

Aeration

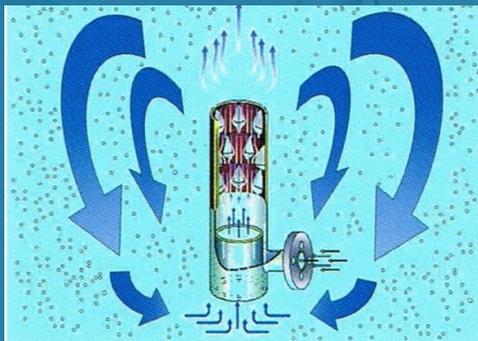
« SEIKA Ecorator » High-Performance Air Diffuser

The Ecorator air diffuser's great airlift efficiency doubles the agitation effect in tanks and is practical for fluid carrier flow systems. The oxygen resolution efficiency is 30% higher than conventional cylindrical air diffusers. Resulting energy savings are to be expected.

The Ecorator and Ecorator Jr. diffusers are suitable for heavy industrial and municipal wastewater treatment purposes as they act to both mix and oxidise sludge.

The Ecorator works through an injection of air that forms into a vortex as the air rises to the surface. This vortex sucks sludge upwards through the diffuser and mixes it with oxygen and water to allow for maximum sludge breakdown. These cylindrical diffusers are specially constructed to prevent clogging, sludge accumulation and reduce operation cost. These diffusers are also easily retrofitted and function ideally on low-pressure blowers or air pumps.

Two models available: Ecorator and Ecorator Jr.



Applications

- Mixing and blending of liquids with high levels of solids.
- Treatment of heavy municipal or industrial wastewater in warm or cold climates.
- Reducing operating and equipment costs through a simple and non-clogging design.
- Upgrading existing conventional treatment systems at a competitive cost.
- Meeting treatment targets for effluents, regardless of most limiting conditions.

Advantages

No clogging: Large section area of the emission parts, avoids any clogging. Intermittent operation is also available.

No sediment on the tank bottom: The Ecorator sucks up a large amount of sludge and remaining fluid and can equally agitate thick sludge in the reservoir.

High-efficiency oxygen resolution: The unique, powerful suction sucks an enormous amount of sludge water from the tank bottom, increases contact with the air bubbles and heightens the oxygen resolution efficiency.

Energy saving effect: Smaller risk of damage caused by pressure and high-efficiency oxygen resolution at the air emission component, combine to reduce the burden on the blower to enable stable operation with less power consumption.

Perfectly maintenance-free: With no clogging, regular cleaning or part replacement is not necessary. Long-term use is possible without any decline in initial performance.

Diffuser distance from the bottom: Min: 50 mm, Opt: 100 mm, Max: 250 mm

Lifetime: Expected lifetime of 15 years or longer.

Two models available	
Ecorator Jr.	Ecorator
5 to 10 cfm	20 to 50 cfm
8.5 to 17 m ³ /h	34 to 85 m ³ /h

