

FINE BUBBLE DISC DIFFUSER

Product Introduction

Fine Bubble Disc Diffuser features a unique split pattern and slit shapes, which can disperse air bubbles in an extremely fine and uniform pattern 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 a wide range of airflows with minimum maintenance for long term performance.



Features

- * Low resistance loss
- * Highly Tear Resistant
- * Anti-clogging, anti-backflow
- * Ageing-resistant, anti-corrosion
- * High efficiency, energy-saving
- * Long service life, low maintenance
- * Compact structure, strong support



Different Membrane Material of Diffuser

1. EPDM

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

2. Silicon

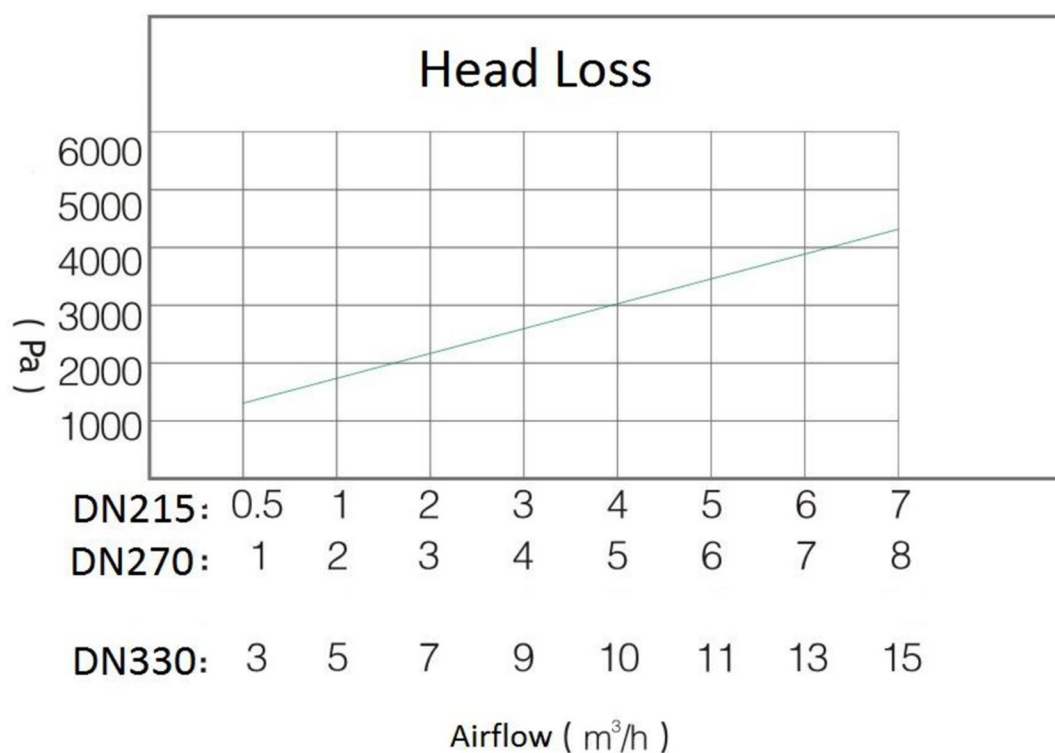
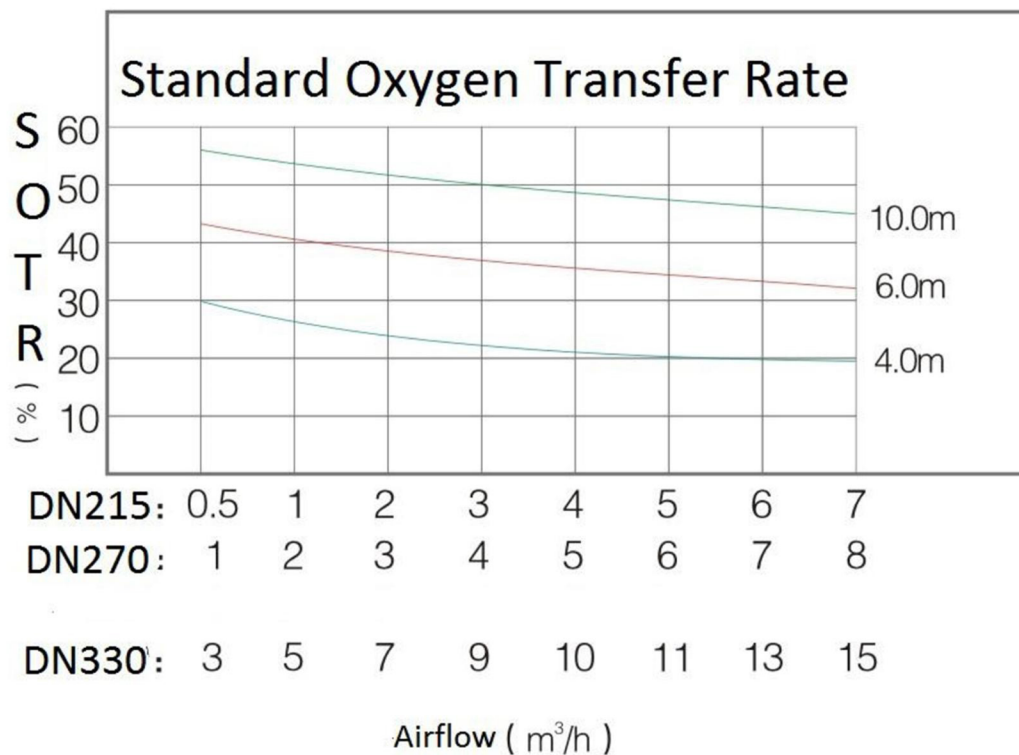
Insoluble in water and any solvent, non-toxic and tasteless, chemical properties stable, except strong alkali, hydrofluoric acid not react with any material.

3. PTFE

- ① High and low temperature resistant, working temperature can be 250°C, good mechanical toughness; even if temperature drops to -196°C also can keep 5% elongation.
- ② Corrosion - resistance to most chemicals and solvents, showing inertia, strong acid resistance, water and various organic solvents.
- ③ High lubrication - the lowest friction coefficient in solid materials.
- ④ Non - adhesion - is the smallest surface tension in a solid material and does not adhere to any substance.

Technical Parameters

Model	HLBQ-170	HLBQ-215	HLBQ-270	HLBQ-330	HLBQ-650
Bubble Type	Coarse Bubble	Fine Bubble	Fine Bubble	Fine Bubble	Fine Bubble
Image					
Size	6 inch	8 inch	9 inch	12 inch	675*215mm
MOC	EPDM/Silicone/PTFE – ABS/Strengthened PP-GF				
Connector	3/4"NPT male thread				
Membrane Thickness	2mm	2mm	2mm	2mm	2mm
Bubble Size	4-5mm	1-2mm	1-2mm	1-2mm	1-2mm
Design Flow	1-5m ³ /h	1.5-2.5m ³ /h	3-4m ³ /h	5-6m ³ /h	6-14m ³ /h
Flow Range	6-9m ³ /h	1-6m ³ /h	1-8m ³ /h	1-12m ³ /h	1-16m ³ /h
SOTE	≥10%	≥38%	≥38%	≥38%	≥40%
	(6m submerged)	(6m submerged)	(6m submerged)	(6m submerged)	(6m submerged)
SOTR	≥0.21kg O ₂ /h	≥0.31kg O ₂ /h	≥0.45kg O ₂ /h	≥0.75kg O ₂ /h	≥0.99kg O ₂ /h
SAE	≥7.5kg O ₂ /kw.h	≥8.9kg O ₂ /kw.h	≥8.9kg O ₂ /kw.h	≥8.9kg O ₂ /kw.h	≥9.2kg O ₂ /kw.h
Headloss	2000-3000Pa	1500-4300Pa	1500-4300Pa	1500-4300Pa	2000-3500Pa
Service Area	0.5-0.8m ² /pcs	0.2-0.64m ² /pcs	0.25-1.0m ² /pcs	0.4-1.5m ² /pcs	0.5-0.25m ² /pcs
Service Life	> 5 years				



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