

## TVTbio BioJet™ Aerator *Aeration Booster for TVT BioReactor*

- **Adds processing capacity**
- **Increases circulation**
- **Eliminates “dead zones” in large or irregularly shaped lagoons**
- **Prevents freezing**
- **Low operating cost**
- **Reconstitutes settled sludge into flow stream**
- **Works in conjunction with TVT BioReactor**



The TVT BioJet is a floating eductor venturi system that adds process capacity to existing treatment in lagoons, ponds tanks, outperforming less efficient equipment currently in place. Used in conjunction with the TVT BioReactor it provides extremely efficient recirculation and increased DO with higher microbiological activity.

The BioJet eliminates ‘dead areas’ in large or irregular lagoons as well as basins with no natural flow. It can reconstitute settled sludge into the flow stream and provides direct-stream introduction of fine-bubble diffusion.

The plume of the BioJet reaches up to 120 feet and achieves DO of 3.2 - at least twice the performance of other more traditional aeration equipment.

The standard BioJet is mounted on a 10' x 10' floating platform and includes a 15 HP blower with a Variable Frequency Drive to ensure optimum energy efficiency. The eductor venturi itself is located 6 feet below the surface in the second hydraulic layer. The combined horizontal directional flow of the BioJet and the Bioreactor ensures efficient mixing for maximum biological activity.



*TVT BioJet and BioReactor*

## TECHNICAL SPECIFICATIONS

### Dimensions:

- Length: 10 feet (3.05 m)
- Width: 10 feet (3.05 m)
- Height (above surface): 3 feet (0.91 m)
- Depth (below surface): 3 to 6 feet (0.91 to 1.83 m)
- Weight: 2500 pounds (1134 kg)

**Power Requirement:** 480Vac 3-phase, 30A, 50/60 Hz

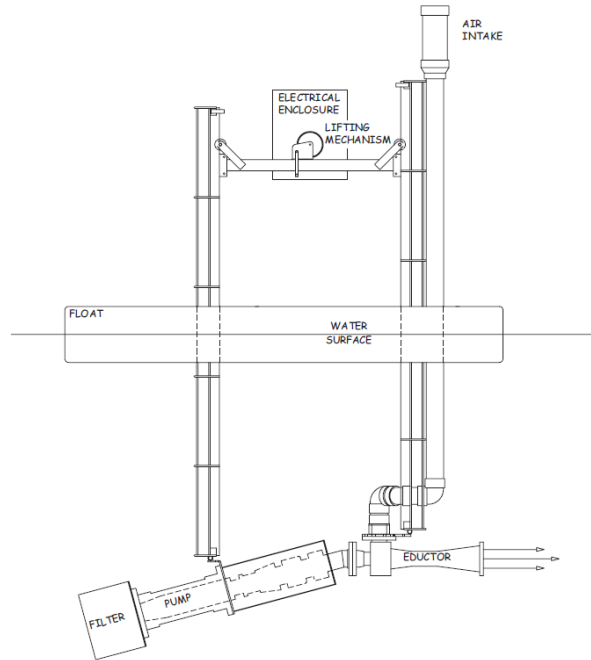
**Horsepower (VFD):** 15 HP (11.2 kW)

**Plume Length:** 95 to 120 feet (straight line)

**DO Production:** 3.2 mg/L at 95 feet

**Velocity:** 17 fps

**Volume:** delivers up to 460 GPM at a flowing pressure up to 65 PSIG



*TVT BioJet schematic drawing*

The Company's policy is one of continuous product improvement and the right is reserved to modify the information contained herein without notice.

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