KAISZER PUMP
WATER & WASTEWATER TREATMENT

Fine bubble diffuser

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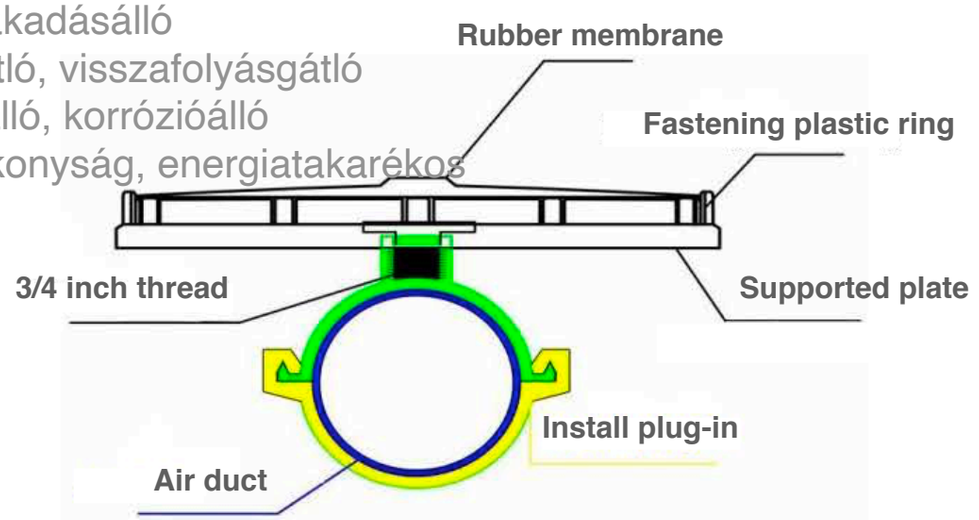
About.

Fine Bubble Disc Diffuser features a unique split pattern and slit shapes, which can disperse for high oxygen transfer efficiency. A much highly effective and integrated check valve enables the aeration zones to be easily shut down for air-on/air-off applications. The membrane disc diffuser can be operated over wide range of airflows with minimum maintenance for long term performance.

Features

- Low resistance loss
- Highly TearResistant
- Anti-clogging, anti-backflow
- Ageing-resistant, anti-corrosion
- High efficiency,energy-saving

- Alacsony ellenállásveszteség
- Erősen szakadásálló
- Dugulásgátló, visszafolyásgátló
- Öregedésálló, korrózióálló
- Nagy hatékonyság, energiatakarékos



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Different Membrane Material of Diffuser

1EPDM
Epdm can resist heat, light, oxygen, especially ozone. Epdm is essentially non-polarity, polarity solution and chemical resistant, bibulous is low, it has good insulating properties.

2.Silicon
Insoluble in water and any solvent, non-toxic and tasteless, chemical properties stable, except strong alkali, hydrofluoric acid not react with any material.

3.PTFE

- High and low temperature resistant, working temperature can be 250ºC, good mechanical toughness; even if temperature drops to -196ºC also can keep 5% elongation.
- Corrosion - resistence to most chemical and solvents, showing inertia, strong acid resistance, water and various organic solvents.
- High lubrication - the lowest friction coefficient in solid materials.
- Non- adhesion - is the smallest surface tension in a solid material and does not adhere to any

Model	KNR170	KNR215	KNR260	KNR350
Picture				
Bubble Type	Coarse bubble	Fine bubble	Fine bubble	Fine bubble
Size	6 inch	8 inch	9 inch	12 inch
Bubble Size	4-5mm	1-2mm	1-2mm	1-2mm
MOC (Material of construction)	EPDM/Silicon/ PTFE membrane ABS carrier plate	EPDM/Silicon/PTFE membrane Strengthened PP+GF (Glass Fiber) carrier plate	EPDM/Silicon/PTFE membrane Strengthened PP+GF (Glass Fiber) carrier plate	EPDM/Silicon/ PTFE membrane ABS carrier plate
Connector	3/4" NPT male thread	3/4" NPT male thread	3/4" NPT male thread	3/4" NPT male thread
Design Flow	1-5m³/h	1.5-2.5m³/h	3-4m³/h	5-6m³/h
Flow Range	6-9m³/h	1-6m³/h	1-8m³/h	1-12m³/h
SOTE (Standard Oxygen Transfer Efficiency)	10 % (6M Submerged)	38 % (6M Submerged)	38 % (6M Submerged)	38 % (6M Submerged)
SOTR (Standard Oxygen Transfer Rate)	0.21kg O_2/h	0.31kg O_2/h	0.42kg O_2/h	0.75kg O_2/h
SAE (Standard Aeration Efficiency)	7.5kg O_2/kW.h	8.9kg O_2/kW.h	8.9kg O_2/kW.h	8.9kg O_2/kW.h
Headloss	2000-3000Pa	2000-4500Pa	2000-4300Pa	2000-4200Pa
Service Area	0.5-0.8m²/pcs	0.2-0.64m²/pcs	0.25-1.0m²/pcs	0.4-1.5m²/pcs
Service Life	> 5 years	> 5 years	> 5 years	> 5 years