

*ENVIRO-PURE FOUNDATION - Netherlands &
ENVIRO-PURE (ASIA) LP - Thailand present:*

PlanetTEK ENVIRONMENT &
TREATMENT TECHNOLOGIES INC.

A KEY PLAYER IN DOMESTIC WASTEWATER
TREATMENT BUSINESS IN TURKEY IS
BECOMING GLOBAL



*We are one of the best companies for the world!
And we are proud of it!*





PlanetDISK®

MASTER OF REVOLUTION
by PlanetTEK

90% Savings in OPEX!
This is Revolution

GERMAN 
Technology

Made in

Türkiye



Chiang Mai- Thailand, January 1, 2021.

ENVIRO-PURE FOUNDATION and its affiliated company ENVIRO-PURE (ASIA) Limited Partnership have pleasure to introduce to ASEAN the PlanetTEK Rotary Biological Contactor (RBC) manufactured in Turkey and installed worldwide since 2003.

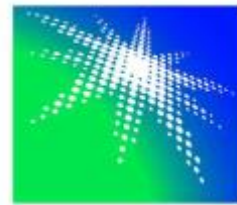
In the early days of our activities in Europe we already worked with this, originally German, invention of the mid-1970-ies, to disinfect the biologically treated effluent of RBC-s to be used for irrigation and general cleaning for remote housing estates and small industry.

The addition of the PlanetDISK systems to our program for drinking water and wastewater treatment solutions complements our offerings of State-of-The-Art, well proven, robust and reliable equipment in South-East Asia and Pacific from our base in Thailand through our network of dedicated and experienced representatives.

With this document PlanetTEK and ENVIRO-PURE GROUP give an impression of the achievements in the last 18 years with hundreds of RBC-installations in a wide variety of sizes and applications, often in very remote areas under challenging climatic conditions.

We trust this introduction demonstrates our continuous efforts to select the most appropriate technologies and services for water treatment solutions .

SELECTED CORPORATE CUSTOMERS



SAUDI ARABIA MILITARY BASE



World's largest environment technology company Veolia France, also a manufacturer of RBC units, preferred PlanetTEK for a very strategic project in Kingdom of Saudi Arabia.



VEOLIA - Fransa firmasının S. Arabistan tesislerinde 21 adet PlanetDISK® ünitesi!



Capacity: 1500 m³/day.

Location: Riyadh, KSA.

Purpose: The system is installed for domestic wastewater treatment in military base.



PAKISTAN- EMAAR PROJECT

The wastewater treatment of the luxury EMAAR residence complex in Pakistan within the scope of cooperation with Orient Engineering Services Company will be completed within 2020 by PlanetTEK.

Location: Karachi, PAKISTAN.

Purpose: The system is installed for domestic wastewater treatment in luxury residence complex.



PAKISTAN-CANCER CARE HOSPITAL PROJECT

Wastewater treatment of Cancer Care Hospital in Pakistan will be completed within 2020 by PlanetTEK in cooperation with Orient Engineering Services Company.



Location: Lahore, PAKISTAN.

Purpose: The system is installed for domestic wastewater treatment in Cancer Care Hospital.



SİVAS DİVRİĞİ HOSPITAL PROJECT-TURKEY

Wastewater treatment of Sivas Divrigi Hospital
completed by PlanetTEK in 2013.

Location: Sivas, TÜRKİYE.

Purpose: The system is installed for domestic
wastewater treatment in Sivas Divrigi Hospital.



GHANA LUXURY HOUSING



Capacity: 190 m³/day.

Location: Prabon, Ghana.

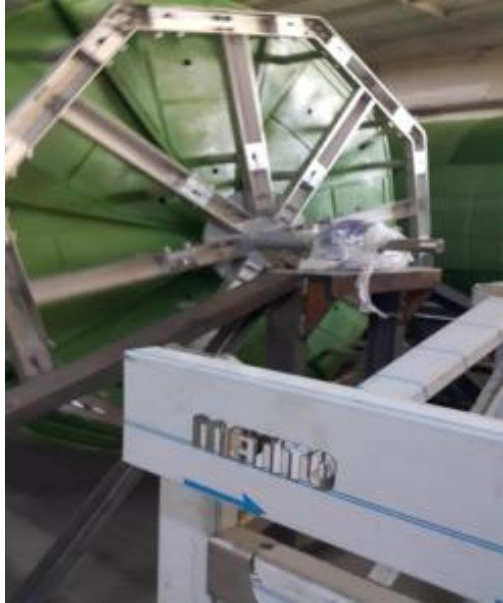
Purpose: The system is installed in luxury housing estates.

CAPITAL WATER is a Chilean Company.

90% Savings in OPEX!
This is Revolution

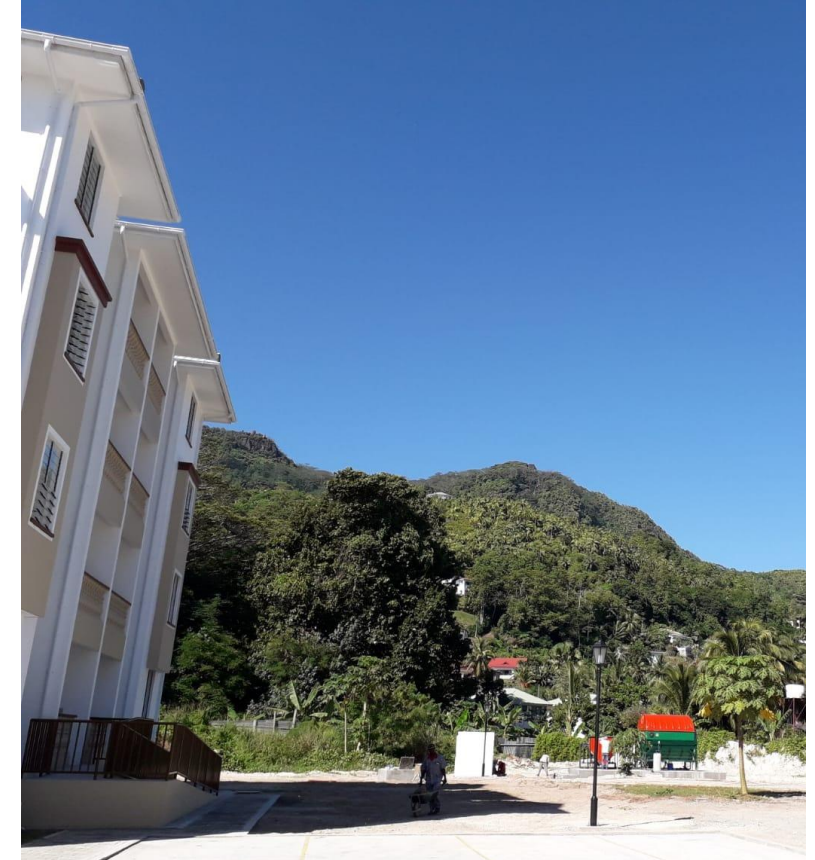


METITO (UAE) PROJECTS



Project 1: Doha, Qatar - State warehouses

Project 2: Victoria, Seychelles - Luxury Housing estates



AUSTRALIA GOVERNMENT PROJECT



HEAL GROUP



A u s t r a l i a



Capacity: 225 m³/day.

Location: Island of Manus/ Papua New Guinea.

Purpose: The system is installed at Refugee camp.





Location: Island of Manus/ Papua New Guinea.

The system is installed at Refugee camp.



WASTEWATER OF AUSTRALIAN CUNNAMULLA VILLAGE IS TREATED BY PLANETEK AND OUR SOLUTION PARTNER; HEAL GROUP BASED IN BRISBANE!

MADE IN TÜRKIYE



AUSTRALIA GOLD MINE PROJECT



Capacity: 210 m³/day.

Location: Perth, Australia.

Purpose: The system is rented to a mine company.





ABCO Environment and Treatment Co of Australia is established in 1948. They are experts in many treatment technologies and yet they are re-establishing their strategies again with RBC from PlanetTEK.

PlanetTEK is proudly exhibited at ABCO Social Media pages! 😊



GEORGIA BATUMI VILLAGE PROJECT



Capacity: 190 m³/day.

Location: Batumi, Georgia.

Purpose: The system is installed at 2 different villages.

90% Savings in OPEX!
This is Revolution





WHY DID KFW, GERMAN INVESTMENT BANK, GAVE THE FUNDS TO STATE OF GEORGIA UNDER ONE CONDITION?

Rehabilitation of Municipal Water Supply & Wastewater Infrastructure in Batumi – Phase III

Georgia Municipality of Batumi – German Financial Co-operation with
Georgia

6.5 Recommended Option: Rotating Biological Contactors (RBC)

As the land requirements for the implementation of constructed wetlands are out of scale, particularly considering Area C, the Consultant investigated to identify another treatment option that would result in (at least) comparable effluent qualities while saving land. A prerequisite was that the process operates stable, with limited operation and maintenance requirements and that the concept can be amplified and is sustainable.

The biological treatment process based on rotating biological contactors was identified as a suitable solution.

The advantages of the process are:

- low energy consumption
- reliable operation at minimum expenditures for maintenance
- no process engineering required
- optimal biological regeneration due to open and easy to control surfaces
- Bearings and axles are located above water level thus all parts of the discs are exposed to oxygen
- Simple and stable to operate, limited supervision requirements.
- Compact design in order to save space
- The system is composed of modules. An extension of the plant (as well as an increased treatment efficiency with regard to N- and P-removal) can be achieved by adding further modules

Advantages of the process:

- Low Energy
- Safe operation with low maintenance
- No Process Engineering required
- Easy and stable operation with little supervision
- Space-saving modular system

GREECE VILLAGES WWTP

1.2. General process information

In order to select the most appropriate method to treatment the municipal wastewater of the current project, the possible alternatives were considered and evaluated. The method chosen ultimately is that of Rotating Biological Contactor (RBC) Technology.

The Rotating Biological Contactor is a technology that combines many of the activated sludge system and biological filters advantages. With the rotation of the biological disks, effective aeration and contact of wastewater and biomass is carried out in order to achieve high organic load removal and in some cases nitrification. Rotating discs have significant similarities to biological filters and both systems are based on the creation of a layer of adhesive biomass for biological wastewater treatment. However, unlike biological filters, rotating disks require much less space as disk configuration allows larger biomass retention in a relatively limited volume and they do not have problems with attracting insects because the alternating immersion of the discs in the liquid prevents their growth.

The rotating biological disk systems are simple to operate, flexible, without complex mechanical parts and, above all, with low power consumption. In summary, the advantages of rotating biological disc systems include:

- High organic load removal
- System stability in both hydraulic fluctuations and organic load fluctuations
- System adaptability (can be adapted to small communities)
- Weather reliability regardless of weather conditions - Cold resistance (closed systems)
- Small required area
- Easy separation of excess sludge in final settling tanks
- Low energy consumption and generally low operating costs
- Low noise
- Low production of excess sludge

WHY DID GREEK GOVERNMENT CHOOSE ROTATING BIOLOGICAL CONTACTOR?

- High organic load removal
- System resistant to hydraulic and organic load fluctuations
- Perfect for small residential areas
- In case the facility is closed, resistant to cold weather
- It can be adapted to small areas.
- Sludge can be easily settled in the final sedimentation tank
- Low energy and operating costs
- Low noise level
- Low sludge production level

NATO PROJECT, PRISHTINA - KOSOVO

WHY DID NATO CHOOSE OPTION 2; RBC OVER OPTION 1; ACTIVATED SLUDGE METHOD?

1.2 WWTP AT THE PROJECT STATUS

In the Value Engineering Study have been described three different plant configurations that allow to achieve the set identified goals. All the treatment schemes are characterized by the presence of compartments of similar characteristics regarding the pre-treatment section, the final disinfection and the excess sludge storage and thickening. Instead, they differ from each other about the “heart” of the purification process, represented by the biological treatment section, designed for complete nitrogen removal (nitrification + denitrification).

The three solutions can be summarized as:

- **OPTION 1:** MLE (*Modified Ludzack-Ettinger*) scheme with suspended-growth biomass pre-denitrification+nitrification;
- **OPTION 2:** Suspended-growth biomass pre-denitrification + Attached-growth biomass oxidation/nitrification in rotating biological contactors (RBC);
- **OPTION 3:** Sequencing Batch Reactors (SBR).

In the Value Engineering Study are described in detail the three options, the estimated construction and operation costs and is suggested the Option 1 as the best option.

SHAPE, JFCNP and KFOR have reviewed the three options and have agreed identifying the option 2 as the preferred option. The motivations that led to this choice are the following:

- lowest degree of automatization;
- lowest presence of management personnel;
- least amount of total volume of reinforced concrete tanks.

In their experience with utilities for contingency basin, simpler solutions with lower maintenance/operating cost (O&M) requirements work the best, even if they have a higher capital cost. Simplicity and O&M requirements should be weighted heavier in decision making for military contingency basing infrastructure and, therefore, Option 2 results a better choice than Option 1, which instead has a better cost/benefit ratio from a monetary perspective.

Option 2, moreover, is better for what concerns noise pollution, increase of O&M costs over time and for what concerns flexibility, as explained below.

NATO PROJECT, PRISHTINA - KOSOVO

1.2.1 NOISE POLLUTION

Option 2 is the best from the noise emissions point of view: the absence of noisy equipment machinery allows not to provide soundproof cabins or the installation of blowers in additional closed rooms, foreseen for Option 1. This can avoid complaints from local neighbourhood.

1.2.2 INCREASE OF O&M COSTS OVER TIME

Costs for electricity are increasing in Europe and local wages in Kosovo might increase as well in the upcoming years. Option 2 requires higher capital costs than option 1 but the difference between Option 1 and Option 2 becomes less important as the lower O&M requirement pays off years earlier.

1.2.3 FLEXIBILITY

Option 2 allow to have a subsequent plant expansion in future thanks to the modular treatment compartments. This is an important advantage from the operational level.

3.2.4 PROCESS AND FLOWCHART

- Sewer arrival pit, point of delivery of wastewater from the three existing sewage pumping stations.

NATO PROJECT, PRISHTINA - KOSOVO

**MADE IN
TÜRKİYE**

Wastewater treatment of the NATO military base in Kosovo Prishtina will be completed within 2020 by PlanetTEK.



Purpose: The system is installed for domestic wastewater treatment in military base.



SAUDI ARABIA OIL PIPELINE CONSTRUCTION SITE

ارامكو السعودية
Saudi Aramco



PlanetDISK[®] RBC Units are installed in the containers to treat wastewater of the Labour camp sites for ARAMCO Yanbu pipeline project in Saudi Arabia.

Capacity:

- 100 m³/day
- 100 m³/day
- 150 m³/day



CONSTRUCTION COMPANIES CONSTRUCTION SITES WWTP REQUIREMENTS



Garanti KOZA CONSTRUCTION — Ören Mugla, Türkiye

Sedimentation and Equalization tanks made of PE or GRP
can be placed above ground.
No need for extensive construction.



PAKISTAN- EMAAR PROJECT



The wastewater treatment of the luxury EMAAR residence complex in Pakistan within the scope of cooperation with Orient Engineering Services will be completed within 2020 by PlanetTEK.

Location: Karachi, PAKISTAN.

Purpose: The system is installed for domestic wastewater treatment in luxury residence complex.



PAKISTAN-CANCER CARE HOSPITAL PROJECT

Wastewater treatment of Cancer Care Hospital in Pakistan will be completed within 2020 by PlanetTEK in cooperation with Orient Engineering Services Company.

Location: Lahore, PAKISTAN.

Purpose: The system is installed for domestic wastewater treatment in Cancer Care Hospital.



GREECE VILLAGES STP



Capacity: 240 m³/day.

Location: City of Larissa Villages, Greece.

Purpose: The system is installed for City of Larissa villages for domestic use.

Project is funded by EU.



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GREECE VILLAGES STP

SOLIS A.E.
ΤΕΧΝΙΚΗ ΕΤΑΙΡΕΙΑ

**MADE IN
TÜRKİYE**



BOTSWANA PROJECTS



MEXICO FACTORY PERSONNEL WWTP

Xelera

**MADE IN
TÜRKİYE**



Capacity: 130 m³/day.

Location: Puebla, Mexico.

Purpose: The system is installed for ThyssenKrupp factory personnel in Mexico.

ThyssenKrupp

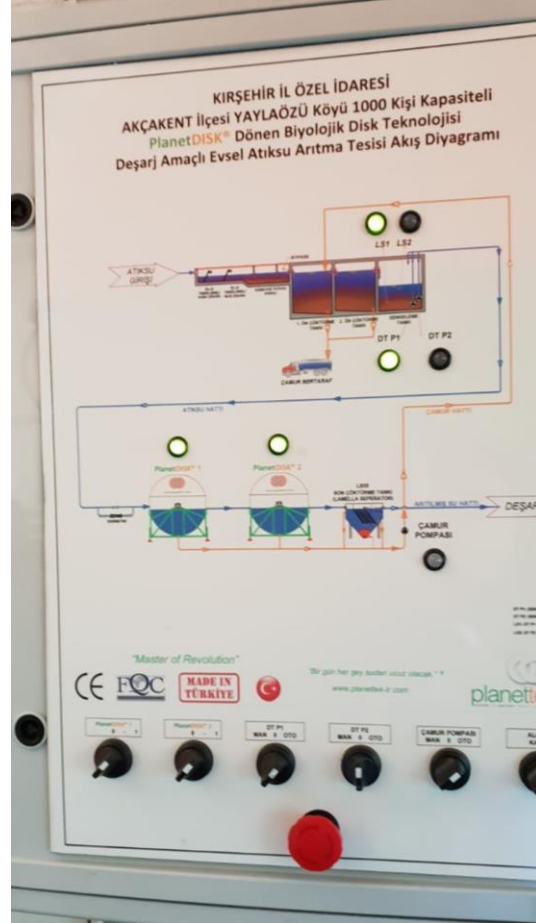


STATE PROJECTS IN TURKEY

26 villages— 7 in Çanakkale, 4 in Edirne, 2 in Amasya, 2 in Balıkesir, 2 in Kırklareli Igneada, 4 in Ankara, 1 in Samsun, 1 in Rize, 1 in Mardin, 1 in İstanbul, 1 in Niğde, 1 Kırşehir started using the PlanetDISK® Systems since 2011.



PlanetDISK® LOCAL REFERENCE



**KIRSEHIR YAYLAOZU
VILLAGE, Türkiye STP
– SOLAR POWERED**



PlanetDISK® LOCAL REFERENCE



Gelibolu Bayırköy WWTP

If the winters are very hard and it gets cold,
The bacteria in PlanetDISK® units must be
protected against Extreme weather conditions by
placing them in fully covered buildings.

If the winters are not so hard, PlanetDISK units can
Be protected against extreme sun as can be seen here.



Canakkale Teknopark WWTP



EU Funded Syrian Refugee Camp Project
Capacity: 1000 kişi / gün
Location: Pehlivan köy, Kırklareli, Türkiye.

PlanetDISK® LOCAL REFERENCE

Turkey's first 4500 PE/day wastewater treatment plant powered by solar.

Location: Greater City of Mardin, Sürgücü Town, Türkiye.

System is hybrid and works via grid energy at nights.



PlanetDISK® LOCAL REFERENCE



GEBZE BİLİŞİM VADİSİ

Treated water is used for irrigation purposes.



PlanetDISK® LOCAL REFERENCE

NIGDE ÇİFTEHAN TOURISM CENTER



PlanetDISK® LOCAL REFERENCE

NIGDE CIFTEHAN TOURISM CENTER



PlanetDISK® UNIVERSITY REFERENCES

Capacity: 3.500 pe/day

Location: Kilyos Campus, Istanbul, Turkiye.

Purpose: The system is installed for domestic wastewater treatment in Bosphorus University. Treated water is used for irrigation in Summer and Spring months and discharged to the sea in winter months.



PROJECTS IN TURKEY



First PlanetDISK[®] Unit
is installed
in Iskenderun, Delta
Petrol in 2005.
It is still working
perfectly!



PROJECTS IN TURKEY



Capacity: 52 m³/day

Location: Dikkaya Village, Rize/Türkiye.

Social Responsibility Project in Rize province by UNILEVER LIPTON tea agriculture villages of Black Sea region of Turkey. ITU (Istanbul Technical University) was the advisor/consultant in this project and asked UNILEVER Lipton to prefer PlanetDISK[®] for village Sewage Treatment Plant.



MADE IN
TÜRKİYE

QUALITY CERTIFICATES



SZUTEST 

**CERTIFICATE OF COMPLIANCE
UYGUNLUK SERTİFİKASI**

The technical file and test reports of the following product have been checked and found in compliance with the Parliament and Council Directive 2014/35/EU of 26 February 2014 on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits and Parliament and Council Directive 2006/42/EC of 17 May 2006 on the approximation of the laws of the Member States relating to machinery.

Teknik dosya ve test raporları incelenerek, belirtilen ürünün Avrupa Birliği Teknik Komisyonu tarafından 26 Şubat 2014 tarihinde yayımlanan 2014/35/EU Belirli Gerilim Sınırları Dahilinde Çalışarak Üzere Tasarlanımı Teğizat ile ilgili yönetmeliği ve 17 Mayıs 2006 tarihinde yayımlanan 2006/42/AT Makina Emriyle Yönetmeliğine uygunluğu saptanmıştır.

Certificate Number: OSE-19-0302/01
Sertifika Numarası:

Applicant: PLANETTEK ÇEVRE VE ARITMA TEKNOLOJİLERİ SANAYİ VE TİCARET A.Ş.
Başvuru Sahibi: Fatih Sultan Mehmet Caddesi, Onarım Sokak, Altay Han No. 9 D: 2KAVACIK-BEYKOZ / İSTANBUL

Manufacturer: PLANETTEK ÇEVRE VE ARITMA TEKNOLOJİLERİ SANAYİ VE TİCARET A.Ş.
Üretici:

Trade Mark: PlanetDISK®
Ticari Marka:

Product: Rotating Biological Contactor PlanetDISK® MX 1 UNIT and Rotating Biological Contactor PlanetDISK® MINI UNIT
Ürün: Dönen Biyolojik Disk PlanetDISK® MX 1 ve Dönen Biyolojik Disk PlanetDISK® MINI

Type: PlanetDISK® MX 1-PlanetDISK® MINI
Model:

Base of attestation: File of technical documentation, test report Ref. No. 19-0302/01
Onay Dayanağı: Teknik Dokümantasyon, 19-0302/01 numaralı Test Raporu

Validity: 4.03.2019-3.03.2024
Geçerlilik:

* The Certificate of compliance is issued on a voluntary basis according to Council Directive 2014/35/EU of 26 February 2014 on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits and Parliament and Council Directive 2006/42/EC of 17 May 2006 on the approximation of the laws of the Member States relating to machinery. It confirms that listed equipment/machinery (not listed Annex IV equipment/machinery) complies essential health and safety requirements of the directive. The referred technical file(s) is reviewed and attested with presumption of compliance with the essential requirements listed EU Directive(s) above. This attestation does not abrogate the compulsory obligation of the manufacturer to issue the declaration of conformity.

"Bu uygunluk sertifikası 26 Şubat 2014 tarihinde yayımlanan 2014/35/EU Belirli Gerilim Sınırları Dahilinde Çalışarak Üzere Tasarlanımı Teğizat ile ilgili yönetmeliği ve 17 Mayıs 2006 tarihinde yayımlanan 2006/42/AT Makina Emriyle Yönetmeliğine göre istisna dışı düzenlenmiştir. Yukarıda belirtilen ekipman/makinaların ilgili yönetmeliğin temel gereksinimlerine uygun olduğunu tasdik eder. Diğer ilgili direktiflere uyumunu bu onay belgesinin uygunluk dayanağı olarak zorunluğunu ortadan kaldırmaz. Referans teknik dosya ile ürünün/EK'V kapsamına girmeyen ürünlerde belirtilen AT Direktiflerinin temel gereksinimlerine uygunluğu kabul edilir.

Plant Manager: 
Soyca USLU

SZUTEST UYGUNLUK DEĞERLENDİRME A.Ş.



T.C.
TÜRK PATENT ENSTİTÜSÜ

MARKA YENİLEME BELGESİ

Marka No : 2005 45773 - Ticaret - Hizmet



Marka Sahibi : PLANETTEK ÇEVRE VE ARITMA TEKNOLOJİLERİ SANAYİ VE TİCARET ANONİM ŞİRKETİ
TÜRKİYE CUMHURİYETİ
FATİH SULTAN MEHMET CAD. ONARIMLI SK. ALTAY HAN AP. NO: 9/2 BEYKOZ KAVACIK İSTANBUL

Emtiası : 11, 40
İlişiktir.

İş bu Marka ilk defa 21/10/2005 tarihinde tescil edilmiş olup, 556 Sayılı Markaların Korunması Hakkında Kanun Hükmünde Kararnamenin 40. Maddesi gereğince 21/10/2015 tarihinden itibaren ON YIL süreyle yenilenmiştir.


Prof. Dr. Habip ASAN
Enstitü Başkanı



TURK PATENT ENSTİTÜSÜ

CERTIFICATE **IQR CERTIFICATION**

**PLANETTEK ÇEVRE VE ARITMA
TEKNOLOJİLERİ
SANAYİ VE TİCARET ANONİM ŞİRKETİ**

MERKEZ ADRESİ: KAVACIK F. SULTAN MEHMET CAD. ONARIMLI SOK.
ALTAY HAN AP. NO:9/2
BEYKOZ / İSTANBUL / TÜRKİYE

ÜRÜTİM ADRESİ: MEVLANA MAH. ATAYOLU CAD. TUNC METAL AP. NO:90/1
SANCARTEPE / İSTANBUL / TÜRKİYE

Has been assessed and found to Comply with the Requirements of
Denetlenmiş ve aşağıdaki standart gereksinimlerine uygunluğu görülmüştür:

ISO 9001:2015

The Quality Management System is applicable to:
Kültür / İnovasyon Sistemleri

PRODUCTION OF WASTE WATER, SOLID WASTE, PROCESS WATER, IRRIGATION WATER AND DRINKING WATER TREATMENT, AIRLESS TREATMENT (ANAEROBIC) SYSTEMS, R & D, PROJECT, PROCESS AND DESIGN, INSTALLATION, AFTER SALES TECHNICAL SUPPORT AND CONSULTANCY ACTIVITIES OF FACILITIES

ATIK SU, KATI ATIK, PROSES SUYU, SULAMA SUYU VE İÇME SUYU ARITMA, HAVASIZ ARITMA (ANAEROBİK) SİSTEMLERİNİN ÜRETİMİ, TESİSLERİN AR-GE, PROJELENDİRME, PROSES VE DİZAYN, MONTAJ, SAHİBİ-SONRASI TEKNİK DİSTER VE DANIŞMANLIK FAALİYETLERİ

Certificate Number: QMS-69812
Belge Numarası: QMS-69812
Certification Period: 3 Years
Belgeleme Periyodu: 3 Yıl

Initial Certification Date: 14.04.2019
İlk Belgeleme Tarihi: 14.04.2019
Certificate Validity Date: 13.04.2021
Belge Geçerlilik Tarihi: 13.04.2021


IQR Sertifikasyon Uzmanı


ACCREDITED
Management Systems
Certification Body
MSCB - 125

ATA ULUSLARARASI BELGELENDİRME ENSTİTÜSÜ İYİ. ŞYİ.
Beşevler Mah. Kavayus Sok. No:3 Arslan Han İş Merkezi B:2 Kat:5A
Tel: +90 234 566 98 98 Faks: +90 234 310 41 33 www.iascert.com e-posta: info@iascert.com



planetek
ENVIRONMENT AND TREATMENT TECHNOLOGIES P.C.

WHERE PlanetDISK[®] CAN BE USED?!

PlanetDISK[®] RBC On- Location STP Unit is the right choice for;

Military Camps

Villages

Housing estates

Hotels and holiday villages

Construction sites

Labour Camps

Mining Camps

Campuses, Schools




Religious Centers

**90% Savings in OPEX!
This is Revolution**



PlanetDISK® TREATMENT EFFICIENCY

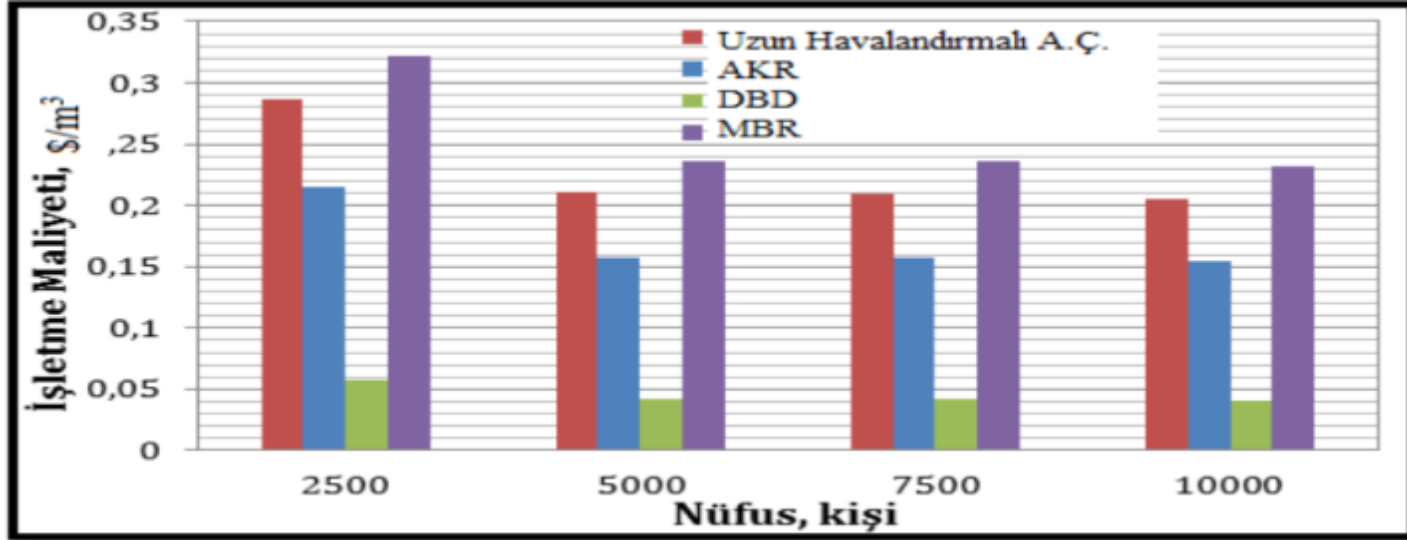
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Birim/Bölüm	ABHEM/SKSAL				
Sayı	B.10.4.RSH.1.01.00.79.140.02/3134				
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Laboratuvar No	054				
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Raporun Düzenlenme Tarihi	27.10.2009				
Gönderen Kişi/Kurum/Kuruluş	Tefken İnşaat ve Tes.A.Ş. Beşiktaş/İstanbul				
Gelen Yazının Tarihi ve Sayısı	21.10.2009				
Numunenin Cinsi	Atık su				
Numunenin Alındığı Tarih	21.10.2009				
Numunenin Alındığı Adres	Giriş Suyu PT1 Geben K.Maraş				
Numunenin Lab'a Geliş Tar./Sayısı/Saati	21.10.2009/2954				
Analizin Başlama ve Bitiş Tarihi/Saati	21.10.2009-26.10.2009				
Numunenin Alınış Şekli	24 Saatlik Kompozit				
Ambalaj Şekli ve Miktarı	5 Lt				
(BOD) ₅ Influent = 260 mg/L					
KİMYASAL VE FİZİKSEL ANALİZLER		DENEY SONUCU	YÖNSELİK STANDART DEĞERLER MAX	BİRİM	TEST METODU
pH		6,5			pH Metre
Kimyasal Oksijen İhtiyacı		260		mg/l	Hazır Kit
Biyolojik Oksijen İhtiyacı		260		mg/l	Spektrofotometrik
Askada Katı Madde		161		mg/l	Gravimetrik
Yağ ve Gres		193		mg/l	Ekstraksiyon+Oil Metre
Değerlendirme: Getirilen atık su numunesinin yukarıda yapılan analiz neticesini bildirir rapordur.					
Hülya BELEN Veteriner Hekim		Selma KESKİN Biyolog		Aytaç DÖNDERİCİ Kimyager Su Kimyası-Sanayi Atık Su Laboratuvar Sorumlusu	
				 	
Bu sonuçlar yalnızca yukarıda belirtilen numune için geçerli olup laboratuvarımıza teslim edilen numuneyi temsil etmektedir. Bu rapor müdahale için zaman kaybetmeden kullanılabilmektedir. İnceleme ve müdahale raporları ayrıdır.					
Not: ** ile işaretli parametreler/parametrik değerler de ilgili standart / yasalarda yer almamaktadır.					

		T.C. SAĞLIK BAKANLIĞI REFİK SAYDAM HIFZISSIHHA MERKEZİ BAŞKANLIĞI ADANA BÖLGE HIFZISSIHHA ENSTİTÜSÜ MÜDÜRLÜĞÜ		Sayfa: 1/1
Birim/Bölüm	ABHEM/SKSAL			
Sayı	B.10.4.RSH.1.01.00.79.140.02/3135			
SANAYİ ATIK SU ANALİZ RAPORU				
Laboratuvar No	055			
Numune Kabul Tarihi/Nomu/Saati	21.10.2009/1654			
Raporun Düzenlenme Tarihi	27.10.2009			
Gönderen Kişi/Kurum/Kuruluş	Tefken İnşaat ve Tes.A.Ş. Beşiktaş/İstanbul			
Gelen Yazının Tarihi ve Sayısı	21.10.2009			
Numunenin Cinsi	Atık su			
Numunenin Alındığı Tarih	21.10.2009			
Numunenin Alındığı Adres	Çıkış Suyu PT1 Geben K.Maraş			
Numunenin Lab'a Geliş Tar./Sayısı/Saati	21.10.2009/2954			
Analizin Başlama ve Bitiş Tarihi/Saati	21.10.2009-26.10.2009			
Numunenin Alınış Şekli	24 Saatlik Kompozit			
Ambalaj Şekli ve Miktarı	5 Lt			
Resmî Mühür	Yok			
KİMYASAL VE FİZİKSEL ANALİZLER		(BOD) ₅ EFFLUENT	STANDART DEĞERLER MAX	TEST METODU
pH		6,5		pH Metre
Kimyasal Oksijen İhtiyacı		35		mg/l Hazır Kit
Biyolojik Oksijen İhtiyacı		10		mg/l Spektrofotometrik
Askada Katı Madde		15		mg/l Gravimetrik
Yağ ve Gres		1		mg/l Ekstraksiyon+Oil Metre
Nitrat		29,5		mg/l Spektrofotometrik
Amonyum		1,13		mg/l Spektrofotometrik
Serbest Klor		Bulanamadı		mg/l Spektrofotometrik
Değerlendirme: Getirilen atık su numunesinin yukarıda yapılan analiz neticesini bildirir rapordur.				
Mustafa SONMEZ Lab. Teknisyeni		Aytaç DÖNDERİCİ Kimyager Su Kimyası-Sanayi Atık Su Laboratuvar Sorumlusu		 
Bu sonuçlar yalnızca yukarıda belirtilen numune için geçerli olup laboratuvarımıza teslim edilen numuneyi temsil etmektedir. Bu rapor müdahale için zaman kaybetmeden kullanılabilmektedir. İnceleme ve müdahale raporları ayrıdır.				



WHY PlanetDISK® ?

Operating Cost



Population, PE

1-Activated Sludge (A.Ç.)

2-SBR (AKR)

3- RBC (DBD)

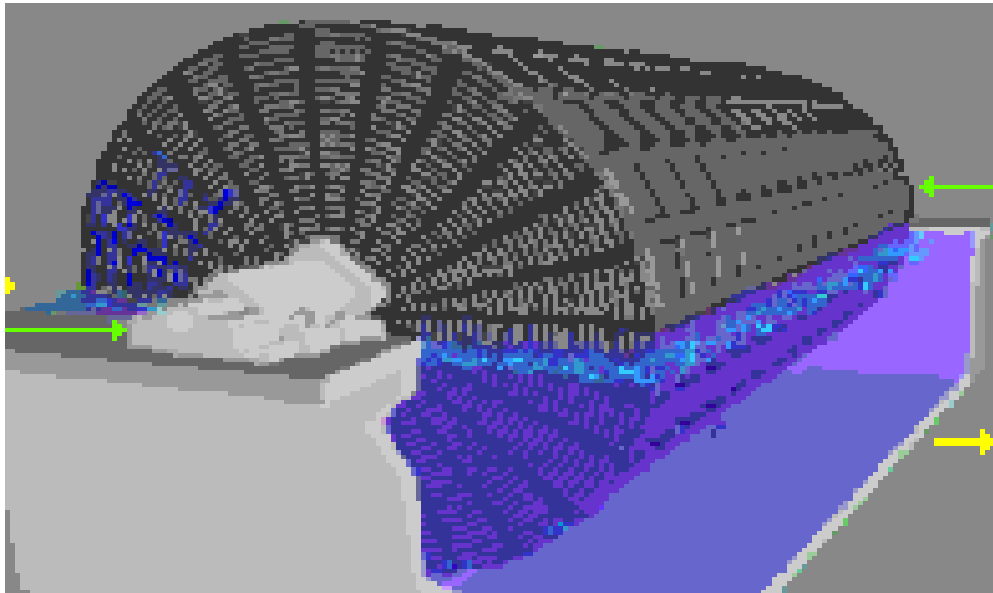
4-MBR (MBR)

➤ Study is conducted by ITU –
Istanbul Technical University in
2014

90% Savings in OPEX!
This is Revolution



ROTATING BIOLOGICAL CONTACTOR (RBC) THE WORKING PRINCIPLE



“What makes RBC so perfect is the sheer simplicity behind its design.”

PlanetDISK® RBC Unit is a fixed film biological Sewage Water Treatment system consisting of circular disks made of non-corrosive, Polypropylene (PP), mounted on a solid steel shaft rotating at a speed of less than 4 rpm (watch in presentation mode for animation).

During the rotation, 40% of the disks are immersed in wastewater and the rest are in contact with air.

RBC process is widely used in the world since 1960s. Due to its simplicity in operation and energy saving mechanism, its popularity is continuously growing.

Simplicity is the ultimate sophistication.

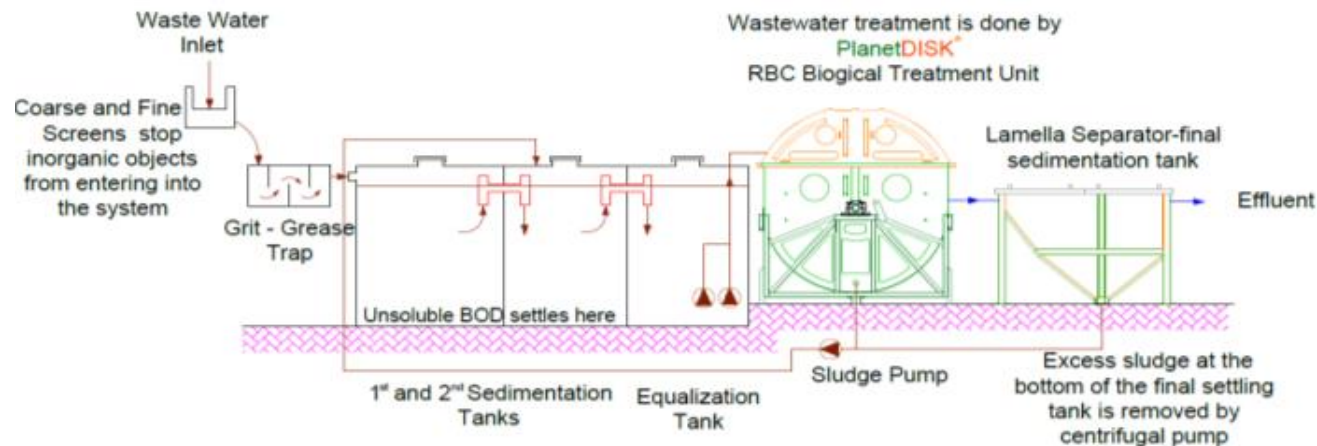
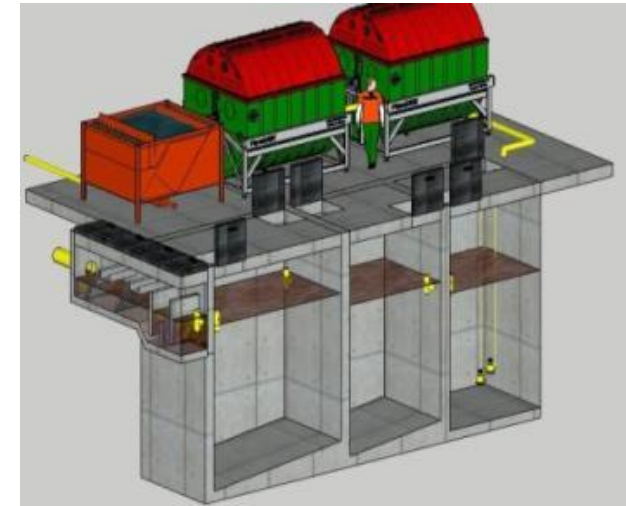
Leonardo da Vinci



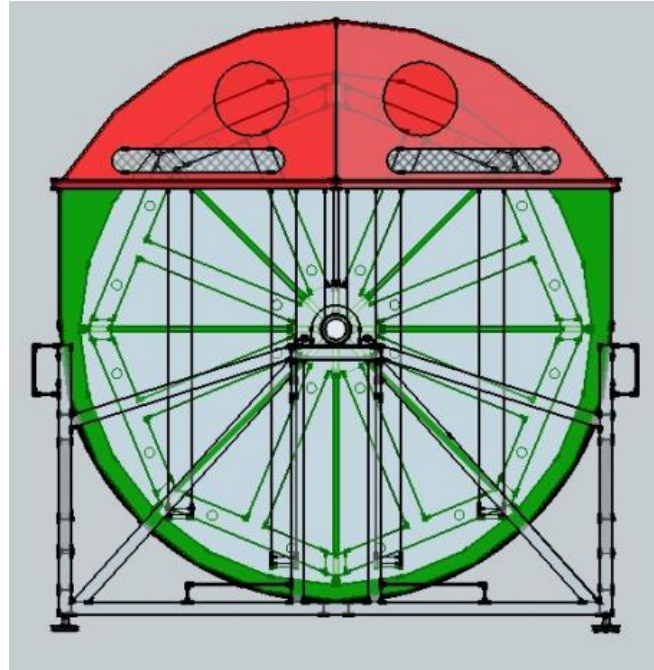
ROTATING BIOLOGICAL CONTACTOR (RBC) METHOD

The PlanetDISK® technology, which is used across the world, is being produced locally in Turkey to European Standards. PlanetTEK is proudly one of less than 15-20 certified RBC manufacturers in the World. The units are made of:

- 💧 GRP (fiberglass) body that will protect the system from corrosion;
- 💧 Virgin Polypropylene 1-piece Discs (PP) which will last for years without any degradation; 2050 mm diameter, at least 1.5 mm thickness.
- 💧 85 mm diameter Solid Steel shaft - chromium coated and/or epoxy painted- AISI 1045
- 💧 All deep galvanized metal parts to last for years against corrosion. Stainless Steel is optional.



TECHNICAL DATA PlanetDISK[®] MX1 MODEL



Treatment Plant Capacity:
10-4000 m³/day

Each unit capacity = 40-80 m³/ day depending on
BOD load and effluent and influent characteristics

Each unit power requirement = 0.37 kW

Delivery & Packing

Unit dimensions =
2300mm (W)x3250mm (L)x3000mm(H)

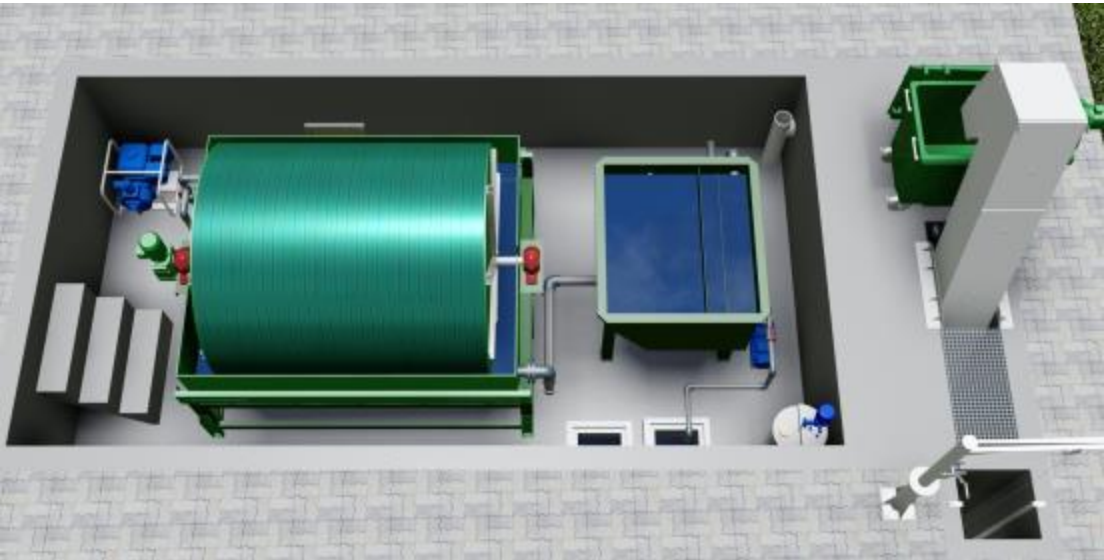
Empty weight = 2000 kg

Full operational weight = 7500 kg

3 pieces MX1 units fit in 40ft High Cube shipping
containers



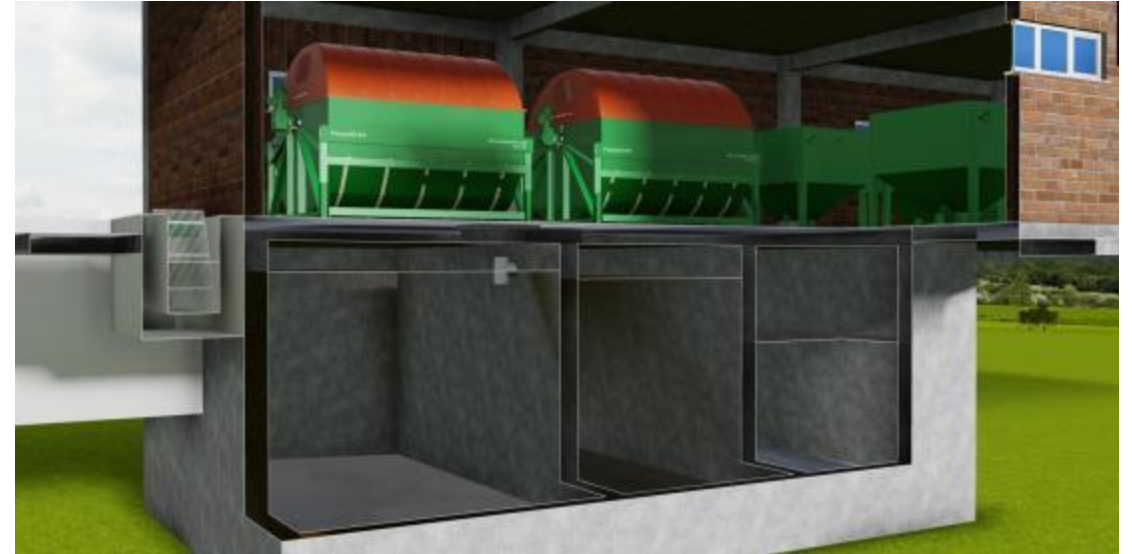
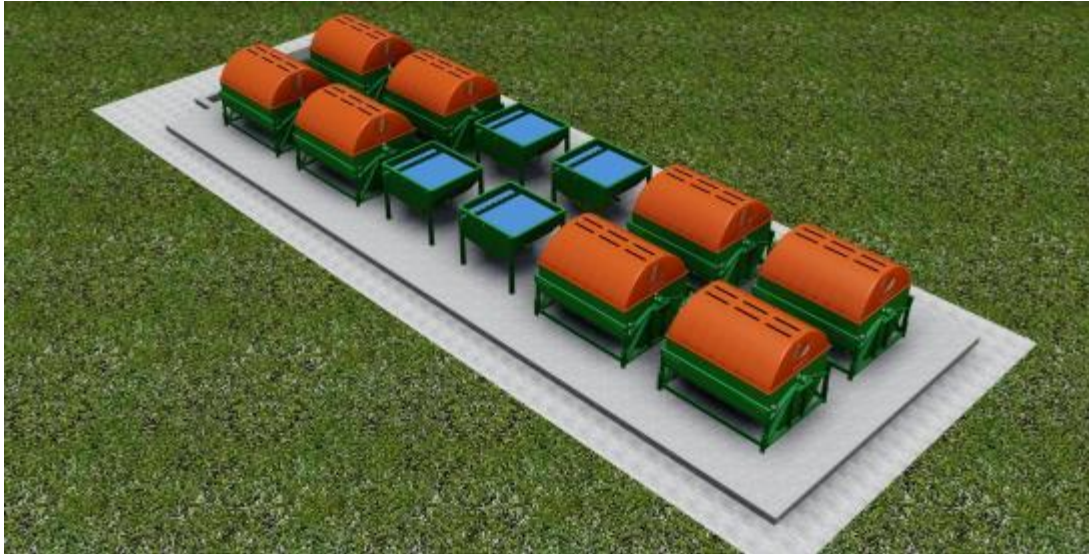
A TYPICAL PlanetDISK® FACILITY FOR 250-550 PEOPLE

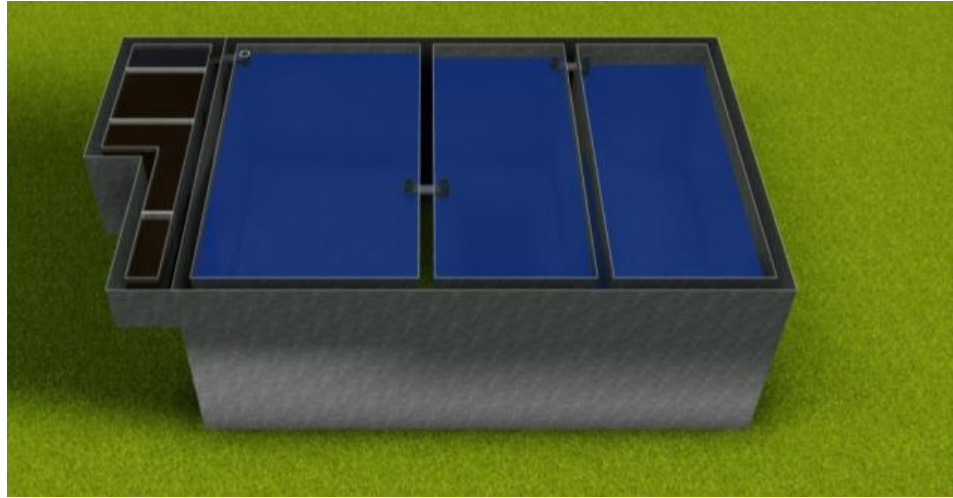
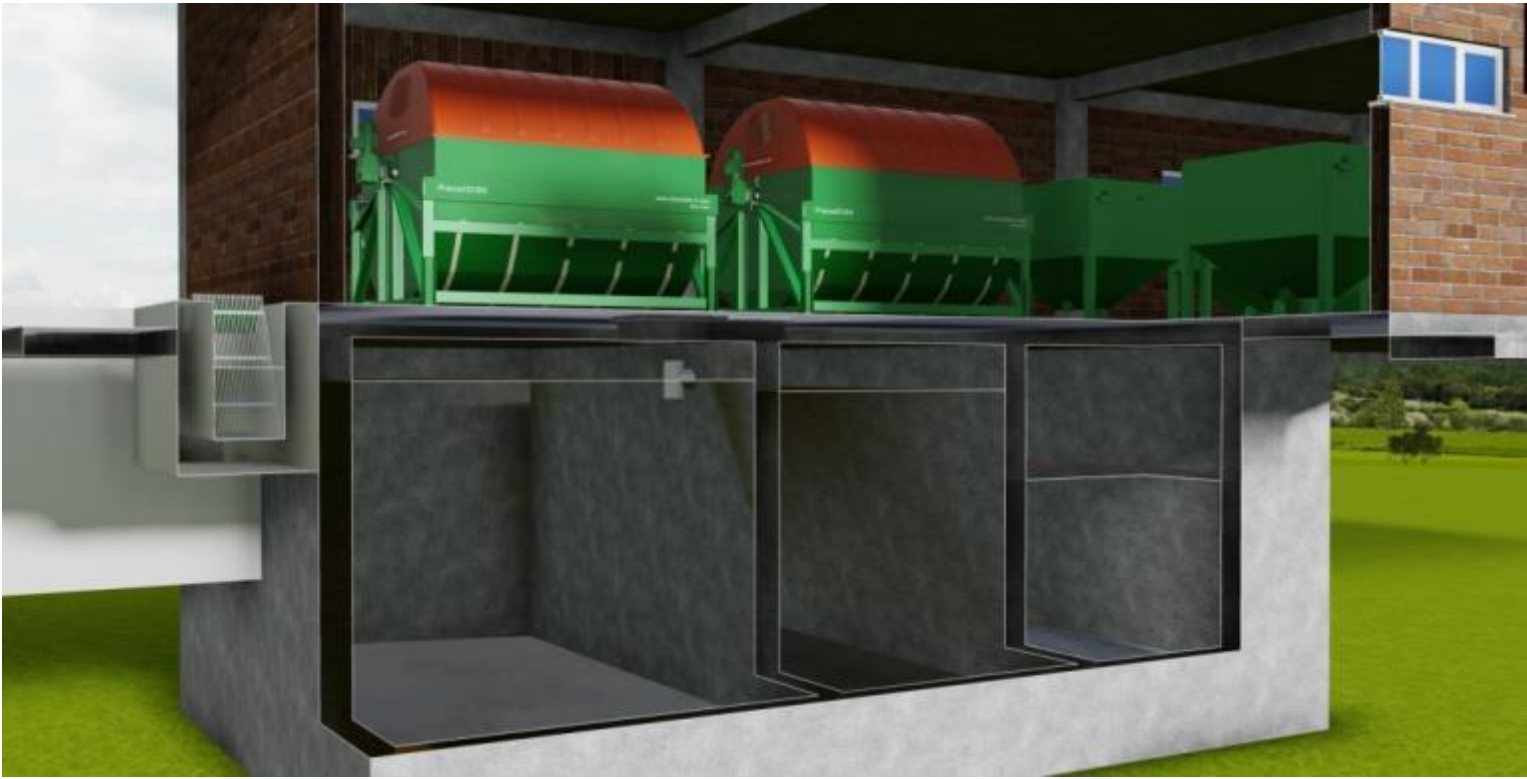


A TYPICAL PlanetDISK® FACILITY FOR 750- 1500 PEOPLE



A TYPICAL PlanetDISK® FACILITY FOR 1500-3000 PEOPLE





ROTATING BIOLOGICAL CONTACTOR SYSTEMS IN THE WORLD (OTHER INTERNATIONAL MANUFACTURERS)



ROTATING BIOLOGICAL CONTACTOR SYSTEMS IN THE WORLD (OTHER INTERNATIONAL MANUFACTURERS)

Pictures below are all from England. Most W. European countries prefer Rotating Biological Contactor by 90% over the conventional methods.



ROTATING BIOLOGICAL CONTACTOR SYSTEMS IN THE WORLD

World's largest biodisc application is in North Carolina;
750.000 PE/day capacity.



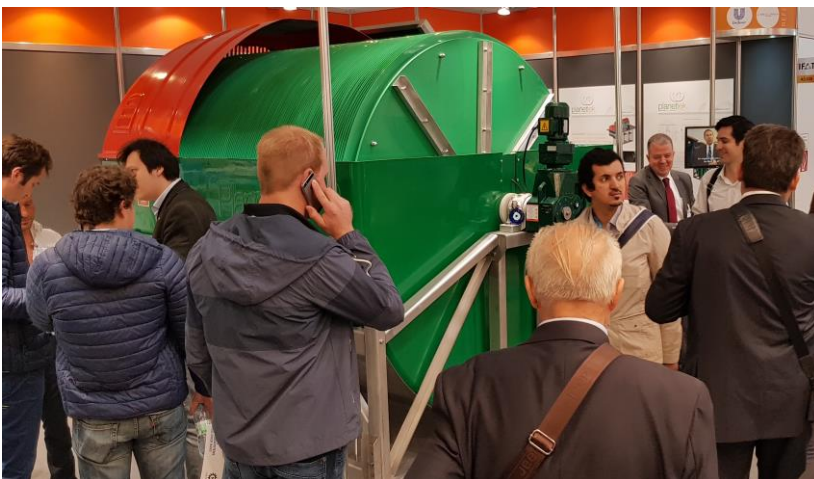
ROTATING BIOLOGICAL CONTACTOR SYSTEMS IN THE WORLD



Another giant RBC application is in Orlando Florida with a capacity of 460.000 PE capacity.

IMPORTANT DEVELOPMENTS

- IFAT, the World's largest trade show for the environment technology is held in Istanbul on March 2019 and PlanetTEK has been participating at this show – From 2016 till 2019. PlanetTEK stand attracted many local and international visitors who shares the same concerns about the scarcity of water.



IMPORTANT DEVELOPMENTS


🌊 End of 2018, we opened our own factory – 1000 m²



PlanetTEK INC. IN SOCIAL MEDIA

PlanetTEK Environment & Treatment Technologies Inc. Yönetici görünümü Üye olarak görüntüle

Ana Sayfa İçerik Analizler Faaliyet Yönetici araçları



PlanetTEK Environment & Treatment Technol...
Çevre Koruma Hizmetleri · İstanbul · 721 takipçi

PlanetDISK® Rotating Biological Contactor Sewage Treatment Plants are serving on 5 continents by saving 90% energy!

+ Takip Et [Web sitesini ziyaret et](#)

LinkedIn: <https://www.linkedin.com/company/10371076>

YouTube

Ana Sayfa
Trendler
Abonelikler
Kitaplık
Geçmiş

Videoları beğenmek, yorum yapmak ve abone olmak için oturum açın.

[OTURUM AÇ](#)

YOUTUBE'UN EN İYİLERİ

- Müzik
- Spor
- Oyun
- Haberler

PlanetTEK Çevre ve Arıtma Teknolojileri San. ve Tic. A. Ş.

[OTURUM AÇ](#)

PlanetTEK Çevre ve Arıtma Teknolojileri A.Ş.
75 abone [ABONE OL](#)

ANA SAYFA VİDEOLAR OYNATMA LİSTELERİ KANALLAR TARTIŞMA HAKKINDA

Yüklemeler [TÜMÜNÜ OYNAT](#)

- PlanetTEK Environment and Treatment Technologies Inc... 9 görüntüleme · 5 gün önce
- PlanetTEK Inc. Corporate Presentation. Rotating... 23 görüntüleme · 1 ay önce
- Atıksu Arıtma Sistemi : Yeditepe Üniv.Yetkililerinin... 16 görüntüleme · 3 ay önce
- Sewage Treatment System Visitors' testimonials from... 15 görüntüleme · 3 ay önce
- PlanetDISK® RBC Sewage Treatment Plant K.Maraş... 22 görüntüleme · 5 ay önce

Youtube: <https://www.youtube.com/channel/UCGCbiWisELOByCG0R8y7K1g/videos>



PlanetTEK INC. IN SOCIAL MEDIA

The screenshot shows the Instagram profile for PlanetTEK. The profile name is 'planettek_en' with a 'Takip Et' button. It has 55 posts, 215 followers, and 328 following. The bio states: 'PlanetTEK Inc. PlanetTEK is a Biological Sewage Treatment System manufacturing company, German Technology - Made in TÜRKİYE! Serving close to 30 countries since 2004 www.planettek-tr.com'. Below the bio, there are three featured posts: a radio interview with Karadut, a photo of a man in a white shirt, and a 'Dünya Çevre Günü' (World Environment Day) poster.

Instagram: https://www.instagram.com/planettek_en/?hl=tr

The screenshot shows the Twitter profile for PlanetTEK Environment & Treatment Inc. - English (@PlanetDISK). The profile has 54 tweets, 114 followers, and 66 following. The bio states: 'Wastewater? We do not have at PlanetTEK Environment & Treatment Technologies Inc. We recycle and reuse it! We care about the Planet - the only home we have!'. The location is Istanbul, Türkiye, and the website is planettek-tr.com. The profile was created in September 2015. Below the bio, there are three featured tweets: a tweet about World Environment Day, a tweet about the company's mission, and a tweet about the company's commitment to the environment.

Twitter - English: <https://twitter.com/planettekdisc>



PlanetTEK ENVIRONMENT & TREATMENT TECHNOLOGIES INC.

A KEY PLAYER IN DOMESTIC WASTE WATER
TREATMENT BUSINESS IN TURKEY IS BECOMING
GLOBAL.

www.planettek-tr.com



*Represented in ASEAN by
ENVIRO-PURE FOUNDATION & ENVIRO-PURE (ASIA)LP
Head office in The Netherlands-Branch office in Thailand
www.enviro-pure.nl info@enviro-pure.nl contact@enviro-pure.asia
Europe tel. +31 653739227 - Thailand tel. +66 806990742 - Line: Dick1941*