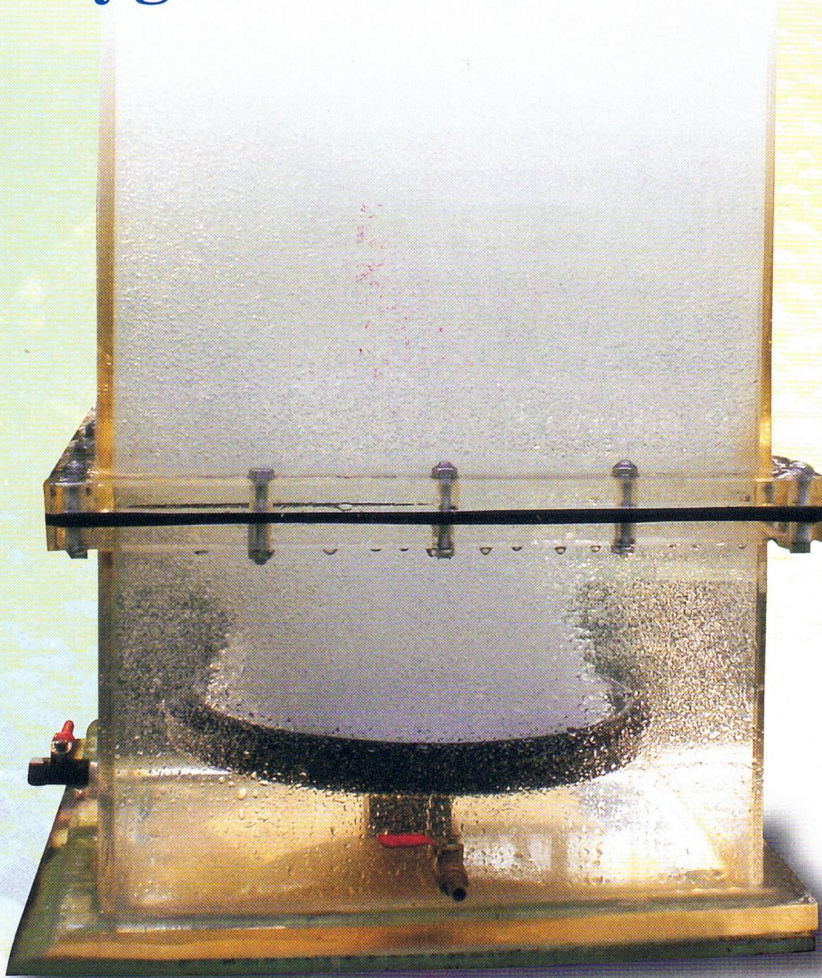




相同企業有限公司
SAME CO., LTD

高傳氧散氣盤

High Oxygen Transfer Disc Diffuser



傳氧效率表

Table of oxygen transfer efficiency rate (OTE)

工業技術研究院
Industrial Technology
Research Institute

| 規格 Model/Specification | | 材質 Material | |
|------------------------|------------------------------|------------------------|------------------------|
| 直徑 Diameter | Ø300mm | 基座 Seat | ABS |
| 接頭 Connector | Ø3/4" NPT | 透氣膜 Air membrane | a high polymer(高分子) |
| 曝氣量 Aeration volume | 0.01~0.10m ³ /min | 拉力 Tension strength | >10kgf/25cm |
| 逆止膜材 | EPDM | 伸長率 Elongation rate | <20% |
| | | 基重 Basic weight | 170±15g/m ² |
| | | 厚度 Thickness | 0.85±0.05mm |

| 種 (-) | 風量 (Lpm) | KL _a 20值 (1/h) | 傳氧效率(SORT) (%) | 備考 |
|--|-------------|------------------------------|-------------------|---------------------|
| 相同散氣盤 SAME Disc Diffuser | 60 | 35.1 | 18.3 | 18.3~25.4 *60~30Lpm |
| | 50 | 32.8 | 20.4 | |
| | 40 | 29.8 | 23.2 | |
| | 30 | 24.4 | 25.4 | |
| | 20 | 17.2 | 26.9 | |
| 市售散氣盤 Ordinary market disc diffusers | 60 | 33.5 | 17.4 | 17.4~21.8 *60~30Lpm |
| | 30 | 21.0 | 21.8 | |

主要性能及結構

本設備採用低阻抗材質，膜面為高分子長纖不親水性經特殊光滑處理，具有6000個/cm²以上之透氣孔設計，通氣後呈放射狀細氣泡，其風壓損失小於200mmAq(水柱)。在散氣膜片與通氣口間還設有一逆止閥，該逆止閥具有一可對應倒錐形柱體，及一可向上頂撐開散氣膜片，向下封密通氣孔之閥瓣。因其透氣膜為高分子長纖結合其表面抗張強度經測試為10kg/25mm以上，並具20%以下之低延伸率，更適合使用於深度較深之曝氣功能。

Main functions & structure

Made up of low resistance materials, the device has a membrane surface composed of high polymer, hydrophobic long fibers. The specially gloss-treated surface is designed with more than 6000/cm² pores to generate radiating fine air bubbles with less than 200mmAq (Aqua) wind pressure.

The check valve located at the diffuse membrane and the air opening is installed with a corresponding inverted cone, an upward diffuse membrane, and a downward sealed air valve.

The high polymer long fibers, combining with tensile resistance strength of more than 10kg/25mm, and an elongation rate of less than 20%, make our diffuser more suitable for aeration function in deeper water.

產品特點

高強度、耐高溫(150°C)性能好(可在90°C環境中長期使用)、耐老化、抗紫外線、穩定性和輕質、透氣性好、耐腐蝕、耐酸，鹼性強，風壓損失低。

Features

High strength, high thermal resistance of up to 150°C, good functionality (long durability under environment of 90°C), aging resistant, anti-ultraviolet rays, high stability and light-weight, super ventilation, anti-erosion, anti-acid, strong basicity, and low wind pressure loss.

高傳氧效率

當空氣通過散氣盤時，超過6000個/ft²細小孔隙均勻的分布在散氣盤膜片上，並且不斷地產生0.5~3mm粒徑之細小氣泡，大大地增加空氣與水接觸面積，經工研院能環所實際檢測能有效地提高空氣在水中傳氧效率到達26%以上。

High oxygen transfer efficiency

When air passing through more than 6000/cm² pores distributed evenly across the membrane of the disc diffuser, it continuously generates fine bubbles with a grain diameter of 0.5 ~ 3mm, which can increase air-water contact area to a great extent. SAME Disc Diffuser has been scientifically proven to have an oxygen transfer rate of over 26% by the Energy and Environment Research Laboratories of Industrial Technology Research Institute.

