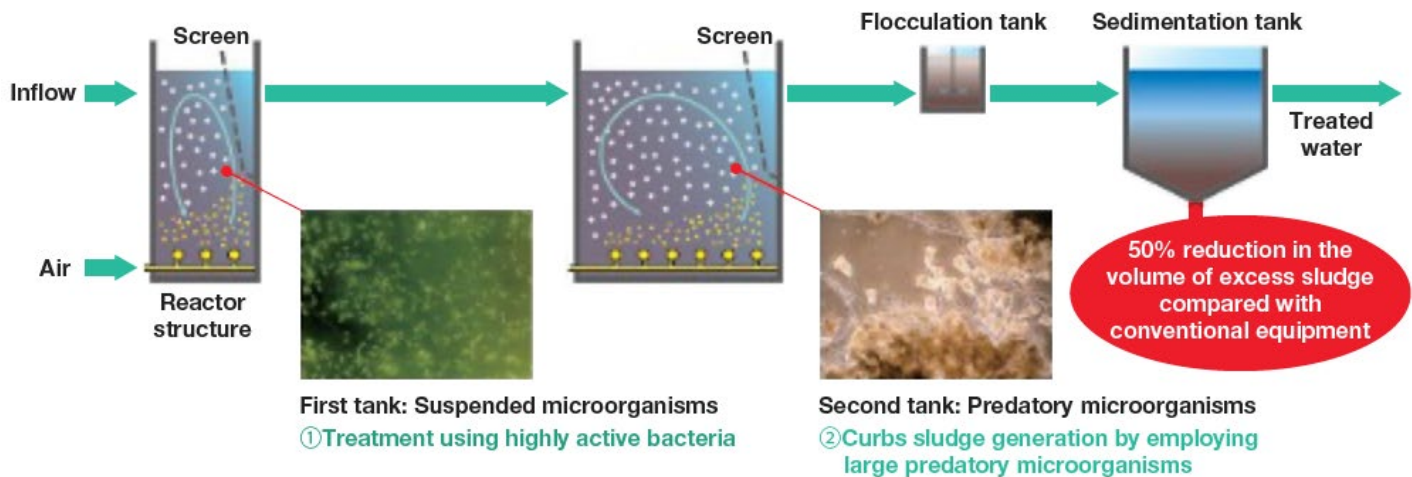


Industrial water treatment process

PABIO MOVER-LS—Fluidized Bed-Type Aerobic Organic Wastewater Treatment Equipment Capable of Reducing Sludge Production

PABIOMOVER-LS is wastewater treatment equipment employing an aerobic organic treatment process and a fluidized bed. With the same tank capacity as its predecessor PABIOMOVER, a conventional system developed in tandem with AnoxKaldnes, PABIOMOVER-LS is capable of reducing the volume of sludge being produced during the treatment process while delivering a performance that is just as robust. This is thanks to our microorganism behavior control technologies utilizing a unique tank separation system.



Features

- No need of return sludge

Because the biological treatment process is facilitated by microorganisms inhabiting a biocarrier in a digestion reactor, the equipment does not require return sludge or a conventional activated sludge process entailing sophisticated maintenance and management techniques. And, although a small amount of excess sludge will be produced and discharged in the form of a suspended solid (SS), this can be separated out and easily removed using flocculation and sedimentation tanks.

- Capable of performing high-intensity processing

A large exposure effect can be expected as PABIOMOVER-LS employs optimal bacterial species for its enclosed environment while adopting fluidized biocarriers.

- Compatible with a variety of aeration tank shapes

The equipment can be installed in a way that incorporates idle or existing aeration tanks or otherwise utilizes existing wastewater treatment facilities to expand their capacities.

- No need for backwash operation

Since biocarriers are designed to be completely clog-free, there is no need to perform the backwash operations typically required with fixed bed-type biological filtration equipment.

- Reduces the volume of sludge being produced via the use of large predatory microorganisms

Our unique tank separation system helps control microorganism behavior and thereby reduces the volume of sludge.



Biocarriers

Applications

- Treatment of wastewater from food processing, chemical manufacturing, and pulp and paper production facilities
- Removal of nitrogen from various types of wastewater

Related keywords

Wastewater treatment, effluent treatment, aeration tanks, aerobic treatment, return sludge, COD removal, BOD removal, biocarrier method, bulking countermeasures, filamentous fungus countermeasures, poor sedimentation, sludge reduction, organic effluent, drainage capacity expansion, high-intensity processing, energy saving

Water Infrastructure Marketing and Sales Department for Private Sector, Marketing and Sales Division, Environmental Engineering Business Unit, Kobelco Eco-Solutions Co., Ltd.

For inquiries about this equipment, please complete and send in an inquiry form.

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