



Frequently Asked Questions (FAQs)

1) What are the benefits of using Aeration Tube over paddle wheel aerators or other methods?

- ✓ Upto 3 times higher Dissolved Oxygen (DO) because of higher Standard Oxygen Transfer Rate (SOTR). Upto 3 times Lower power consumption.
- ✓ Good DO at pond bottom also where other methods fail. Better immunity and higher survival rate because of good DO.
- ✓ Higher Stocking density
- ✓ Better and faster growth of species and probiotics. Better organic conversion of waste due to good growth of probiotics

2) How is AirOxi tube different from using other submerged methods like jet aerators

- ✓ The tube is made of a special elastomeric compound that gives it the property of micro holes with very small bubble size. This ensures that the bubble size is very small and oxygen transfer is very high. The other methods are not able to get this level of oxygen transfer.

3) What is the air flow rate of the tube?

- ✓ The designed air flow is 0.8 m³/hr for high efficiency but the actual working flow rate will depend on many parameters like installation depth, design used to install the tube, blower type and capacity, inlet pipe size and inlet pressure.

4) If there are holes, do they choke up when used in the pond?

- ✓ The tube is designed with micro holes to maximize efficiency of oxygen transfer. But since it will be in water all the time, the quality of the water will affect the tube condition and it may have blocked holes. Besides that, it is always better to clean it between cultures. However what is important customers is that at least through the length of the culture, there is no need to clean the tube. For this many preventive actions can be taken.

5) What kind of preventive actions will prevent blocking of tube

Blocking or clogging of holes may happen depending on how proper is the installation, how often is it used and the conditions in the pond. There are few simple ways to ensure that the holes do not block

- Installing the tube 12-18" above pond bottom will prevent sludge from sticking to the tube
- Continuous use to give high aeration will also not allow any waste to stick to the tube



- Installation in lengths of less than 3 mtrs. Contact our representative for advice on which designs work best and can avoid such problems.
- Ensuring large size inlet pipe (at least 32 mm) from header pipe to the tube so there is minimum pressure drop and sufficient air is available as per the designed air flow of the tube

6) So how often is it required to clean the tube?

- ✓ How frequently the tube has to be cleaned depends on pond water conditions. In some ponds cleaning is not required for 3-4 months (and so it is done after the harvest). And in some cases it needs to be done once in 10 days.
- ✓ The difference is because of water conditions and also how often the air is blown and if installation is as per recommended length and inlet pipe size used for air flow. For proper installation and continuous use the tube will not be normally required to be cleaned during culture.

7) I do not want to clean the tube during the culture. What is the best way to ensure that cleaning is not required during the culture and I can do it after the harvest?

- ✓ Install AirOxi tube at a height of 12 to 15"
- ✓ Keep length of tube around 2 mtrs in single length or 5 mtrs in Grid
- ✓ Ensure good size of inlet pipe – 16 mm for 2 mtrs and 32 mm for 5 mtrs
- ✓ Use continuously, 24 x 7

8) How do we know if the holes are getting blocked and how do we clean it?

- ✓ Even before the air flow is visibly reduced, the pressure gauge will show an increase in operating pressure. Which means you can take up preventive cleaning rather than waiting for the air flow to visibly reduce.
- ✓ Cleaning is simple using a rough cleaning surface tool that will pull out the sludge sticking on the surface (e.g.: A rough scraper that will not push the sludge deeper in the tube). You can also dip the tube in solutions that will clean organic waste like bleaching powder or hydrogen peroxide or strong industrial acid. You can also contact our representative for more information on which tools and methods are most effective.

9) What is the warranty on the product and what is the expected usable life?

- ✓ AirOxi tube has a 1 year warranty against manufacturing defect. The tube can be used for many years with simple and proper maintenance. It is however recommended that you change the tube once it is used for a few seasons, to good flow rate and oxygen transfer.