

BIO-DISK

making wastewater treatment smart and simple

EPC energy efficient package plants ideal for rural locations

Bio-Disk® is a proven, fully automatic, and user-friendly package plant – using only 0.1 of the energy consumed by conventional systems and can be powered by solar energy. Our improved RBC aerobic fixed film solution efficiently treats wastewater at any site, onsite. It's a plug-and-play system that can be installed above/below ground with a modularity option.

The combination of low OPEX and long lifespan makes this system a "game changer" in the onsite wastewater market.

Bio-Disk® systems are ideal as a Wastewater treatment "Package" plant category for rural communities without any sewer solutions.

The Bio-Disk (RBC) serves any site

- Parks • Communities • Commercial Centers • Resorts
- Public Facilities • Private Developments

Why Choose Bio-Disk?

Tried & Tested
30 years with hundreds of installations

Energy Efficient
1kWh for 100 households system

Plug and Play
comes as a package plant and easy to install

Modular system
scale as you grow

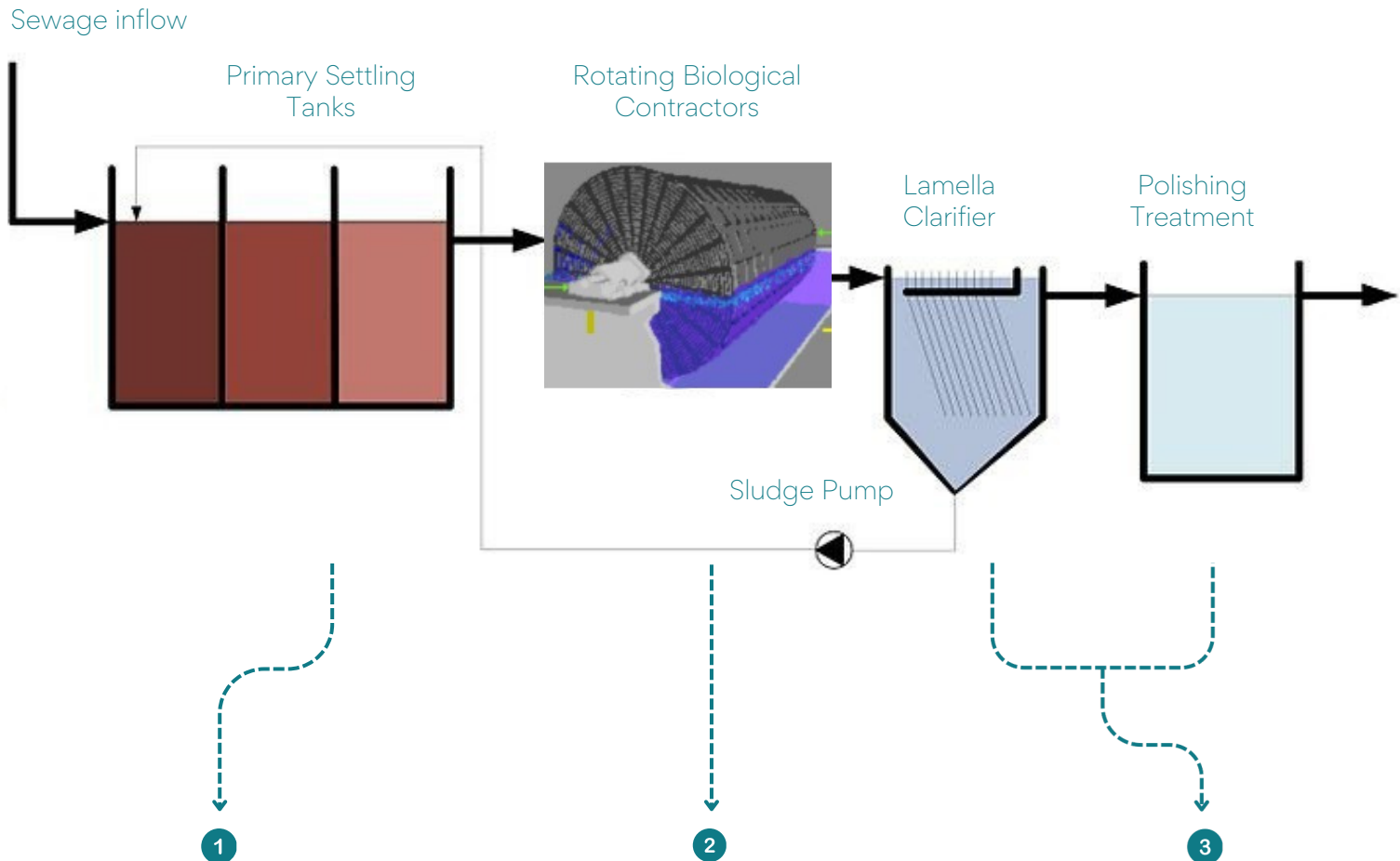
Low O&M Costs
simple maintenance with no sludge treatment

Eco Friendly
odor, noise and chemical free

Tygart Lake, WV • DOH HQ, WV • Tazewell, VA



Treatment Process Diagram



Pre-treatment stage

- Ensuring effective removal of suspended solids and organic load from the wastewater. Providing a large settlement area within a small footprint. Including of Equalization tank to regulate steady flow to the Bio-disk® reactors.

Biological stage

- Bio-disk (RBC) is a fixed film, aerobic, biological wastewater treatment system.
- It consists of parallel, Polypropylene disks mounted perpendicularly on a shaft that is slowly rotated in a tank through which the wastewater is treated.
- The rotation and subsequent exposure to oxygen allow organisms to multiply and form a thin layer of biomass.
- Minimal Excess biomass shears off at a steady rate as the media rotates.

Clarification stage

- Contains lamella plates for ideal separation within a small footprint.
- Sedimented sludge is automatically pumped back into the primary tanks.
- Clear effluent overflows from the top for post-treatment (UV) or discharge.

Successfully serving a wide variety of customers

EPC has been a leading provider of innovative, patented package plants in the clean-tech market for over 30 years. EPC's systems serve commercial, public, and residential needs. The outstanding performance of our innovative and advanced technology is proof of our commitment to excellence in both quality and service.

EPC's highly professional and experienced team provides ongoing technical support, ensuring the systems run smoothly and efficiently.

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Contact us today to discuss our highly efficient water treatment solutions!

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