

SUPER-CAV



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CAVITATING EDUCTORS FOR AERATION



Engineering Today
Greener Tomorrow

SuperCAV utilises the hydrodynamic effect for aeration by using wastewater as the motive force. This reduces energy consumption by nearly 50%, oxygen requirements by 40%, and reduces maintenance.

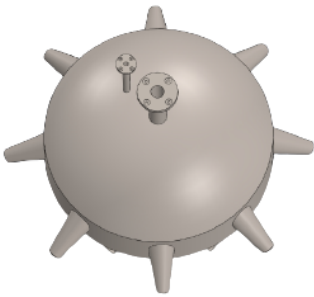
The water is pumped into the SuperCAV and with the help of eduction, the air and wastewater mix intensely. This helps in the uptake of Oxygen from the air due to the cavitation followed by supercavitation.

Drawbacks of Conventional Systems:

- Conventional Membrane Diffusers choke with Sludge.
- Frequent tripping of blower due to choking.
- MLSS growth problem because of Low Dissolved Oxygen.
- The factory uses inefficient perforated pipes to overcome this.



Say no to diffusers



Advantages:

- Nano Bubble Generation
- Reduces oxygen consumption by 40%
- CFD-based design optimization
- No Choking like membrane diffusers
- Power Saving of 50%
- Assured MLSS Level maintains output treated water quality



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