

FINE BUBBLE TUBE DIFFUSER

Product Introduction

Fine Bubble Tube Diffuser can be connected on one side or in pairs to different rectangular and round tubes (ABS material) with the appropriate adapter. The membranes are manufactured with premium quality EPDM material and are available with fine or coarse-bubble perforation.

The support tubes (ABS or PVC material) can be reused when membrane are replaced. The units offer maximum performance at minimum cost and require minimum maintenance.



Typical applications

- Preservation aeration of waste water
- Oxygenation of activation basins
- Oxygenation to stabilize sludge
- Aeration of rivers and lakes
- Aeration of fish ponds
- CO₂ admission for neutralization

Features

- High oxygen transfer efficiency
- Low cost of total ownership
- Anti-clogging, corrosion resistant
- Ease of installation, 2 minutes for one diffuser
- Maintenance-free design, 8 years service life
- EPDM membrane with excellent performance



Technical Parameters

Type	Membrane Tube Diffuser		
Image			
Model	Φ63	Φ93	Φ113
Length	500/700/1000mm	500/700/1000mm	500/700/1000mm
MOC (Material of construction)	EPDM/Silicon membrane ABS tube	EPDM/Silicon membrane ABS/PP carrier plate	EPDM/Silicon membrane ABS/PP carrier plate
Connector	1" NPT male thread 3/4" NPT male thread	1" NPT male thread 3/4" NPT male thread	1" NPT male thread 3/4" NPT male thread
Bubble Size	1-2mm	1-2mm	1-2mm
Design Flow	1.7-6.8m³/h	3.4-13.6m³	3.4-17.0m³/h
Flow Range	2-14m³/h	5-20m³/h	6.28m³/h
SOTE (Standard Oxygen Transfer Efficiency)	≥ 40 % (6M Submerged)	≥ 40 % (6M Submerged)	≥ 40 % (6M Submerged)
SOTR (Standard Oxygen Transfer Rate)	≥ 0.90kg O₂/h	≥ 1.40kg O₂/h	≥ 1.52kg O₂/h
SAE (Standard Aeration Efficiency)	≥ 8.6kg O₂/kW.h	≥ 8.6kg O₂/kW.h	≥ 8.6kg O₂/kW.h
Headloss	2200-4800Pa	2200-4800Pa	2200-4800Pa
Service Area	0.75-2.5m²	1.0-3.0m²	1.5-2.5m²
Service Life	> 5 years	> 5 years	> 5 years