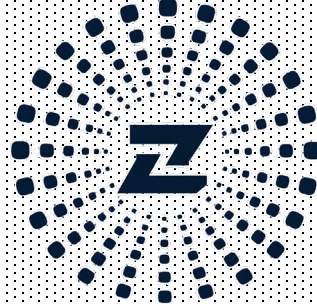




ZISTA Baero
Diffusers



**Innovative Aeration Solutions for Water &
Wastewater Treatment**

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ZAPCO (Zistab Pajoohesh)

Founded in 2005, ZAPCO (Zistab Pajoohesh) is a specialized company active in the design, engineering, and construction of water and wastewater treatment plants and equipment. With more than 50 completed projects, ZAPCO has established itself as a trusted partner for municipalities, industries, and environmental organizations.

Our Expertise

ZAPCO offers complete solutions in the field of water and wastewater management, combining innovative engineering with high-quality products. Our team focuses on delivering reliable, efficient, and cost-effective treatment systems that address today's environmental challenges.

Our Products

A key part of ZAPCO's portfolio is its high-efficiency aeration systems. We design and manufacture:

- ZFD and ZCD Disc Diffusers
- ZFT and ZCT Tube Diffusers

Both are engineered for high oxygen transfer efficiency, low head loss, and long service life. These products are designed to ensure optimum performance in municipal, industrial, and environmental treatment facilities.

Our Commitment

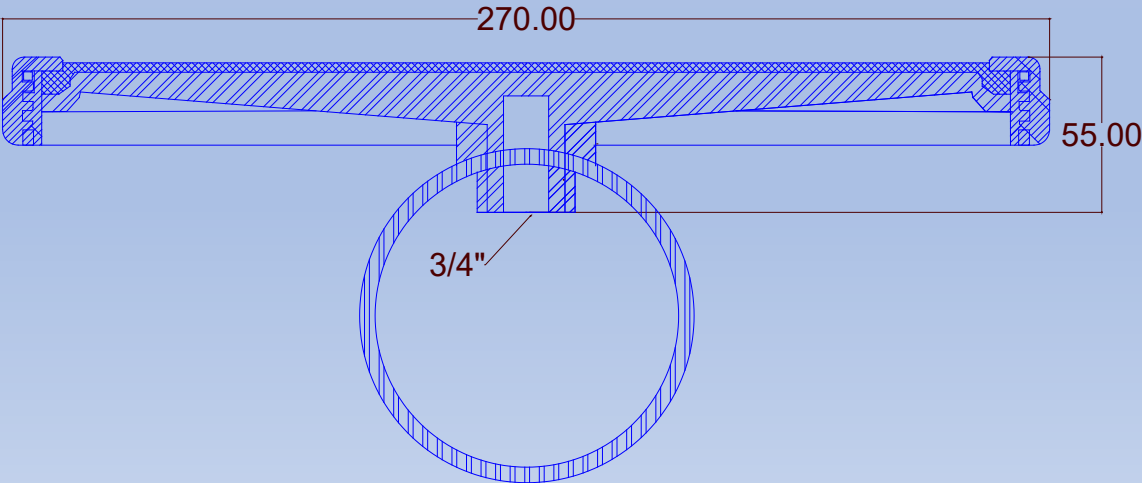
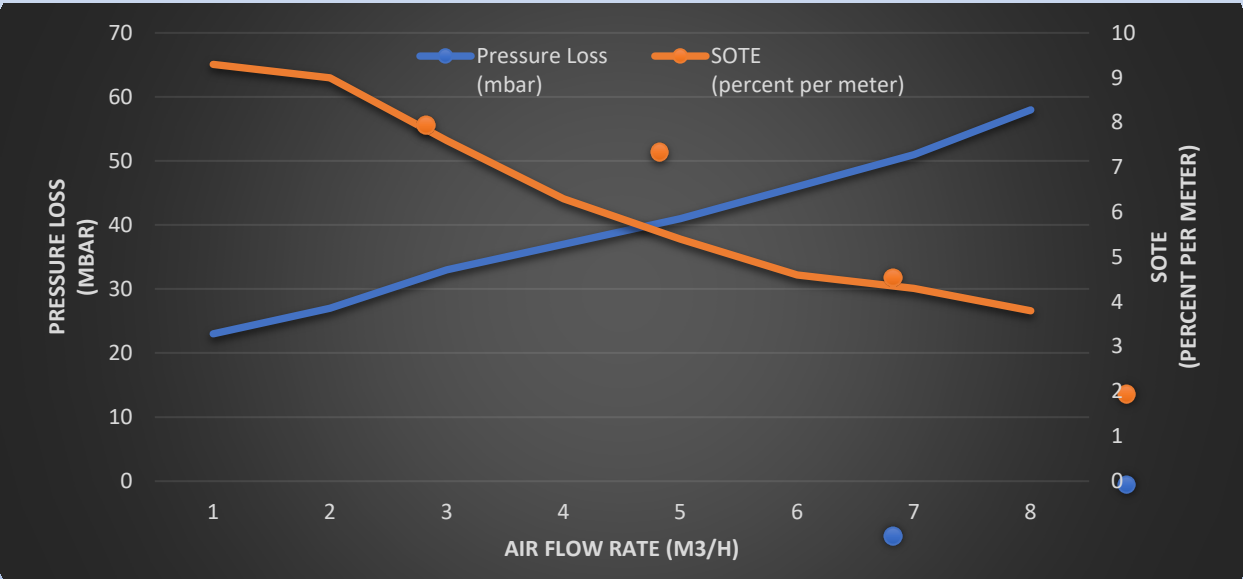
At ZAPCO, we prioritize:

- Quality & Durability – ensuring every product meets rigorous standards.
- Customer Success – focusing on performance and satisfaction at every stage.
- Sustainability – helping communities and industries reduce their environmental footprint.



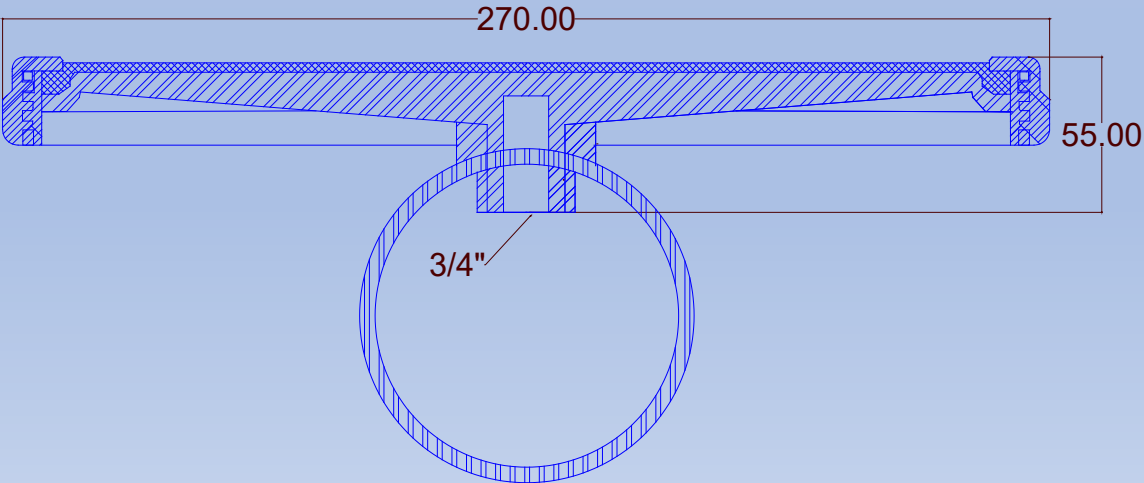
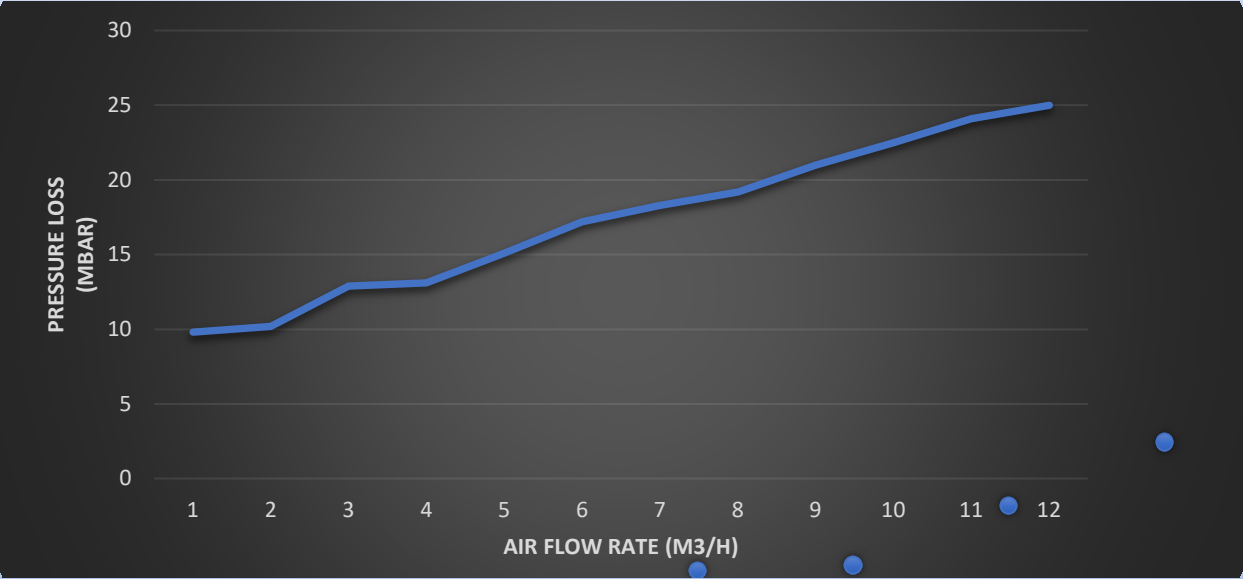
Disc Diffuser ZFD-270 Datasheet

Parameter	Value
Diameter (mm)	270
Membrane/body Material	EPDM/PP
Bubble Size (mm)	1.0 – 3.0
Flow Rate at max overload/maintenance (m³/h)	10
Flow Rate at standard operation conditions (m³/h)	3-7
Oxygen Transfer Efficiency	~ 5% per meter
Pressure Loss @ Design Flow (mbar)	20 – 90
Service Life (years)	3 – 7
Perforation Count (approx.)	4000



Disc Diffuser ZCD-270 Datasheet

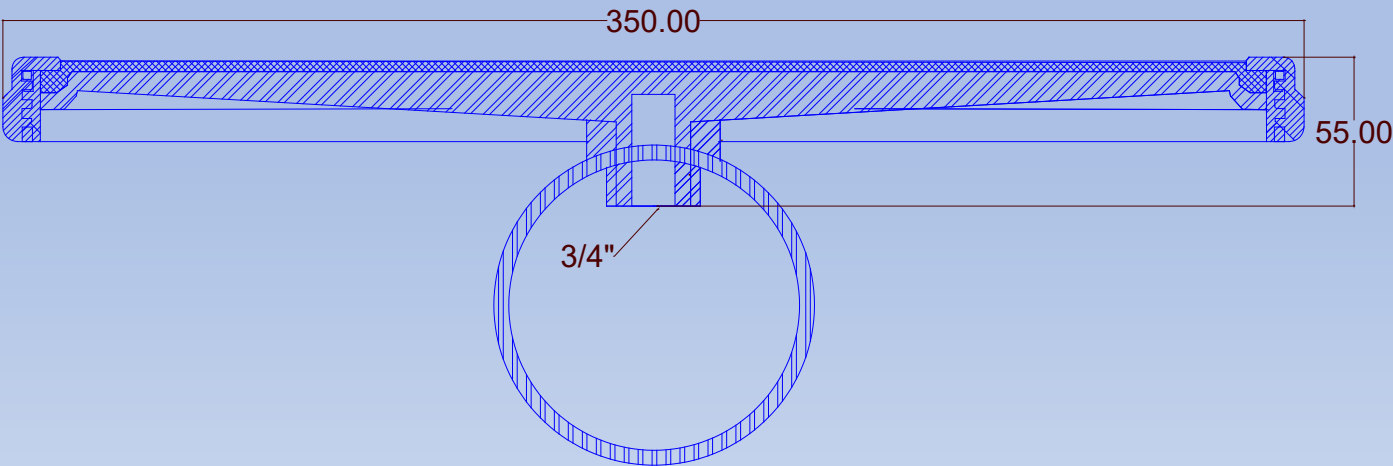
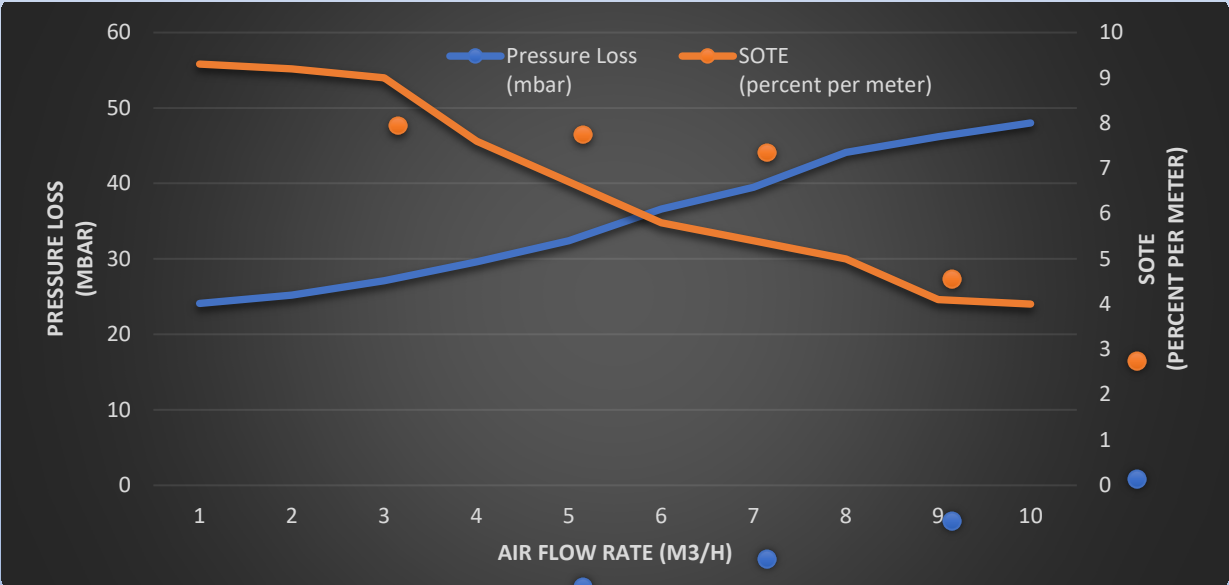
Parameter	Value
Diameter (mm)	270
Membrane/body Material	EPDM/PP
Bubble Size (mm)	5.0 – 10.0
Flow Range (m³/h)	2.0 – 12.0
Average design Flow Range (m³/h)	4.0-10.0
Oxygen Transfer Efficiency	mixing
Pressure Loss @ Design Flow (mbar)	9 – 20
Service Life (years)	3 – 7
Perforation Count (approx.)	600



Disc Diffuser Series — ZFD

ZFD-350 Datasheet

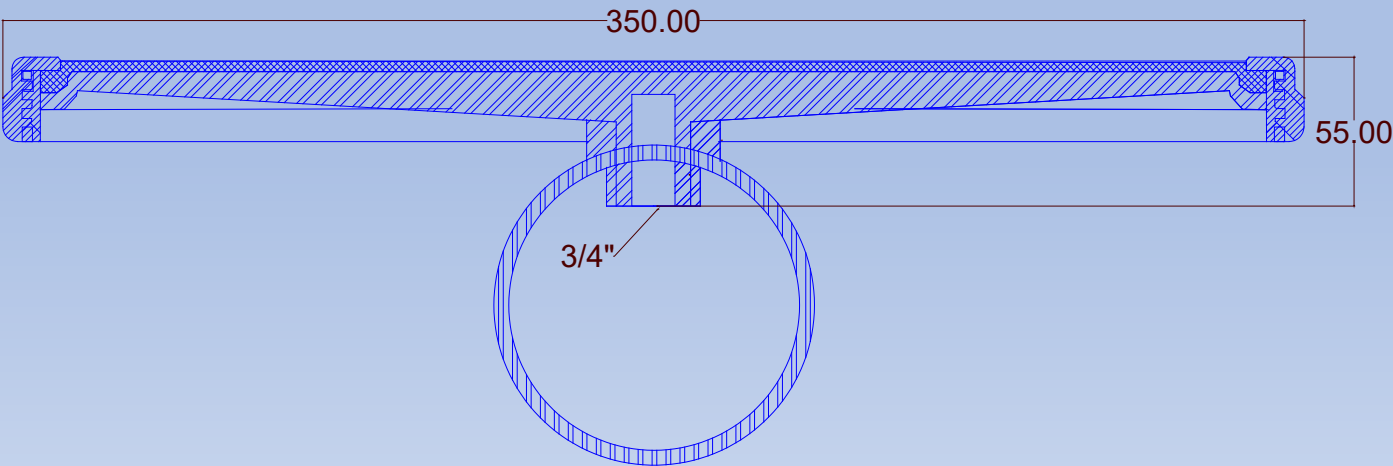
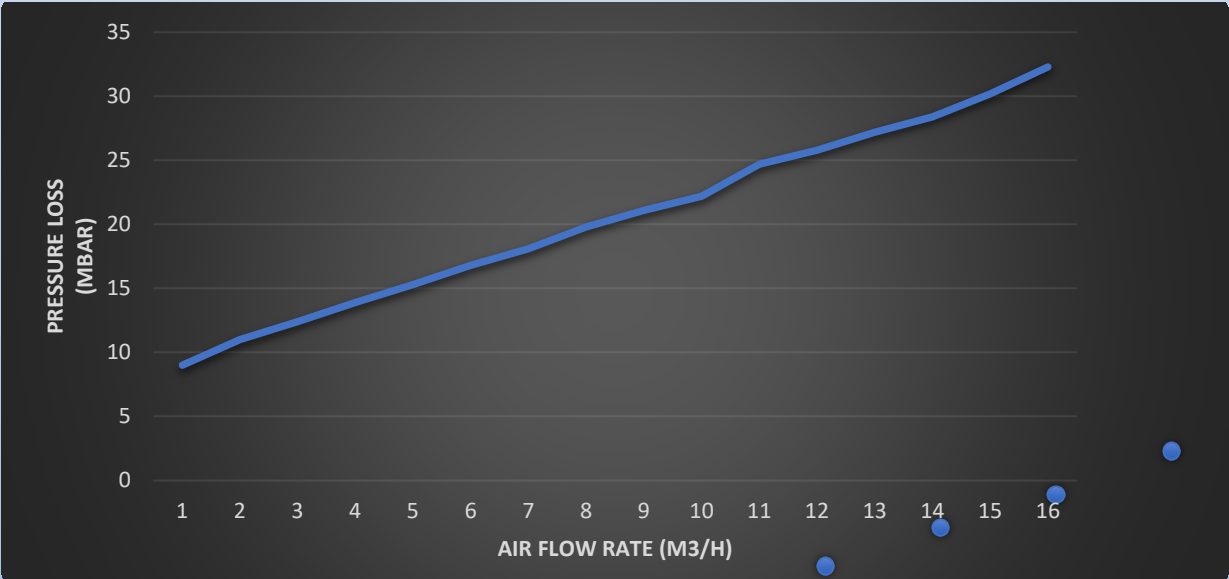
Parameter	Value
Diameter (mm)	350
Membrane/body Material	EPDM/PP
Bubble Size (mm)	1.0 – 2.0
Flow Range (m³/h)	2.0 – 12.0
Average design Flow Range (m³/h)	5.0-7.0
Oxygen Transfer Efficiency	5% per meter
Pressure Loss @ Design Flow (mbar)	20 – 58
Service Life (years)	3 – 7
Perforation Count (approx.)	6000



Disc Diffuser Series — ZFD

ZCD-350 Datasheet

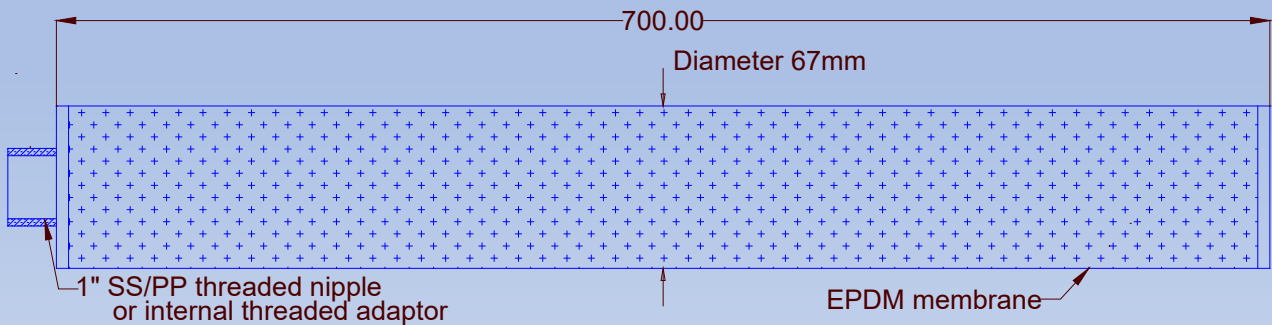
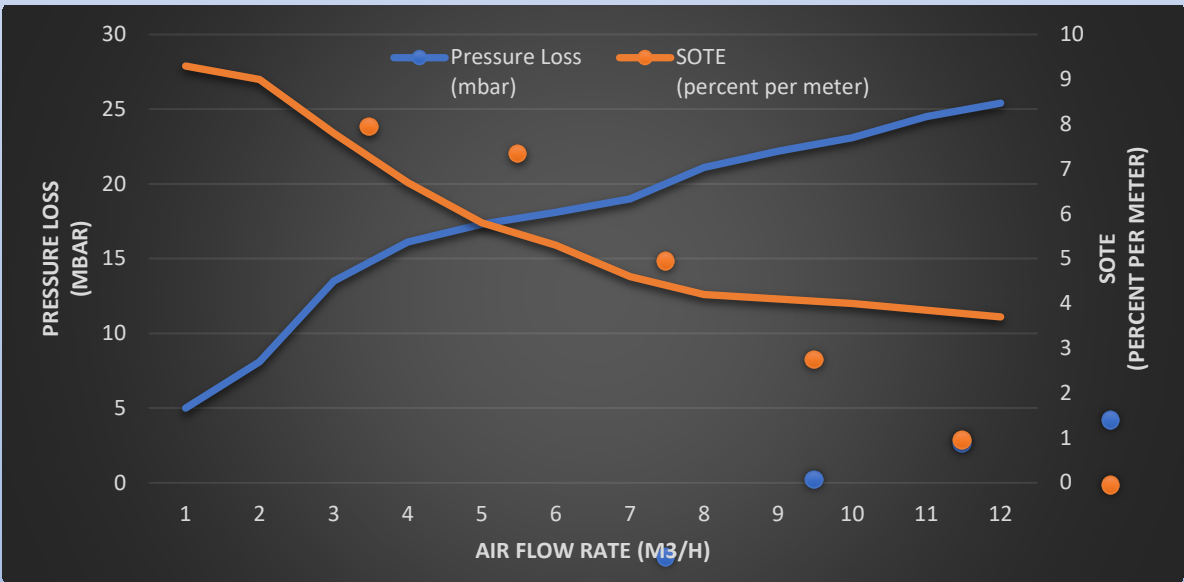
Parameter	Value
Diameter (mm)	350
Membrane/body Material	EPDM/PP
Bubble Size (mm)	5.0 – 10
Flow Range (m³/h)	2.0 – 16.0
Average design Flow Range (m³/h)	5.0-12.0
Oxygen Transfer Efficiency	mixing
Pressure Loss @ Design Flow (mbar)	9 – 32
Service Life (years)	3 – 7
Perforation Count (approx.)	800



Tube Diffuser Series — ZFT

ZFT-750 Datasheet

Parameter	Value
Diameter (mm)	63
Length Options (mm)	750
Bubble Size (mm)	1 – 2
Flow Range (m³/h)	2 – 12
Average design Flow Range (m³/h)	3.0-7.0
Service Area (m²)	0.75-1.5
Pressure Loss @ Design Flow (mbar)	5 – 25
Service Life (years)	3 – 7
Membrane/body Material	EPDM/UPVC



Selected References

- Broojen wastewater treatment plant
- Ekbatan wastewater treatment plant
- Jajrood wastewater treatment plant
- Tehran western wastewater treatment plant
- Tehran Farahzad wastewater treatment plant
- Zanjan university wastewater treatment plant

Applications

- Municipal and industrial wastewater treatment
- SBR/MBR basins and oxidation ponds
- Aquaculture ponds and fish farms
- River and lake restoration aeration

Maintenance Guide

- Monitor system backpressure at constant airflow.
- Clean when pressure loss increases (~30 mbar).
- Use soft brush and water rinse; avoid harsh chemicals unless specified.
- Replace membranes when performance declines.

Contact Information

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