### Capacity:

255 m<sup>3</sup>/h SWRO System

570 m<sup>3</sup>/h Multi Media Filtration System

## Çolakoğlu Metallurgy / İzmit /Turkey

### Process Water for Metal Industry

#### Capacity:

400 m<sup>3</sup>/h SWRO System

700 m<sup>3</sup>/h Ultrafiltration System



## Avşa Island / Balıkesir / Turkey

### Drinking & Usage Water

#### Capacity:

167 m<sup>3</sup>/h SWRO System

417 m<sup>3</sup>/h Coagulation System & Multi Media Filtration System

## → Sea Water Reverse Osmosis Systems

Sea Water Reverse Osmosis (SWRO) systems are used to separate dissolved solids from sea water with membrane separation in order to get low conductivity fresh water.

Sea Water Reverse Osmosis systems are crossflow membrane separation units without backwash. Membranes are cleaned in place with chemicals time to time.

### General Features

- TFC Spiral Wound Membrane
- FRP Membrane Housing
- Duplex/SS 904 High Pressure Pump
- High Efficiency Energy Recovery System - Pressure Exchanger
- High Pressure Piping, Duplex
- Low Pressure Piping, PE
- Neopren Coated Carbon Steel / FRP Cartridge Filter
- PLC Control Panel & Operator Panel



### SWRO Systems Technical Features

Model	TDS ppm	Capacity m <sup>3</sup> /h	Recovery %	Vessel Quantity	Membrane Quantity	Connection Inlet/Outlet
ASW 03	36.000 – 46.000	30	30	1	3	DN 40/DN20
ASW 06	36.000 – 46.000	89 – 64	57 – 41	2	6	DN50/DN40
ASW 12	36.000 – 46.000	178 – 128	57 – 41	4	12	DN50/DN40
ASW 12 + ERI	36.000 – 46.000	172 – 125	55 – 40	4	12	DN50/DN40
ASW 18 + ERI	36.000 – 46.000	240 – 188	51 – 40	3	18	DN80/DN50
ASW 24 + ERI	36.000 – 46.000	320 – 249	51 – 40	4	24	DN80/DN50
ASW 30 + ERI	36.000 – 46.000	400 – 312	51 – 40	5	30	DN80/DN65
ASW 36 + ERI	36.000 – 46.000	570 – 410	57 – 41	6	36	DN80/DN65
ASW 42 + ERI	36.000 – 46.000	653 – 469	57 – 41	7	42	DN100/DN65
ASW 48 + ERI	36.000 – 46.000	750 – 539	57 – 41	8	48	DN100/DN80
ASW 60 + ERI	36.000 – 46.000	980 – 718	56 – 41	10	60	DN150/DN100
ASW 72 + ERI	36.000 – 46.000	1140 – 820	57 – 41	12	72	DN150/DN100
ASW 84 + ERI	36.000 – 46.000	1450 – 1036	56 – 40	14	84	DN150/DN150
ASW 96 + ERI	36.000 – 46.000	1650 – 1178	56 – 40	16	96	DN150/DN150
ASW 108 + ERI	36.000 – 46.000	1883 – 1321	57 – 40	18	108	DN150/DN150

\* The product water capacities in the table are the projection data obtained at 25 ° C design water temperature.

\* The operating pressures and efficiencies of the systems vary for different TDS values.

\* There is no energy recovery unit in ASW 03, ASW 06 and ASW 12 models.

## → Filtration Systems

Filtration systems are used to remove physical impurities such as sediment, turbidity, suspended solids, colour, odour and smell.

Filters remove particulates/ediments with various sizes and density by holding them with different media layers inside the tank. Filters are backwashed automatically in order to remove these paticulates/sediments from filter bed.

### General Features

- FRP / Epoxy Coated Carbon Steel Tanks - Neopren Coated Inside
- 4 - 6 Bar Operating Pressure
- Pneumatic Actuated Butterfly Valves
- HDPE / PVC Piping
- PLC Control Panel
- Electricity 220 V / 50 Hz / 1 pH



### Epoxy Coated Carbon Steel –Inside Neopren Coated Multi Media & Activated Carbon Filters Technical Features

Model	Capacity m <sup>3</sup> /h			Tank Dimensions	Body/ Dome Thickness	Activated Carbon Filters	Multi Media Filters			Area
	Filtration Velocity						Activated Carbon & Grave	Gravel	Sand	
	20 m/h	25 m/h	30 m/h			cm		mm	kg	
YMMF / YACF 95 AS	14	18	21	95x320	6/8	325 + 150	150	500	252	0,7
YMMF / YACF 125 AS	25	31	37	125x320	8/10	575 + 300	300	850	414	1,23
YMMF / YACF 160 AS	40	50	60	160x340	8/10	900 + 450	450	1350	648	2
YMMF / YACF 190 AS	57	71	86	190x340	8/10	1300 + 675	675	2350	720	2,83
YMMF / YACF 240 AS	91	113	136	240x360	10/12	2025 + 1050	1050	3750	1134	4,52
YMMF / YACF 285 AS	128	160	192	285x380	10/12	2900 + 1500	1500	5300	1602	6,38

### FRP Multi Media & Activated Carbon Filters Technical Features

Model	Capacity m <sup>3</sup> /h			Tank Dimensions	Activated Carbon Filters	Multi Media Filters			Area
	Filtration Velocity					Activated Carbon & Grave	Gravel	Sand	
	20 m/h	25 m/h	30 m/h		cm		kg	kg	
MMF / ACF 30 AF	10	12	15	78x214	175 + 150	150	175	162	0,48
MMF / ACF 36 AF	14	18	21	94x215	200 + 225	225	200	198	0,7
MMF / ACF 42 AF	19	24	28	109x240	225 + 300	300	225	196	0,93
MMF / ACF 48 AF	24	30	36	123x240	250 + 450	450	250	234	1,19
MMF / ACF 63 AF	42	53	63	163x249	375 + 825	825	350	342	2,1

\* The filtration speeds of the table may vary depending on the water quality and filter usage. \* Speed for reverse rinsing capacity is 30 m/h.

\* Tank height is total height including feet, sizes vary according to the manufacturer.

### Horizontal Epoxy Coated Carbon Steel Inside Neopren Coated Multi Media Filters Technical Features

Model	Capacity m <sup>3</sup> /h		Tank Dimensions	Body/ Dome Thickness	Multi Media Filters			Area
	Filtration Velocity				Gravel	Sand	Anthracite	
	15 m/h							
HORIZONTAL YMMF 2,85x6 M	250		285x600	10/12	7350	14050	4014	15,89
HORIZONTAL YMMF 2,85x9 M	350		285x600	10/12	10950	21050	6030	23,17
HORIZONTAL YMMF 2,85x12 M	450		285x1200	10/12	14550	28100	8048	33,78

\* Speed for reverse rinsing capacity is 30 m/h.

\* Tank height is total height including feet, sizes vary according to the manufacturer.

## → Ultrafiltration Systems

Ultrafiltration (UF) systems are used for filtration of especially sea water, river water, well water and spring water that have dense and variable physical impureness load by membrane technology.



Sea Water Pre Treatment UF Systems Vertical Series Technical Features

Model	Turbidity	Capacity	Membrane Area	Flux
	NTU	m <sup>3</sup> /h	m <sup>2</sup>	lt/m <sup>2</sup> .h
CHZ UFD 03	10 – 30	13,9 – 10,0	192	51,9
CHZ UFD 06	10 – 30	27,8 – 19,9	384	51,9
CHZ UFD 08	10 – 30	37,1 – 26,6	512	51,9
CHZ UFD 12	10 – 30	55,6 – 39,9	768	51,9
CHZ UFD 14	10 – 30	64,9 – 46,5	896	51,9
CHZ UFD 18	10 – 30	83,4 – 59,8	1152	51,9
CHZ UFD 22	10 – 30	101,9 – 73,1	1408	51,9
CHZ UFD 24	10 – 30	111,2 – 79,7	1536	51,9
CHZ UFD 30	10 – 30	139,0 – 99,6	1920	51,9
CHZ UFD 36	10 – 30	166,8 – 119,6	2304	51,9
CHZ UFD 48	10 – 30	222,4 – 159,4	3072	51,9

## → Bernoulli / Sweden

Bernoulli filters are self-cleaning filters with a cleaning operation based on the Bernoulli principle, which ensures continuous filtration of water in pressurized systems. The most important part of Bernoulli Filter is the disc mounted on a pneumatic cylinder that is . The Bernoulli filter filtration range is 100–2000 microns.

Usage Ares

- Pre filtration of sea, well and river waters
- UF sytem input
- Cooling tower lines



## → STF Filtras / Spain

STF filters are used for filtration in seawater treatment plants, drinking water facilities, agricultural irrigation and physical barrier against to zebra mussels, cogeneration facilities, cooling towers. STF filter filtration range is 10–1000 microns.



## → Accessories

Various treatment equipments are used to help main treatment systems in power plants.



**Measurement stations**

- In UF, RO, MBDI ve EDI systems
- Measurement of turbidity and Silica



**Cartridge & Bag Filters**

- Sensitive filtration required



**Chemical Dosing Systems**

- Pre Filtration, UF, RO systems.

## → Dolomite Systems

The low pH and conductivity values of RO product water are increased by using dolomite filter.



Dolomite Filter Technical Features

Model	Capacity	Tank Dimensions	Connection	Dolomite	Area
	m <sup>3</sup> /h	cm		kg	cm
RC 30 M	10	77 x 225	DN 40	675	0,48
RC 36 M	14	92 x 231	DN 50	975	0,7
RC 42 M	19	107 x 242	DN 65	1350	0,93
RC 48 M	24	122 x 243	DN 65	1800	1,19

\* The filtration speed of the table is 20 m<sup>3</sup>/h. \* Speed for backwash capacity is 30 m<sup>3</sup>/h. \* Tank height is total height including feet, sizes vary according to the manufacturer.

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