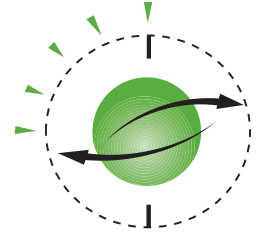


E.P.C

BIO-DISK®



VDH APPROVED

Combines nature with smart technology to purify wastewater

The green solution that effectively treats wastewater at any site, onsite.

From small communities to large public facilities – environment-friendly, safe solutions that effectively treat wastewater onsite.

Bio-Disk® is a proven, effective and versatile wastewater treatment system – using only 10% of the energy consumed by competitive systems! The system's exceptionally low energy consumption enables it to be powered by solar energy. The system meets international health and safety standards – no unsafe chemicals or unpleasant odors. The reliable system offers easy operation and low maintenance costs.

The Bio-Disk Rotating Biological Contractor (RBC) system effectively handles wastewater on any site:

- **Communities**
- **Shopping centers**
- **Resorts, hotels and motels**
- **Camping grounds, trailer parks, and army camps**
- **Public facilities: Hospitals, prisons, and more**

Bio-Disk is an ideal solution for rural areas or localities without central sewage systems. It is an off-the-shelf cost effective solution. The system is particularly effective in regions with poor soil absorption or in water reuse areas.

Why Bio-Disk?

Bio-Disk offers simple, superior solutions for onsite wastewater treatment.

- **Tried and tested** - Proven results meet international standards for onsite wastewater treatment plants
- **Easy to install** - Simplicity in design & construction: 4-6 month for operation. Low operation & maintenance costs - only 30% of any other systems.
- **Small footprint** - Very small space required.
- **Energy saver** - Very low power consumption: only 10% of conventional systems.
- **Environmentally friendly** - Odor and chemical free.
- **Modular system** - Can be expanded to meet growing needs.
- **Efficient** - Handles up to 3,000 m³/day (750,000 GPD) in any requested effluent quality.
- **LEED standards** - Maximum compliance with LEED standards.

www.epc-tec.com



Converting Wastewater to Economy growth - Ask us how

With Bio-Disk, Energy efficient wastewater solution

Four efficient steps that convert wastewater into clean effluent...

Bio-Disk's effective system leverages the power of nature coupled with smart technology to purify wastewater – its biological treatment processes are based on a unique, fully aerated system which accelerates the growth of biomass and ensures high quality effluent.

1 Pre-treatment

This stage can be carried out using either multi-chamber-pits or pre-treatment tanks. The pre-treatment process combines sedimentation of non-organic objects with a significant organic load reduction.

2 Purification

Wastewater purification is carried out by rotating immersion discs (fixed film reactors) mounted vertically on a horizontal rotating stainless steel shaft. The rotating discs are alternately exposed to the wastewater and the atmosphere. The fixed-film micro-organisms, which decompose soluble and suspended organic material, are attached to the surface of the immersion discs. The biomass grows naturally by itself on the discs. Clogging is prevented by using specially designed plain disc units. A flow control unit keeps the hydraulic flow at a constant level, irrespective of high or low wastewater flow rates.

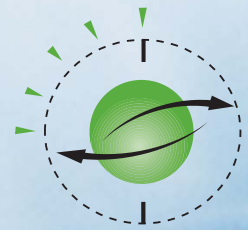
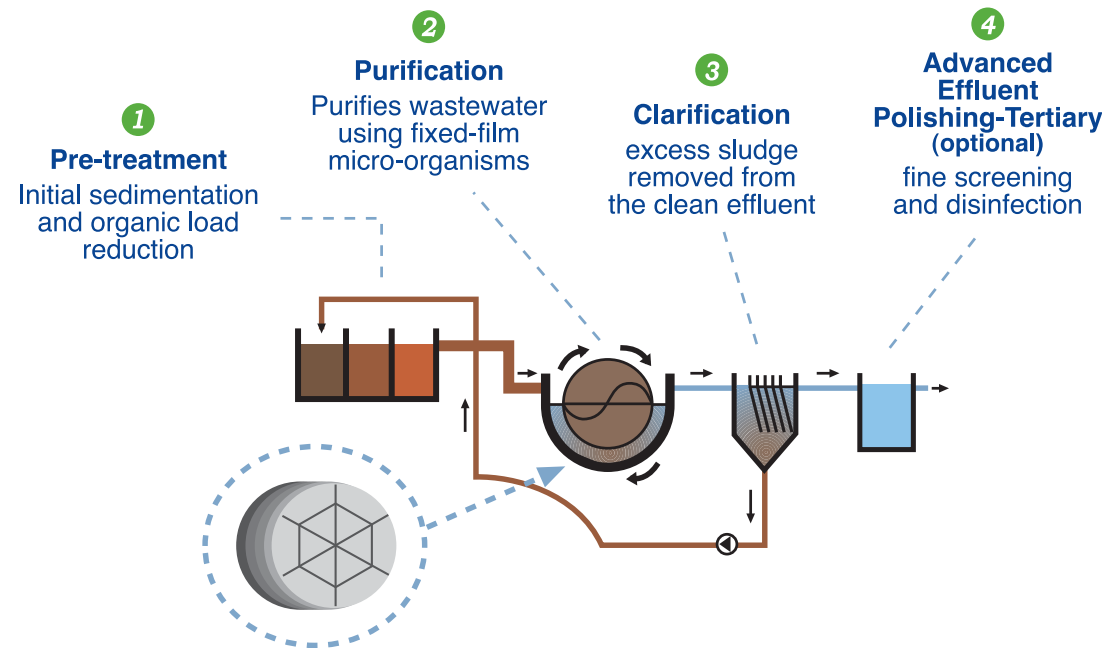
3 Clarification

All the liquid from the reactors flows into the Lamella Separator, specially designed for final clarification. The Separator uses gravity in a highly efficient sedimentation process. Excess sludge is periodically removed from the clean effluent into the sludge holding tank. The clear, odorless effluent can be utilized for irrigation and many other uses. In certain cases, further treatment is required.

4 Advanced Effluent Polishing – Tertiary Treatment

Advanced effluent polishing enables end users to reuse clear effluent for drip irrigation, drain field or any other use. The process combines fine screening, nano-filtration, and disinfection in order to obtain high-quality effluent. Our engineers can design customized solutions to meet customers' specific requirements and any government regulation.

Bio-Disk® is a registered trade name and patent of E.P.C. Ltd.



“Test results always meet Ministry of Health regulations, enabling the effluent to be used for our gardens. I am very satisfied with the plant and the company's performance and highly recommend their services.”

Hugo Van Trago, Manager
Rothschild Gardens, Israel



Successfully serving a wide variety of customers

EPC has been a leading provider of innovative, patented onsite wastewater treatment solutions (OWWTP) in the clean-tech market for 25 years. EPC's systems serve commercial, public, and residential needs. The company holds ISO 9000:2001 certification.

The outstanding performance of our innovative and advanced technology is a proof of our commitment to excellence in both quality and service. Our highly professional and experienced team provides ongoing technical support, ensuring the systems run smoothly and efficiently.

Our customers come from a wide variety of sectors including government agencies, municipalities, various industries, remote communities, shopping malls, truck stops, nature reserves, recreation areas and tourist centers.

Install a system now and protect your environment !

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