

**GlancoDISC®**  
Rotating Biological Contactor (RBC)

Biological Wastewater Treatment Systems  
with a capacity of up to 20,000 people  
in areas without centralized treatment.

**Reliable German technology,  
MADE IN TÜRKİYE!**



**Lowest carbon footprint**  
**Lowest energy consumption**  
**Operated with renewable energy**  
**Easy operation and easy maintenance**

We are one of the most  
important companies  
for the world because  
one day everything will  
be cheaper than water®





The most significant problem of the 21st century is depleting natural resources, water scarcity, and rapidly deteriorating environment. In 2004, recognizing the urgency of environmental issues threatening future generations, I saw an opportunity to serve the community and make a difference.

When I was born in 1960, the world's population was less than 4 billion. Now, it's over 8 billion! By 2050, the population is expected to exceed 9 billion. While the world economy had a volume of 4 trillion euros in 1950, it has now surpassed 63 trillion euros in terms of production. The cost that the world pays for this increase, more than 15 times, in terms of the environment and natural resources is enormous. At this rate, we may leave our children and grandchildren with the most advanced technological products like smartphones and driverless cars, but will they thank us if they inherit a world without clean drinking water, breathable air, and pristine rivers?

I consider myself more of a social entrepreneur than a businessperson. Preserving the most valuable natural resource, water, and leaving it as clean as possible for future generations has become the purpose of my life. That's why I decided to locally produce biological treatment systems using German biodisc technology, which is widely recognized globally. This technology, 100% MADE IN TÜRKİYE, utilizes biologically advanced treatment systems capable of treating wastewater for 200 to 20,000 people, allowing the reuse of water. The biodisc technology ensures nearly 80% energy savings, ease of maintenance, and operates odorless and noiseless. The birth of this technology is a result of addressing the challenges hindering the regular operation of wastewater treatment systems worldwide.

A sustainable future requires the adoption of wastewater treatment technologies. The Rotating Biological Contactor (RBC) system stands out as the technology with **the least energy consumption** among all known technologies. Equally significant is its possession of the **lowest carbon footprint**.

The system can be easily operated with solar and other types of renewable energy. Sürgülü Wastewater Treatment Plant, under the Mardin Water and Sewerage Administration project, is the first and only facility in Türkiye with a capacity of over 1000 people that operates entirely on solar energy. With a capacity of 4500 people, it showcases the integration of sustainable practices.

We take pride in having contributed to significant projects in nearly 40 countries across five continents. From the NATO base in Kosovo to the refugee camps in Australia, United Nations temporary earthquake housing in Hatay, campuses of Boğaziçi and Bilkent Universities, Coca-Cola factory in Elazığ to Aramco oil exploration sites, we are dedicated to serving humanity in diverse locations and contexts.

Unfortunately, due to the rapidly escalating impacts of the climate crisis, we believe that "one day everything will be cheaper than water"®. This perspective underscores our belief that we are a crucial company for the world in addressing the challenges posed by the increasing effects of the climate crisis.

Geylan Group, which has been following this vital issue for a long time and has made investments in various sectors for 40 years, has established the company Glanco Recovery and Recycle. Through collaboration with Glanco and PlanetTEK, both domestically and internationally, they have synergized their global experiences, forming a powerful alliance.

With the excitement of what we can achieve, we will work even harder. We will continue our relentless efforts for the most crucial issue for humanity, which is water.

## Hürriyet Necdet Aydoğan

PlanetTEK Environment and Treatment Technologies Inc.  
Founder



**We provide services in  
nearly 40 countries across  
five continents with our  
facilities designed for  
200-20,000 people in  
areas without centralized  
treatment, where the  
treated water will be  
reused.**

# In locations distant from centralized treatment and in need of water recovery, why GlancoDISC®?



## Source of Inspiration: Nature

The most significant feature of the GlancoDISC® system is its design, which is free from complexity and inspired by nature, making it simple and natural. This provides ease of operation and maintenance.

## Low Carbon Footprint

German Technology, with the lowest carbon footprint among all wastewater treatment technologies, holds a crucial position in today's context due to this feature.



## GlancoDISC®

Rotating Biological Contactor (RBC)

## Energy Efficiency

The GlancoDISC® system ensures energy savings of up to 80%. Biodisc is the least energy-consuming wastewater treatment system among all known technologies. In a Rotating Biological Contactor plant, the average monthly energy cost per person is less than \$0.13. While a conventional treatment plant with a capacity of 250-300 people requires approximately 75-90 kW of energy per day, the Rotating Biological Contactor system consumes about 9 kW. Due to its low energy demand, the system can be easily operated with Renewable Energy Sources.

## No Odor, No Noise

Odorless and noiseless mechanical design. A device rotating at 3 revolutions per minute and requiring 0.37 kW of energy operates almost silently. The secret to the system being odorless lies in the abundant oxygen penetrating bacteria in the biodisc system.

## Adaptable to Variable Loads

Stable, reliable biological treatment process. Even sudden changes in hydraulic and organic loads of up to 250% will not adversely affect the treatment performance. The system performs excellently in places with low bacterial levels, such as villages or greywater.

## Nitrogen and Phosphorus Removal

The biodisc system can achieve nitrogen and phosphorus removal in accordance with European standards.

## Water Reuse

The treated water can be used for irrigation, car washing, toilet flushing, etc., after advanced filtration and disinfection.

## Easy Maintenance and Operation

No continuous monitoring or intervention is required for the naturally occurring biological sludge on the surface of the discs, unlike the Active Sludge system. The weekly maintenance time for a facility with a capacity of 5000 people is between 1-2 hours. Since there is no parameter that needs continuous monitoring during operation, there is no need for instruments and laboratories.

## Long Lifespan

GlancoDISC® units are made of superior materials that will never be affected by corrosion, such as fiberglass, PE, high-density polypropylene (HDPP), galvanized coating, and stainless steel. Sized and shaped according to universal biodisc design principles, GlancoDISC® is among the least energy-consuming systems among global brands due to its superior design.

## Project Approval File

All approval documents for international projects are provided by GLANCO. Projects such as NATO, UN, KfW, EU, ARAMCO require stringent paper work for procedures. GLANCO has vast experience providing all the permits.

## 24/7 Technical Service

Worldwide spare parts and maintenance services are provided.

# Why choose the Rotating Biological Disk?

Quotations from  
our reference  
letters...

*“...one our most recent system for Boarder Force for the Australian Government we are achieving effluents... of BOD 10.0 mg/l and Suspended Solids of 15.0 mg/l. The PlanetTEK/Heal System meets these requirements and exceeds. RBC technology has advance from being a simple mechanical biological filter and well engineered with stable conditions with and good operation will be an economical and energy efficient means of sewage treatment.*

*David Herbert,  
HEAL Group of Companies, Brisbane,  
AU*

*“...The RBC Biological Wastewater Treatment System has won our admiration with its easy maintenance, lack of odor, and very low energy consumption. We also appreciate your team's professional approach to problem-solving...”*

*Mesa Mesken San. A.Ş.*

*“...The PlanetDISK® RBC system is preferred by our customer BP, especially for its easy maintenance, reliable, and consistently effective treatment results in their stations worldwide. Biodisc technology has proven to be the perfect choice in terms of low energy costs as well... If we needed wastewater treatment units today, we would choose the RBC technology and your company without hesitation.”*

*TEKFEN Construction and Installation Co. Inc. – Partner to BP BTC Pipeline Construction*

We are one of the 15 companies worldwide that produce Rotating Biological Contactor units according to international standards.



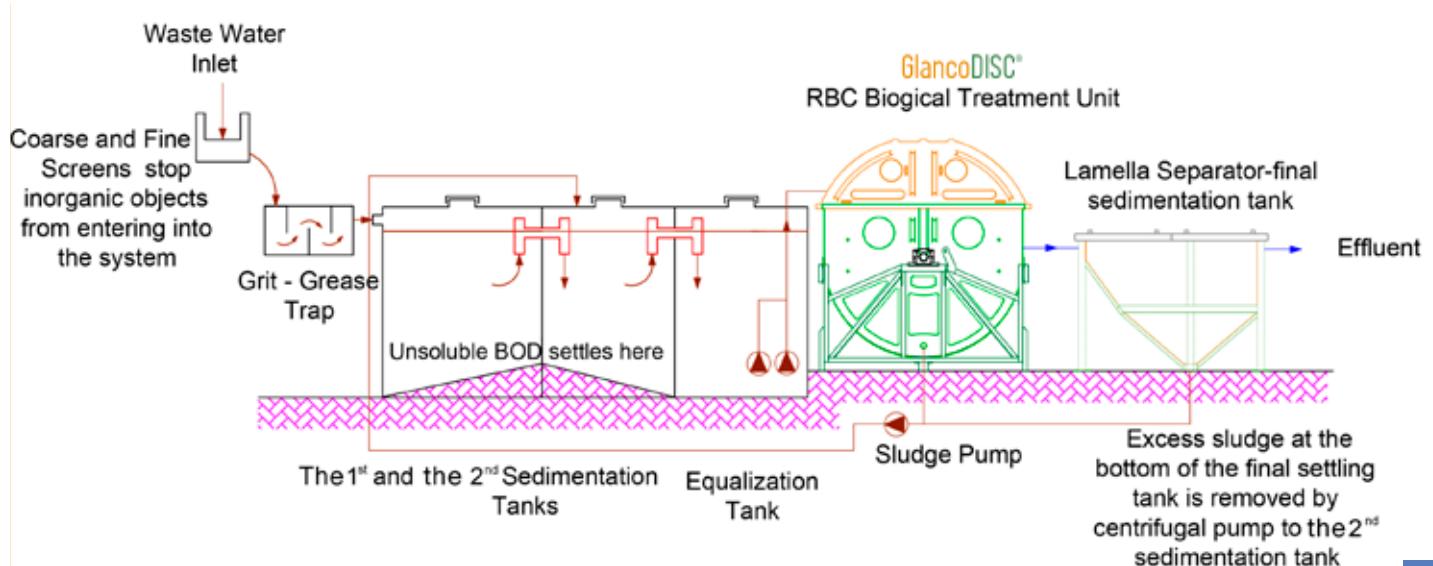
**Our first unit, which has been successfully operating in Iskenderun since 2005, marks a milestone in our achievements.**

# The Operating Principle of the RBC System



1. GlancoDISC® unit is a fixed film system where disks made of corrosion-resistant, specially formulated, high-density polypropylene (HDPP) material are arranged side by side on an epoxy-coated steel shaft, rotating at a speed of 3-4 revolutions per minute.
2. Before introducing wastewater into the Rotating Biological Contactor system, it must pass through the inlet structure, consisting of a screen and grease trap, and then through sedimentation tanks. It should be noted that in the biofilm method, the bacteria to be retained on the disks consume only soluble BOD in the wastewater.
3. 40% of the disks on the shaft are submerged in wastewater. The bacteria formed on the disks (biological sludge) take in the oxygen needed to oxidize and “digest” organic matter in the water, as they rotate and emerge from the wastewater, in a natural way from the air. This leads to a rapid increase in the number of bacteria.
4. The formation of these bacteria occurs entirely naturally. The thickness of the biological sludge on the disks can vary between 1-2.5 mm, and the accumulating sludge naturally detaches from the disk by decomposition. This ensures that the desired bacterial population is always present on the disks.
5. The treated water coming out of the Rotating Biological Contactor unit contains dead bacteria detached from the surface of the disks and some suspended solids. These bacteria must be settled in the final sedimentation unit or passed through filtration. After this stage, the treated water can be used for irrigation, car washing, cooling tower water, or toilet flushing following chlorination and passing through sand and activated carbon filter systems.

## Rotating Biological Contactor System Flow Diagram



# Technical Information

Facility Capacity – 40 – 4000 m<sup>3</sup>/day

BOD (organic pollution) and hydraulic load input-output values, depending on the water's other characteristics, for each unit's capacity = 40-85 m<sup>3</sup>/day

Required power for each unit = 0.37 kW

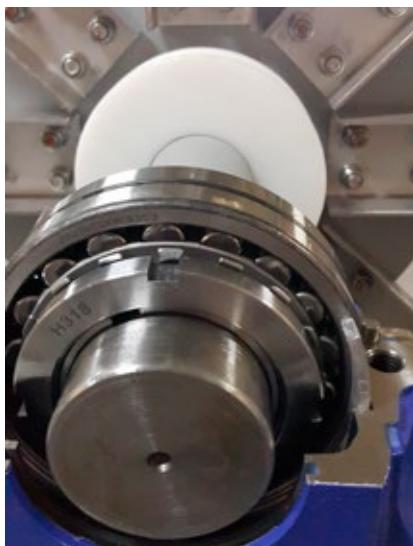
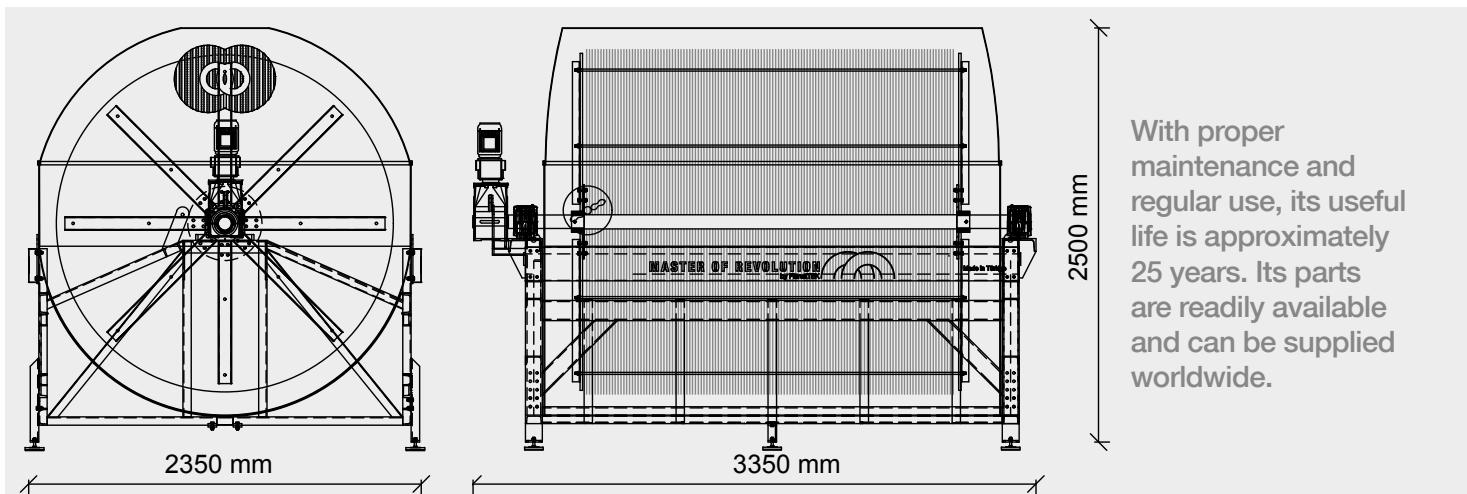
Surface area of each RBC unit disk = 650-850 m<sup>2</sup>

## MATERIALS RESISTANT TO CORROSION

- CTP/Fiberglass body (with UV Protection and other special Additives that will not harm the bacteria).
- HDPP (High-Density Polypropylene) Virgin Material Disks with Special Additives including UV Protection Additive. (min. 1.7 mm thickness, 2,050 mm diameter)
- Epoxy-coated or chrome-plated shaft, all materials in contact with water are galvanized or stainless steel.
- Heavy-duty, spherical bearings suitable for tough working conditions.
- Epoxy paint, resistant to corrosion or galvanized chassis frame.

## DELIVERY AND PACKAGING

- Unit dimensions = 2350mm x 3200mm x 2500mm (h)
- Unit empty weight ≈ 1900kg.
- Full weight ≈ 7500-8000kg.
- 3 Rotating Biological Contactor units fit into a 40ft HC container, and 4 units fit into a truck for transportation.



# 160 m<sup>3</sup>/day Capacity

## GlancoDISC® Rotating Biological Contactor Wastewater Treatment Plant

500-800 p.e. (Winter) - 600-1100 p.e. (summer)

### Wastewater Inlet Parameters

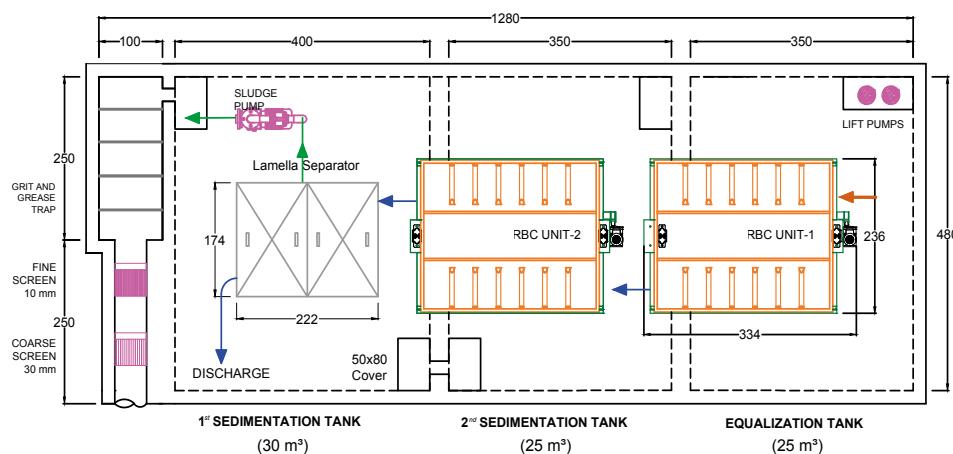
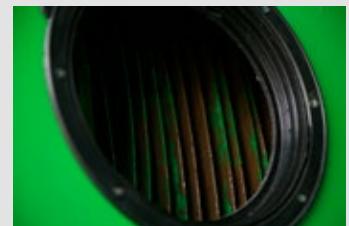
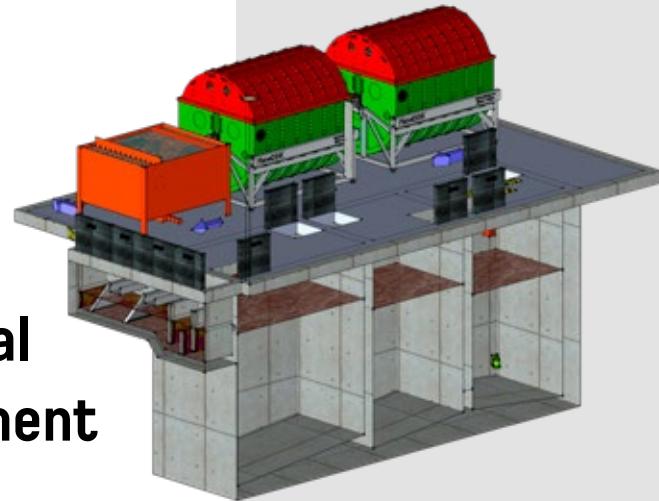
BOD = 300 mg/L  
Organic Load = <60 g/person-day  
Hydraulic Load = <200 L/person-day

### Treated Water Outlet Parameters

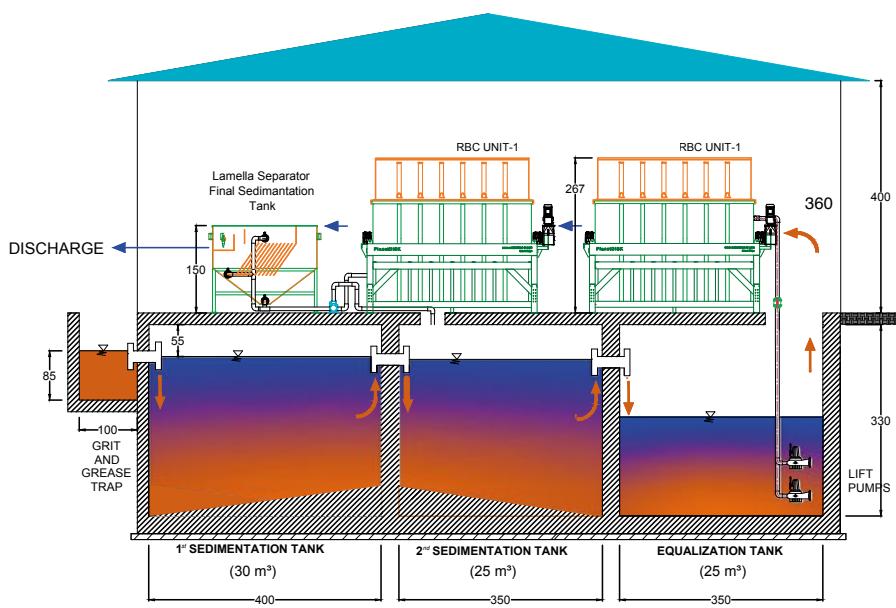
BOD < 25 mg/L

### Required Area

50-60 m<sup>2</sup>



The biofilm layer forms on the surface of HDPP disks. The rotation of the rotor provides air (oxygen) to the biomass. There is no need to monitor parameters such as Dissolved Oxygen, MLSS, SVI.



The required oxygen reaches the disks through the windows located on the unit cover. The use of the cover is optional and may not be used in some cases.

# Case Study

## BALIKESİR / TÜRKİYE

A treatment plant with a capacity of 350 m<sup>3</sup>/day using Rotating Biological Contactor Units is operated in the Balya and İvrindi districts of Balikesir. In İvrindi, some of the 5 RBD units located in the schools area are deactivated when schools are closed.

After experimenting with MBR (Membrane Bioreactor), SBR (Sequential Batch Reactor), and electrocoagulation technologies, BASKİ (Balikesir Water and Sewerage Administration) decided to utilize the Rotating Biological Contactor system.



In this project, as in all other municipalities, the most critical issues are energy efficiency and operational costs. The Rotating Biological Contactor has been the preferred choice for BASKİ due to its lower energy consumption compared to all known wastewater treatment technologies worldwide.



# Case Study

## BAYTOWN, TEXAS

## UNITED STATES OF AMERICA

A steel processing facility located in the Baytown, Texas region has been equipped with two Rotating Biological Contactor plants. Treatment plants, each with a capacity of 137 m<sup>3</sup>/day, for domestic wastewater treatment. Wastewater will be treated using two containers placed at different points within the factory. All electrical works have been carried out in accordance with UL certification standards, and all equipment has been selected to meet the export requirements of the United States. The wastewater input, discharge, and sludge lines in the field will be connected and operated using the plug-and-play method. It has been quickly made ready for shipment. Fieldwork has been minimized. All mechanical and electrical projects have been approved by the relevant authorities.



# Case Study

**Common feature in the villages of Çanakkale, Ankara, Amasya, Kırşehir, Australia, Greece, and Georgia:** Rotating Biological Contactor. All these villages treat their wastewater, and if necessary, reclaim it, with the common features of easy operation and energy efficiency.



Funded by  
the European Union



The total capacity of our Rotating Biological Contactor (RBC) system in the village of Vanessa, the 3rd largest city in Greece, is 1200 people.





Boğaziçi - Bosphorus University had previously used conventional treatment systems for many years. Due to the rising energy costs and frequent malfunctions of the blower-type equipment, the university administration decided to switch to the RBC system, which provides almost 80% energy savings.

Thanks to the Rotating Biological Contactor, there have been no noise or odor problems at the Boğaziçi University Kilyos Campus, and approximately €20,000 in energy savings is achieved annually. The energy needs are met with a wind turbine located on the campus, making it crucial for the treatment plant to be the least energy-consuming treatment technology. All the treated water is used for irrigating the green areas on the campus during the summer months, which was not possible with conventional treatment systems.

## Why did Bosphorus University switched to RBC Systems for 3500 people/day capacity waste water treatment?



## Case Study

**The wastewater treatment plant of Kırklareli Çakıllı Municipality with a capacity of 315 m<sup>3</sup>/day was tendered by İLBANK in the year 2021. İLBANK recognized the advantages of using RBC in small settlements in this project.**

In Turkey, conventional systems are generally used in urban and municipal wastewater treatment plants. Following the experiences gained over the years and the continuously improving quality of Rotating Biological Contactor applications, İLBANK deemed it appropriate to implement this technology in Çakıllı Municipality. The Rotating Biological Contactor system provides significant savings for public institutions when we consider the investment and operating costs up to certain capacities. Its easy operation, low energy consumption, minimal sludge formation, and reduced personnel requirements are the main factors contributing to these savings.



# Why did KfW German Development Bank make it a requirement to use Biodisk in the wastewater treatment projects it financed in Georgian villages?

Building wastewater treatment facilities for small populations is a challenge in itself. In large projects, there are technical staff and engineers to operate the facility. However, in small areas, this may not be feasible or possible at all. The system should have low energy costs and easy maintenance. For these reasons, KfW has made the Biodisk system a requirement for sustainable small-scale wastewater treatment projects. Taking into account the long-term experience and international references of PlanetTEK Inc., KfW has chosen the Biodisk system, which is 100% Turkish-made, over its European competitors.

In the KfW tender documents, the reasons for choosing RBC are stated as follows:

- Low energy consumption
- Safe operation with low maintenance
- Does not require Process Engineering
- Easy and stable operation with minimal supervision
- Modular system that saves space
- Capacity can be increased and Nitrogen and phosphorus removal can be achieved through the addition of units.



The reasons for choosing RBC are clearly stated in the tender announcement made by KfW above.

## Case Study



The wastewater treatment system with a capacity of 1500 m<sup>3</sup>/day and consisting of 21 units for the Riyadh, Saudi Arabia Military Airbase was manufactured for VEOLIA.



Why do prestigious companies in Türkiye such as MESA, TEKFEN, and globally respected firms like VEOLIA France, METITO Qatar, ARAMCO Saudi Arabia, esteemed institutions/organizations like KfW, EU, NATO, UN, İLBANK, TOKİ, AZERSU, the Australian Government, the Ministry of Justice, and the Turkish Armed Forces trust us?

We are an engineering and contracting company that has repeatedly proven its success with numerous Project Approval Files and Environmental Permit documents. Our systems, manufactured in our Istanbul factory since 2004, and our project experience on five continents are preferred worldwide. Our Rotating Biological Contactor unit is one of fewer than 15 registered brands worldwide. Proudly manufactured in Türkiye according to European standards, it is CE certified.

# Case Study



## Hatay Temporary Earthquake Housing (Konteyner Kent)

### PROBLEMS:

Energy Problem, Qualified Operation Personnel, Odor, Noise, Variable Organic and Hydraulic Load, Urgent Needs

**How should the wastewater of a container city, prepared for a temporary period with problems of energy and qualified personnel, be treated?**

A solution has been provided for the treatment of domestic wastewater using the Rotating Biological Contactor technology in a facility designed to minimize construction needs. The entire facility is designed to require minimal construction. There is no need for personnel constantly maintaining the treatment plant. The RBC system, which provides an 80% energy saving compared to conventional systems and does not create noise or odor, can be easily transported and used in villages, agricultural areas, schools, and hospitals when people move to permanent living spaces. With simple and periodical maintenance, the system will serve for many years. The manufacturing and electromechanical assembly of the treatment plant, including transportation and commissioning took only a total of 16 days.

CAPACITY : 150 m<sup>3</sup>/day    INLET BOD : 300 mg/l    OUTPUT BOD : 25 mg/l

### COMPARISON OF ROTATING BIOLOGICAL CONTACTOR (RBC) SYSTEM AND AERATED ACTIVATED SLUDGE SYSTEM WITHIN THE 15-YEAR ECONOMIC LIFESPAN

Investment, energy, personnel, sludge disposal, maintenance, repair, and spare part costs are included.

Total Savings over 15 Years :

**285.981 €**

### COMPARISON OF RBC SYSTEM AND MBR SYSTEM WITHIN THE 15-YEAR ECONOMIC LIFESPAN

Investment, energy, personnel, sludge disposal, maintenance, repair, and spare part costs are included.

Total Savings over 15 Years :

**391.740 €**



MARDİN BÜYÜKŞEHİR BELEDİYESİ  
MARDİN SU VE KANALİZASYON İDARESİ  
GENEL MÜDÜRLÜĞÜ

# Mardin Sürgücü Town Wastewater Treatment Plant

## PROBLEMS:

Qualified Operation Personnel, Difficult Access to Energy (Desire to Use Renewable Energy), Poor-Old Infrastructure.

**Why does Sürgücü, a town in Mardin with a population of 4500 people, have a Rotating Biodisk instead of the activated sludge system found in other villages and towns?**

Mardin and other cities in the Southeast face water shortages. One of the most effective ways to protect limited clean water sources is to ensure that wastewater is treated, preventing it from polluting limited resources. Mardin Water and Sewerage Administration (MARSU), being sensitive to the issue, sought a sustainable solution, considering its past negative experiences with wastewater treatment. The Biyodisk system can be operated with solar energy due to its low energy consumption. It is easy to maintain. For these two main reasons, MARSU's preference has been the Biyodisk.

Moreover, in old infrastructures where stormwater mixes with wastewater, hydraulic load increases. The Biyodisk system is the most tolerant among known technologies against flow and pollution fluctuations.



CAPACITY : 800 m<sup>3</sup>/day    INLET BOD : 300 mg/l    OUTPUT BOD : 45 mg/l

## COMPARISON OF ROTATING BIOLOGICAL CONTACTOR (RBC) SYSTEM AND AERATED ACTIVATED SLUDGE SYSTEM WITHIN THE 15-YEAR ECONOMIC LIFESPAN

Investment, energy, personnel, sludge disposal, maintenance, repair, and spare part costs are included.

Total Savings over 15 Years : **689.039 €**

## COMPARISON OF RBC SYSTEM AND MBR SYSTEM WITHIN THE 15-YEAR ECONOMIC LIFESPAN

Investment, energy, personnel, sludge disposal, maintenance, repair, and spare part costs are included.

Total Savings over 15 Years : **764.337 €**

# Case Study NATO Military Base, Kosovo



NATO officially chose the Rotating Biological Contactor technology for the following reasons:

1. Operability without the need for trained personnel
2. Low energy requirements
3. Reliable and consistently high-quality treatment even in cold weather conditions

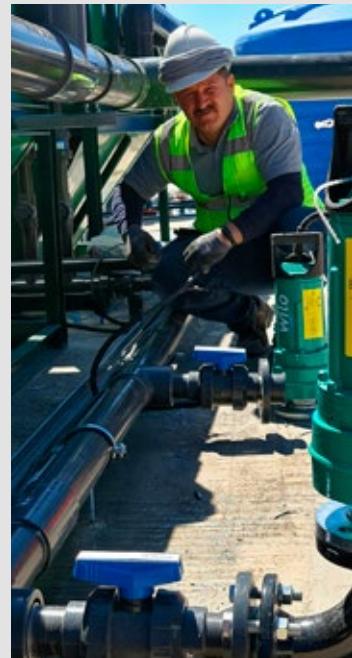
The Rotating Biological Contactor, proudly manufactured in Türkiye, has successfully passed rigorous field/factory tests conducted by NATO engineers. We take great pride in being chosen over British, French, Italian and German RBC manufacturers.



Investment, energy, personnel, sludge disposal, maintenance, repair, and spare part costs are included in tender. Our system is consistently delivering excellent performance in cold weather conditions since 2020.

In this project, nitrogen and phosphorus are also removed.

**CAPACITY : 257 m<sup>3</sup>/day**  
**INPUT BOD : 300 mg/l**  
**OUTPUT BOD : 25 mg/l**





## Coca-Cola Elazığ Türkiye Factory

Coca-Cola chose the Rotating Biological Contactor (RBC) system due to its low carbon footprint and energy consumption. Additionally, the system's placement at the factory entrance played a crucial role in minimizing noise and odor. With RBC technology, the industrial wastewater is biologically treated at a rate of 680 m<sup>3</sup>/day, and a portion of it is reclaimed for irrigation purposes. The system is highly adaptable to capacity increases, presenting an additional advantage.

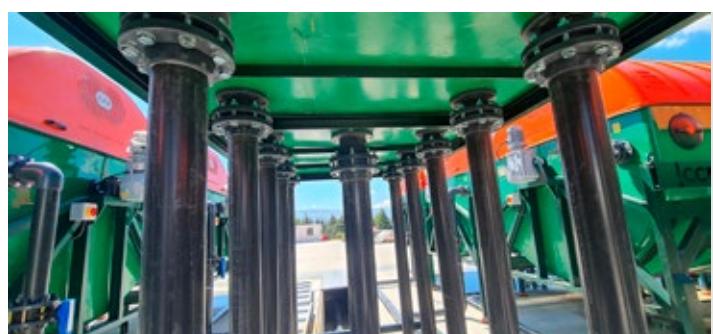
**CAPACITY : 680 m<sup>3</sup>/day**

**INPUT COD : 3.500 mg/l**

**OUTPUT COD : 1.000 mg/l**

**Key features of the 680 m<sup>3</sup>/day WWTP**

**include construction and turnkey project delivery.**





## Different Installation Methods for RBC Equipment

Simple pools shaped like bathtubs will reduce space requirements and overall costs by cutting costs of fiberglass body and steel chassis. Rotating Biological Contactor rotors are mounted inside these pools.



Rotating Biological Disks assembled in containers are used in various facilities. The plant can be operated with minimal construction requirements using polyethylene tanks.

In construction sites, refugee camps, and similar locations, the **“PLUG-AND-PLAY”** plant inside a container can be relocated to another place when the project is over.



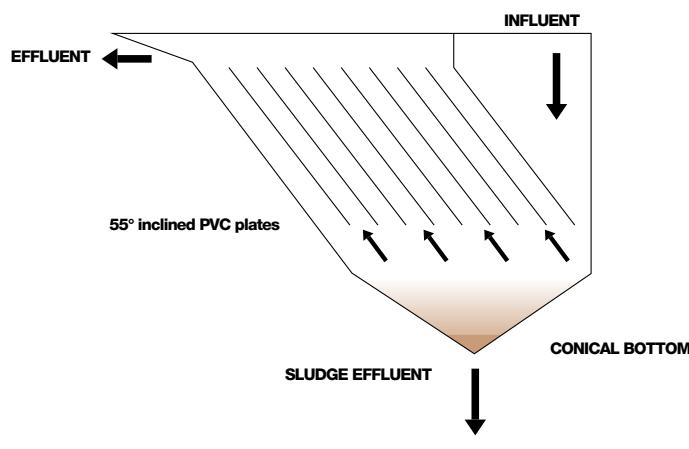
Saudi Arabia ARAMCO Pipeline Project



The portable mobile wastewater treatment system was built in Australia for rental purposes.



## The Lamella Separator Used for Final Sedimentation and Other Equipment Manufactured at our Factory



### OTHER EQUIPMENT MANUFACTURED AT OUR FACTORY:

- COARSE SCREEN
- FINE SCREEN
- BASKET SCREEN
- PIPE FLOCCULATOR
- RAPID and SLOW MIXERS
- GANTRY CRANE
- PENDULUM
- FLOW DISTRIBUTION STRUCTURE
- CTP SCREEN STRUCTURE (WITH CHASSIS)
- AUTOMATIC POLYMER PREPARATION UNIT

### PROBLEMS: FINAL SEDIMENTATION TANK (LAMELLA)

- Lamella final sedimentation tanks provide efficient sedimentation in small volumes at high hydraulic loads by increasing the active surface area. Plastic lamella plates, placed at a 55° angle inside the unit, increase the surface area. The solid particles pass between the PVC plastic plates, resulting in clear water at the outlet.
- The sludge accumulated at the bottom of the unit is removed periodically with a sludge pump. The sludge pump works for 1-2 minutes per hour to efficiently remove the sludge at the conical bottom.
- Lamella separators take up very little space compared to conventional sedimentation to concrete tanks and do not consume energy.

### MATERIALS USED IN MANUFACTURING:

- Fiber Glass body
- PVC Lamella Plates
- Epoxy painted, Galvanized, or ST 37 Carbon steel chassis

# OUR PRIDE LIST



# Our Worldwide Pride List

(Partial List)

- SIDERIDRAULIC SYSTEM, ITALY – INDUSTRIAL ESTABLISHMENT – TEXAS, USA
- DÖVEÇ CONSTRUCTION COMPANY – LONG BEACH PANORAMA RESIDENCES – NEW DOCK BEACH PROJECT –
- NEWTECH – DURA HOSPITAL – PALESTINE
- ORIENT ENGINEERING – ISLAMABAD SHIFA HOSPITAL – PAKISTAN
- ABCO WATER SYSTEMS – NEWMONT TWINHILL VILLA PROJECT – AUSTRALIA
- AGE/AZERSU – ALAT FREE ECONOMIC ZONE – AZERBAIJAN
- METITO – RESIDENTIAL SITE PROJECT – SAUDI ARABIA
- VEOLIA - MILITARY BASE - RIYADH, SAUDI ARABIA
- ORIENT ENGINEERING – CANCER CARE HOSPITAL & RESEARCH CENTER – PAKISTAN
- TML CONSTRUCTION – MISURATA FREE ZONE – LIBYA
- HEAL GROUP OF COMPANIES - CUNNAMULLA TOWN – AUSTRALIA
- ORIENT ENGINEERING – EMAAR RESIDENCES, KARACHI – PAKISTAN
- PROTECH AL - NATO MILITARY BASE – PRISTINA, KOSOVO
- METSITEC WATER RECYCLING SYSTEMS - HUMMINGBIRD PROJECT SOUTH AFRICA
- MULTI WASTE LTD - GABORONE SETTLEMENT AREA BOTSWANA
- EL ZEYTUNE SCIENCE AND TECHNOLOGY UNIVERSITY - SALFEET, PALESTINE
- METITO - ANSE AUX PINS HOTELS - SEYCHELLES
- ABCO WATER SYSTEMS - GOLD MINE CAMP SITE - AUSTRALIA
- XELERA - THYSSEN KRUPP FACTORY - PUEBLA, MEXICO
- SOLIS S.A. CONSTRUCTION COMPANY - LARISA CITY VILLAGES - GREECE
- DDFC LTD. - MANGLA DAM CAMP AREA - PAKISTAN
- HEAL TREATMENT - AUSTRALIAN GOVERNMENT REFUGEE CAMP - PAPUA NEW GUINEA
- ARAMCO - JEDDAH YANBU PIPELINE CAMPS - SAUDI ARABIA
- ECETAS CONSTRUCTION - FINANCED BY KFW GERMAN BANK, CHAKVI VILLAGE - BATUM, GEORGIA
- AQUAFELIX - ITALIAN HOSPITAL - DJIBOUTI
- METITO – WAREHOUSE PROJECT - DOHA, QATAR
- CAPITAL WATER (CHILE) - LUXURY RESIDENTIAL PROJECT - GHANA
- JOB SITE – CHEVRON OIL DRILLING SITE - KAZAKHSTAN
- ENKA CONSTRUCTION - DAM CONSTRUCTION SITE - ALGERIA

# Our Pride List In Türkiye

(Partial List)

- UNDP&DKM – EXPO CENTER EARTHQUAKE ZONE CONTAINER CITY PROJECT – HATAY
- BILKENT UNIVERSITY – ANKARA
- COCA-COLA ELAZIG FACTORY (INDUSTRIAL)
- ISTANBUL BEYKOZ MUNICIPALITY – PARKS AND GARDENS DIRECTORATE
- ÇAKILLI VILLAGE – ILBANK PROJECT – KIRKLARELI (PUBLIC PROJECT)
- GENERAL STAFF PRESIDENCY - GARRISON, MILITARY BASE - ANKARA
- CİITLEKÇİ TUNCLAR HIGHWAY BUS TERMINAL – KIRIKKALE
- BARTONE CONSTRUCTION – NİĞDE PROVINCIAL ADMINISTRATION – CIFTEHAN THERMAL TOURISM AREA (PUBLIC PROJECT)
- PROJECT SYSTEM – AFAD HOUSES – ILBANK – EZİNE, CANAKKALE (PUBLIC PROJECT)
- CANAKKALE PROVINCIAL ADMINISTRATION - BIGA, KEMER VILLAGE (PUBLIC PROJECT)
- BİLİSIM VADİSİ TECHNOLOGY DEVELOPMENT – KOCAELİ
- PUPA LTD. - GARANTI KOZA – ENERGY POWER PLANT - BODRUM, MUGLA
- CANAKKALE PROVINCIAL SPECIAL ADMINISTRATION – TECHNOPARK TECHNOLOGY DEVELOPMENT ZONE INC. (PUBLIC PROJECT)
- NORM CONSTRUCTION – FIERRA VISTA HOUSES - BODRUM
- ÇINAR ELITE CONSTRUCTION – SOUL OF BODRUM – BODRUMM
- KIRSEHIR PROVINCIAL SPECIAL ADMINISTRATION – YAYLAÖZÜ VILLAGE – KIRSEHIR (OPERATING WITH SOLAR ENERGY) (PUBLIC PROJECT)
- BASKİ BALIKESİR WATER AND SEWERAGE ADMINISTRATION – İVRİNDİ DISTRICT – BALIKESİR (PUBLIC PROJECT)
- EMT CONSTRUCTION – TOKİ – KERİM KOK BARRACKS – SEREFLIKOCHISAR, ANKARA (PUBLIC PROJECT)
- AMASYA PROVINCIAL SPECIAL ADMINISTRATION – KAYABASI VILLAGE (PUBLIC PROJECT)
- BOGAZICI UNIVERSITY CAMPUS – KİLYOS, İSTANBUL
- LE MERIDIEN - MILA'S DAPHNE RESIDENCE - BODRUM, MUGLA
- İNANLAR CONSTRUCTION - VALLEY TERRACE - ZEKERİYAKOY, İSTANBUL
- MARSU MARDİN WATER AND SEWERAGE ADMINISTRATION (WITH SOLAR PANEL) – SURGUÇU (PUBLIC PROJECT)
- EDİRNE PROVINCIAL SPECIAL ADMINISTRATION – SULTANICE, GULCAVUS, KUCUKEVREN VILLAGES (PUBLIC PROJECT)
- TEKFEN – BRITISH PETROLEUM- BTC PT1 – POSOF, ARDAHAN
- İSTANBUL METROPOLITAN MUNICIPALITY DRAGOS SOCIAL FACILITY – İSTANBUL (PUBLIC PROJECT)
- MESA CONSTRUCTION – ADNAN MENDERES CULTURE CENTER – YASSIADA, İSTANBUL
- UNILEVER LIPTON TEA – DIKKAYA VILLAGE – SOCIAL RESPONSIBILITY PROJECT – RİZE
- İGNEADA MUNICIPALITY – KIRKLARELI (PUBLIC PROJECT)
- ASKİ ANKARA WATER AND SEWERAGE ADMINISTRATION – UPPER CAVUNDUR VILLAGE (PUBLIC PROJECT)





## RBC or conventional systems?

### RBC

### Activated Sludge System

Carbon Footprint	It has the minimum carbon footprint among all known wastewater treatment technologies.	✓	It has 6-7 times more carbon footprint compared to Rotating Biological Contactor technology.
Noise Level	Very low noise level <60db.	✓	Disturbing roar >90 db.
Odor	Virtually non-existent.	✓	High
Corrosion and Decay	All metal components in contact with wastewater are either stainless steel or hot-dip galvanized. PP and PE materials are durable for a minimum of 50 years. The chassis metal material is galvanized or epoxy coated.	✓	Typically, excessive rusting and corrosion occur within 3-4 years.
Maintenance	A system that does not require continuous supervision and complex measurements. The bacterial film accumulated on the surface of the Biyodisk units' disks naturally falls off. It does not require special maintenance except for lubricating the bearings once a month and washing the lamella separator unit for 15-20 minutes once a week. Regular cleaning of the existing grid in each treatment plant is important.	✓	Requires maintenance. It may be necessary to decide on the discharge of excess activated sludge. The stable operation of such a system, where the human factor is crucial, is challenging.
Energy and Operating Cost	It is the least energy-consuming system among all known wastewater treatment methods, with an energy cost of \$0.1 per person per month. Due to the low number of moving parts, the need for spare parts is minimal.	✓	Due to the powerful blower, it consumes 8-9 times more energy. Blower and diffusers frequently experience malfunctions.
Space Requirement	It occupies 50% less space. In the area of a 2.5 m x 3 m PlanetDISK® unit, more than 750m <sup>2</sup> of disk surface can be accommodated.	✓	It may require twice as much space compared to Biyodisk units.
Sludge Quantity and Characteristics	It is half the amount of sludge generated in other systems.	✓	Intensive generation of concentrated sludge.
Operation and Parameter Monitoring	There is no need for any instrument as there are no parameters to be monitored. Sludge return is not performed.	✓	Dissolved Oxygen, SVI, and MLSS should be monitored by continuously trained personnel, requiring additional instruments and laboratory equipment for this purpose.



### On-Location, Decentralized RBC Systems are most commonly used at such sites:

Domestic and Industrial Wastewater, Residential Areas, Hotels, Schools, Factories, Camps (Displaced and Refugee), Construction Sites, Mining Fields, Shopping Malls and Stadiums, Prisons, Mass Housing, Greywater treatment



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