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Jet Aeration

The activated sludge process has gained widespread acceptance in biological waste water treatment. Role of aeration is to provide oxygen to micro organisms. Oxygen is highly needed in waste water treatment plant, for the variety of requirements. Jet aeration is one of the methods to provide oxygen for biological degradation of organic materials and oxidation of dissolved minerals and very important requirement is keeping the solids in suspension. The jet aerator system is based on the venturi - nozzle principle, introducing atmospheric air in water. Jet aerators are suitable for small to medium size sewage plant and depths up to 6 meters.

Advantages

- Extremely simple installation, even in a flooded tank
- Ideal for mixing combined with aeration of waste water containing sewage, organic industrial effluent, slurry etc
- No need for compressed air supply as it is self-aspirating
- Can supply oxygen for aeration in breakdown or overload circumstances
- Low noise level compared to surface systems
- No aerosol effect
- Can be used where water levels vary
- Special structures such as bridges, not needed

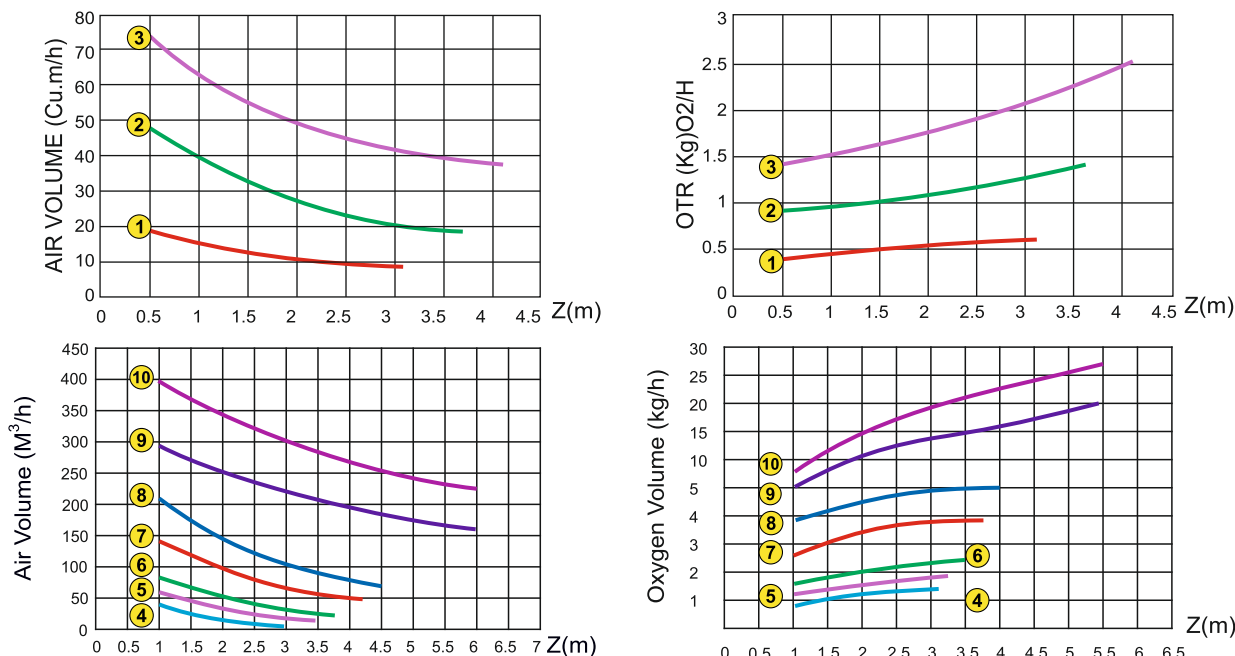
Application

- Equalization tank
- Sequential batch reactor treatment plant
- Ponds aeration
- Aerobic digester
- Homogenization tanks
- Ideal for cleaning of storm tanks
- Used in balance tanks to mix effluent while the addition of oxygen helps prevent septicity

Performance Chart

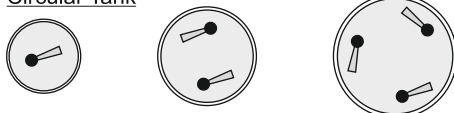
Sl.NO	Model	Pump Model	HP / kW	Voltage (v)	Phase	Pipe Size (mm)	Speed (rpm)	Max. Submergence Depth (m)	Solid Size (mm)
1	50 PAJ - 2 - 1.0	50 PD - 14 - 7 - 1.0	1.0 / 0.75	415 / 220	3P / 1P	50	2880	2	5
2	50 PAJ - 3 - 2.0	50 PD - 16 - 12 - 2.0	2.0 / 1.5	415 / 220	3P / 1P	50	2880	3	5
3	50PAJ - 5 - 3.0	50 PDS - 24 - 15 - 3.0	3.0 / 2.2	415	3P	50	2880	5	5
4	80 PAJ - 3 - 3.0	80 PDS - 40 - 8 - 3.0	3.0 / 2.2	415	3P	80	1440	3	8
5	80 PAJ - 4 - 5.0	80 PDS - 80 - 10 - 5.0	5.0 / 3.7	415	3P	80	1440	4	8
6	80 PAJ - 5 - 5.0	80 PDS - 60 - 13 - 5.0	5.0 / 3.7	415	3P	80	1440	5	8
7	100 PAJ - 5 - 7.5	100 PDS - 65 - 15 - 7.5	7.5 / 5.5	415	3P	100	1440	5	10
8	100 PAJ - 6 - 10	100 PDS - 100 - 14 - 10	10.0 / 7.5	415	3P	100	1440	6	10
9	150 PAJ - 6 - 15	150PS - 170 - 14 - 15	15.0 / 11.0	415	3P	150	1440	5	12
10	150 PAJ - 6 - 20	150PS - 200 - 13 - 20.0	20.0 / 14.5	415	3P	150	1440	6	15

Performance Curve



Suggested Installation pattern

Circular Tank



Rectangular Tank



Note : Only for reference purpose

Sharp Pumps Pvt. Ltd.,

Point Arcade, Sharp Nagar, Kalappatti, Coimbatore 641 048. TN, INDIA.

Ph : 9047777757, 9786197100.

Email : marketing@pointpumps.com

www.pointpumps.com

