

BIOREM BJA Series

Compact Turbine Surface Jet Aerator For Waste Treatment

Working Principal of Turbine Jet Aerator

The rotating propeller forces water outward horizontally past the end of the shaft at high velocity. This creates a vacuum drawing air down the shaft into the water. Above the water line, atmospheric air is drawn through intake ports and travels through the hollow drive shaft to be dispersed in a large plume throughout the water. Being diffused into fine bubbles – about 2.0 mm diameter – the oxygen has extended contact time with the water. The size of the

Unique Advantages of BJA Series

- High oxygen transfer
- Easy installation
- Dependable, extended service life
- Low maintenance
- Highly energy-efficient
- Superior winter performance
- No aerosols
- Simplifies retrofits and upgrades

plume varies with the size of the aspirator/aerator which can be from two to 100 HP. Properly positioned, these units can create a “flow linkage” that delivers mixing and oxygen dispersion evenly and thoroughly throughout an entire basin regardless of its size or shape.



**COMPACT
SIMPLIFIED
MODULAR
RELIABLE**

Oxidation Oval Ditch For Domestic Application

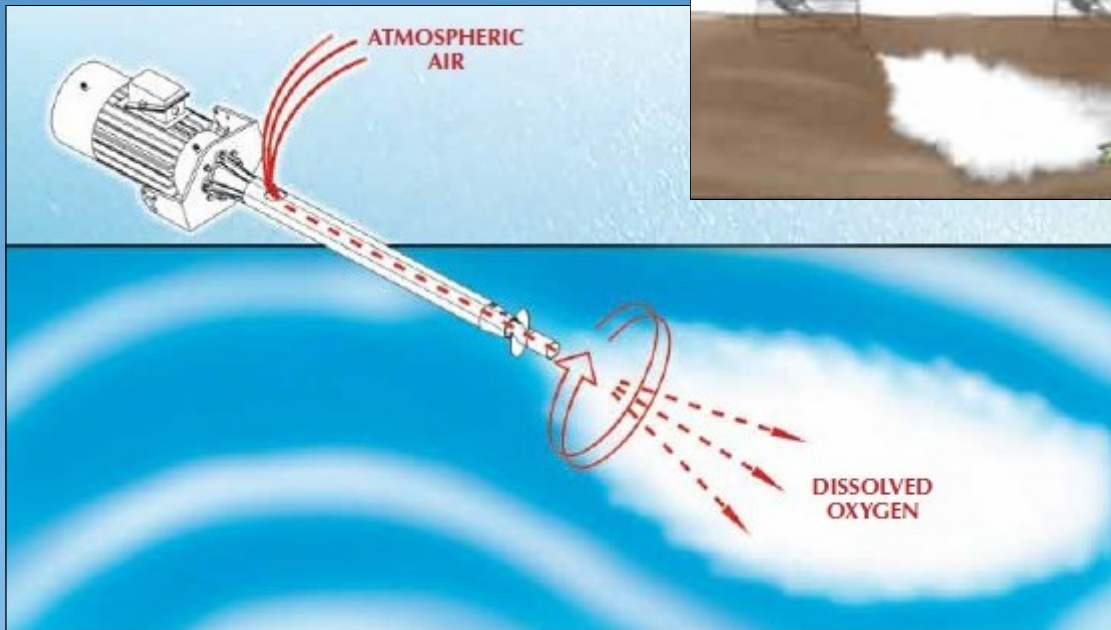


Lagoon Biological Partial Mix Application



Directional Mixing and Aeration

Turbo jet aerator is widely used in situation whereby directional flow is required or to be used in complementing other surface aerators. It eliminates dead corners of lagoon with ease and provide quick fix for pond needing special oxygenation and mixing. It is easy to install and mobile/compact and can be relocated easily. It comparatively provides more mixing and homogenization even though its oxygen efficiency is relatively lower than low speed surface aerators .



THINK SIMPLE and ACT SWIFTLY

When in doubt, please contact BioREM for further advise with pond dimension, incoming BOD and expected performance of your pond outlet water quality!!