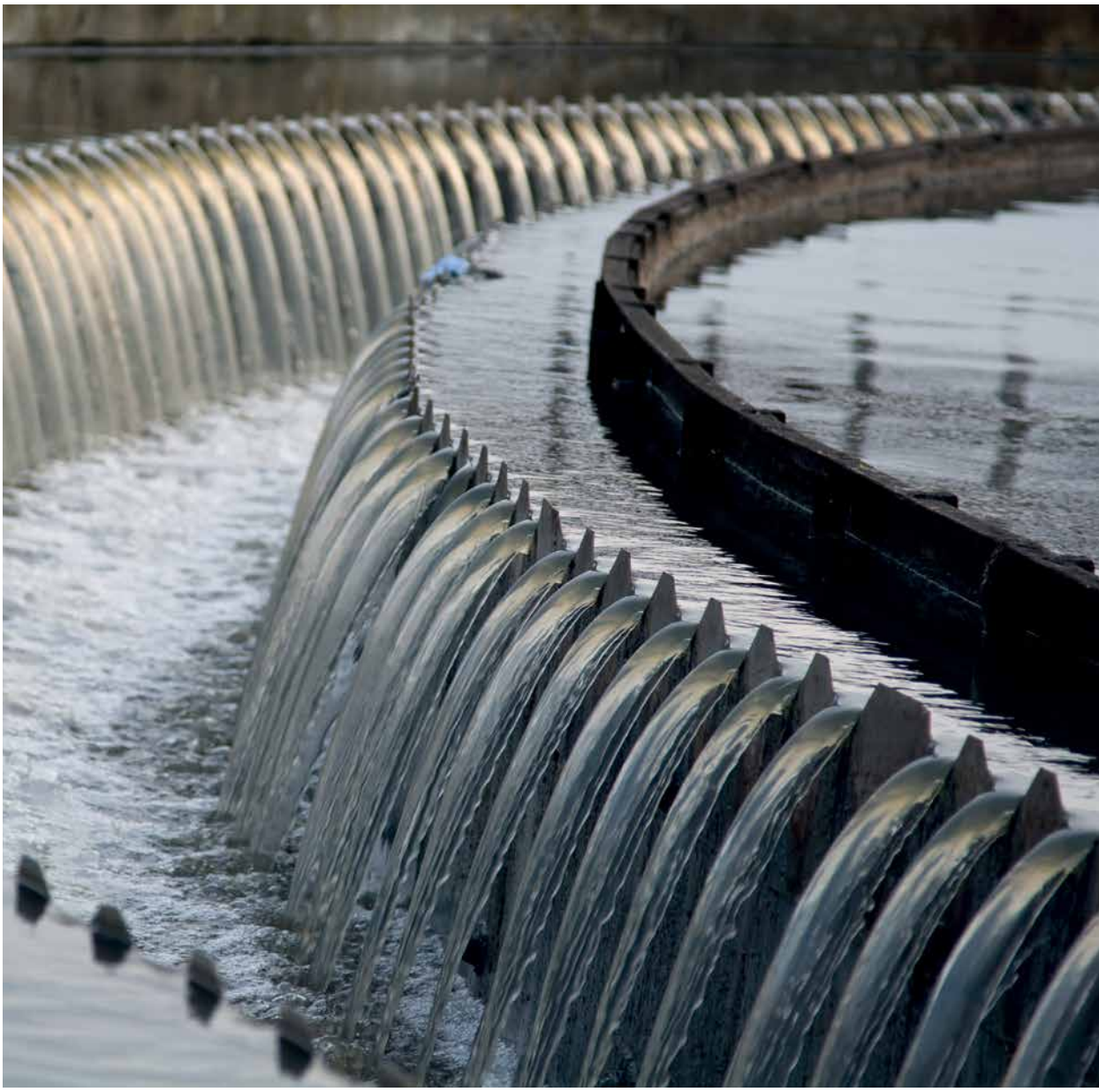
# WASTE WATER & GREY WATER

professional treatment solutions
**turning your water into benefit**



aquamatch®

www.aquamatch.com.tr

# with our quality, we are everywhere there is water



**Asia**

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

**Europe**

Albania
Bulgaria
Cyprus
Greece
Ireland
Latvia
Malta
Moldova
Romania
Slovakia
Ukraine

**Africa**

Algeria
Cameroon
Djibouti
Egypt
Ethiopia
Ghana
Guinea
Libya
Maldives
Morocco
Niger
Nigeria
Sierra Lione
Sudan
Tunusia
Zambia

**Middle East**

United Arab Emirates
Iraq
Iran
Israel
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 $m^2$ indoor production facilites in Aydın
- Installation of mega desalination and wastewater recovery facilites
- 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 & waterwater treatment systems at home and abroad
- Engineering, design, manufacturing, sales and after sales services staff of about 300 people together with our dealers






DENİZ SU CHESS YOUTH AND SPORTS CLUB ASSOSIATION
2016 Türkiye İş Bankası Chess League 2nd.



## Gümbet Waste Water (Sewage) Treatment Plant Bodrum/Muğla

**Capacity:**
10.000 m³/day
60.000 People Capacity Biological Waste Water Treatment Plant

## Gümüşlük Waste Water (Sewage) Treatment Plant Bodrum/Muğla

**Capacity:**
2000 m³/day
10.000 People Capacity Biological Waste Water Treatment Plant
Odor Treatment : It has been designed to remove odors that occure at aeration, settling and sludge thickening tanks.





## Habom Grey Water Treatment System / İstanbul

**Capacity:**
100 m³/day MBR System, Dry Type

## Özyeğin University Grey Water Treatment System / İstanbul

**Capacity:**
60 m³/day Graded Filtration + UF System





## Package Domestic Wastewater Treatment Systems

Package Wastewater (Sewage) Treatment Plants are used to treat the domestic wastewater. Units are manufactured from carbon steel material or can be done as concrete (by client) where the mechanical & electrical equipments are supplied by us.



General Features

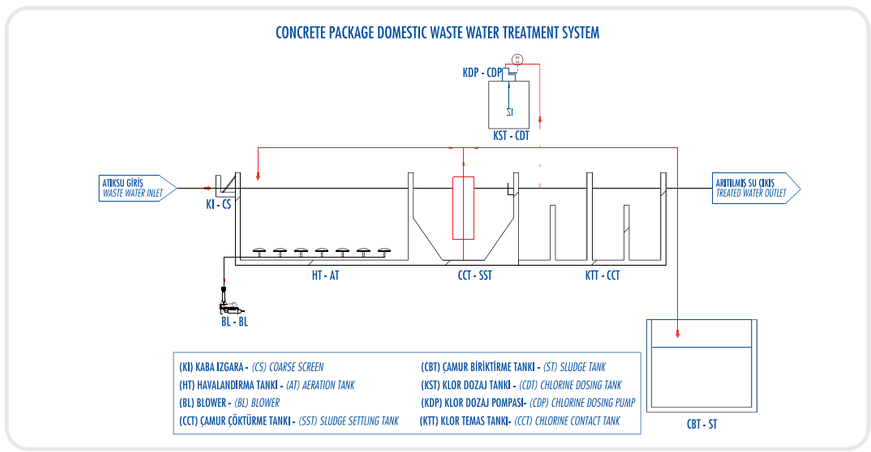
- Epoxy Coated Carbon Steel Tanks
- Mechanical Equipments for Concrete Plants
- Basket Screen
- Blower & Diffusers
- Weirs & Sludge Return Pump
- Chlorine Dosing System
- PLC Control Panel

| MODEL | Person | Organic Load | Capacity | Aeration Tank |
|---|---|---|---|---|
| | | kg BOD5/day | m³/day | m³ |
| **BT 6** | **100** | 6 | 20 | 17 |
| **BT 12** | **200** | 12 | 40 | 35 |
| **BT 24** | **400** | 24 | 80 | 69 |
| **BT 36** | **600** | 36 | 120 | 92 |
| **BT 45** | **750** | 45 | 210 | 182 |

*BT Series: Concrete Tanks

| | | | | |
|---|---|---|---|---|
| **ST 3** | **50** | 3 | 15 | 12 |
| **ST 6** | **100** | 6 | 20 | 17 |
| **ST 15** | **250** | 15 | 45 | 35 |
| **ST 24** | **400** | 24 | 70 | 52 |
| **ST 27** | **450** | 27 | 80 | 57 |

*ST Series: Epoxy Coated Carbon Steel Tanks



## Membrane Bioreactor (MBR) Systems

Membrane Bioreactor Systems are used for high removal of physical & organic pollutants from wastewater to obtain reusable water for plants where recycling is done.

MBR Systems are biochemical oxidation processes which are used to seperate clean water and biomass physically with membrane barrier.

MBR Systems are applied in two different ways; as Submerged type and
Side Stream type.





General Features

- Alum Dosing Unit & Rotating Disc Screen
- Blower & Diffusers
- System Feed Pump
- Submerged Type or Side Stream Type MBR Modules
- Product Water & Backwash & CEB Pumps
- Excess Sludge & Sludge Return Pumps
- Chlorine & Acid Dosing Units
- PLC Control Panel

| MODEL | Capacity | Module Quantity | Module Area | Flux |
|---|---|---|---|---|
| | $m^3$/day | m/h | $m^2$ | lmh |
| **MBR B 60** | 60 | 5 | 125 | 28 |
| **MBR B 170** | 170 | 10 | 250 | 28 |

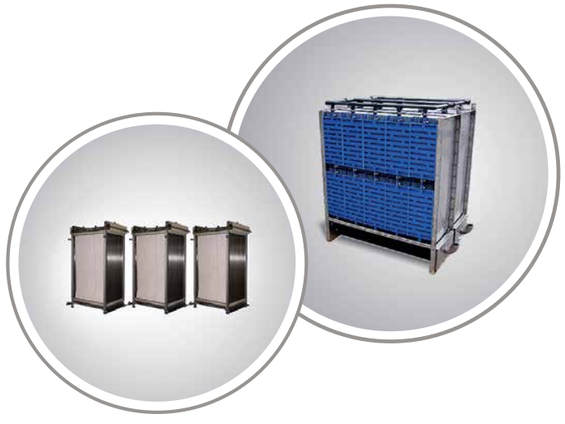
*B Series: Submerged Type

| | | | | |
|---|---|---|---|---|
| **MBR K 30** | 30 | 1 | 33 | 38 |
| **MBR K 60** | 60 | 2 | 66 | 38 |
| **MBR K 120** | 120 | 4 | 132 | 38 |
| **MBR K 170** | 170 | 6 | 198 | 38 |

*K Series: Skid Mounted, Side Stream Type

Membrane Bioreactor Systems

- Good quality treated water is achieved, thus the treated wastewater can be recycled or reused.
- Turbidity: < 1 NTU
- Biological Contamination: None
- The system can be operated with high MLSS concentration (8-30 g/lt). Therefore, smaller aeration tank is needed.
- Sludge formation is less.
- Settling tank is not required.
- Due to wastewater recycling, the sustainability of natural resources are provided.





## Grey Water Treatment Systems

Grey water, which is consist of showers, bathtubs and sinks, does not contain domestic or industrial wastewater Grey water is 80 % of domestic wastewater. By treatment of grey water, clean water for nondrinking applications is achieved.
Recycled Water Obtain Grey Water Treatment Systems; become usable in hotels, villas, factories, airports, green buildings for industrial, agricultural and domestic purposes; and can be used to meet the water needs of many areas such as;

- Toilet Reservoirs
- Irrigation
- Ponds
- Car Wash
- Feeding Fire Plumbing
- Feeding Cooling Tower

## UF Series

With UF series, organic matter content of grey water is reduced, clear and hygienic water is obtained. UF series systems are preferred for easy and clean operation, smaller area requirements, easy intervention in case of problems, easy installation opportunities. Standard design capacities are 10, 20 and 40 $m^3$/day in UF series grey water treatment systems.



**Screen Filter** — **Pre Disinfection** — **Filtration** — **Adsorption** — **Ultrafiltration** — **Post Disinfection**

## Submerged Type MBR SERIES

Submerged MBR Systems are the technology that combines aerobic biological treatment and membrane filtration to provide water with high treatment efficiency. MBR units are compact and mobile construction systems that are immersed in a tank of submerged MBR membranes. Standard design capacities are 5, 10, 20, 40, 60 and 80 $m^3$/day in Submerged series grey water treatment systems.



**Biological Treatment** — **Submerged MBR** — **Disinfection**

## Side Stream Type MBR SERIES

MBR Systems are called “SideStream”. When this system is used, there is no need for a sedimentation tank or a membrane tank. Moreover, it is easy to intervene the system in case of any failure due to the its skid.
Standard design capacities are 30, 45 and 60 $m^3$/day in Sidestream series grey water treatment systems.



**Biological Treatment** — **Side Stream MBR** — **Disinfection**

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