

Oxygen Transfer Technology

EFFICIENCY BY DESIGN

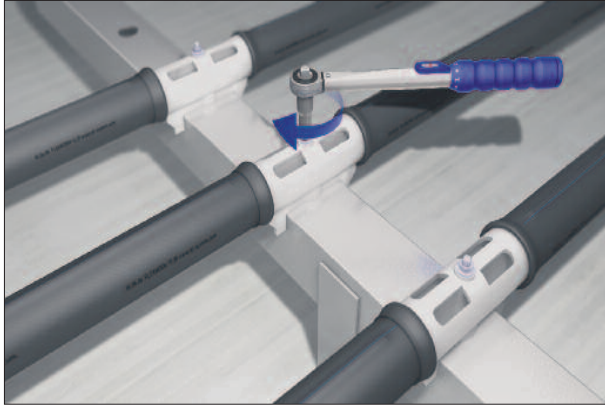


OTT GROUP



MAGNUM[®] CLIPIN[®]

Innovative design



The OTT MAGNUM® diffuser has been the leading diffuser of choice for use in the demanding German aeration market for more than 10 years.

The OTT MAGNUM® support core was designed to combine the best combination of important ratios: highest strength to weight; the lowest installation time to active membrane surface; lowest piping length to diffuser length ratios and lowest buoyancy to weight - an unrivaled combination. These factors yield an installed

cost that is competitive with, if not lower than, any other system designed to efficient standards.

Constructional details such as the **CLIP IN®** connection and the membrane guide rib on the upper side of the support core are a solid basis for operational reliability and durability.

Every diffuser is air flow and pressure tested at the factory to ensure the highest degree of quality control and product uniformity. To the client, this guarantees an optimized, highly reliable and efficient aeration process for many years to come.



Stainless steel clamps

Membranes are retained on the diffuser body by stainless steel clamps which provide a uniform clamping pressure without wrinkling the membranes. Extra membrane material is provided to fold over the clamps for personnel and membrane protection.

Membranes

FLEXSIL® or FLEXNORM® Tubular membranes are optimally tailored to the type of wastewater and application. The highest quality standards and extensive QA/QC checks ensure continual high performance and reliability.

Fold-free membrane

The patented molded profile of the OTT core tube guarantees the membrane is fold-free whenever process air is switched off, especially in intermittent operations. This primary and unique detail is the basis for a high degree of mechanical integrity and durability of membranes.

Perforation

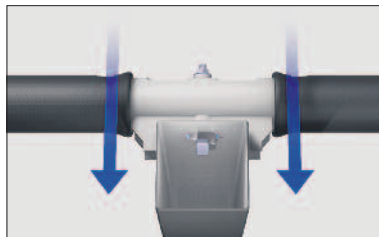
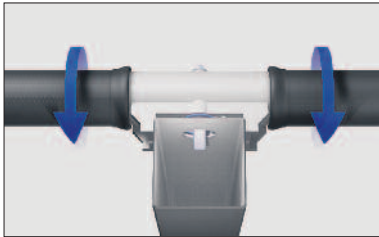
The OTT perforation technique delivers an optimum bubble pattern. This method is but one of many features that give OTT diffusers unrivalled efficiency. The efficiency of OTT diffusers has been proven by the results of numerous independent performance tests. The perforation of the membrane can be geared to plant-specific requirements – just talk to us.

Single-piece construction

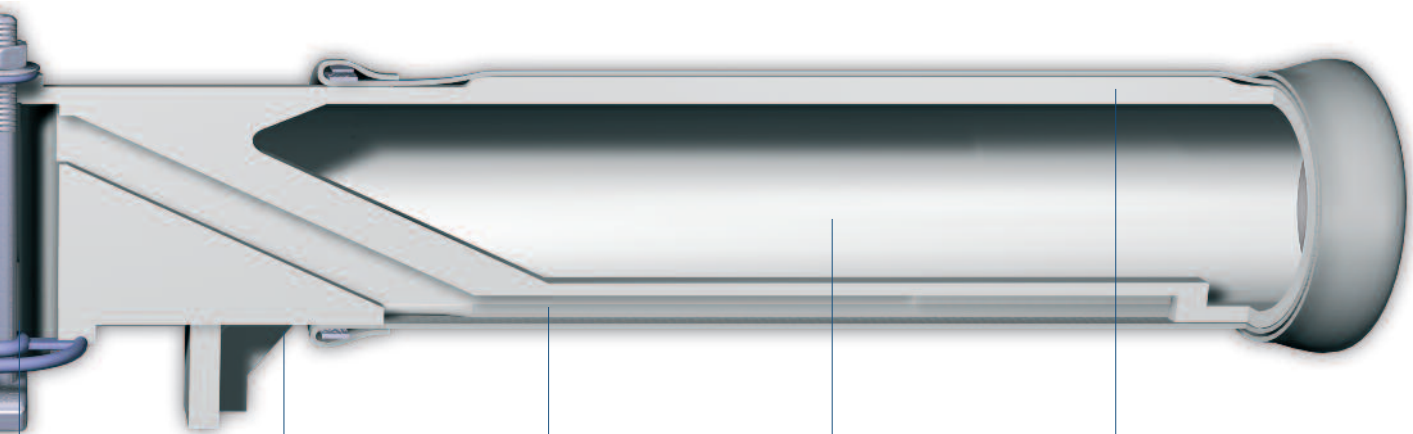
The MAGNUM® diffuser is a single piece, injection molded membrane support tube made of virgin, recyclable polypropylene (PP). The structure and design make the MAGNUM® core a unique product. Environmental sustainability of your plant is enhanced by using recyclable, environmentally inert materials. Quality is maintained by computer controlled production.

The benefits at a glance

- + Single-piece diffuser tube made from environmentally-friendly polypropylene
- + Effective lengths: 1000, 1500 und 2000 mm
- + Suitable for square and circular air headers
- + Only one hole needed in the header-pipe
- + Simple and fast installation
- + High-quality membranes for any application



Technical data, installation video and installation instructions at www.ott-group.com



CLIP IN®
The patented CLIP IN® locking bolt makes the MAGNUM® the easiest and quickest diffuser to install.

Mounting socket
MAGNUM® diffusers are available with connections to accommodate commonly available square and round pipe sizes.

Air channel
Injection molding of the diffuser makes it possible to incorporate the air channel on the underside of the membrane support tube. The air channel evenly distributes air between the support tube and membrane. This yields a consistent bubble pattern even at low air flux rates, giving a clear edge over any competitor products.

Flooded tube
The membrane support tubes of the MAGNUM® diffuser core are open at the ends and in the center. Thus, the diffuser's buoyancy is minimized.

Lengths
The MAGNUM® is available in effective membrane lengths of 1,000, 1,500 and 2,000 mm. The overall diffuser length is 200 mm more in each case.

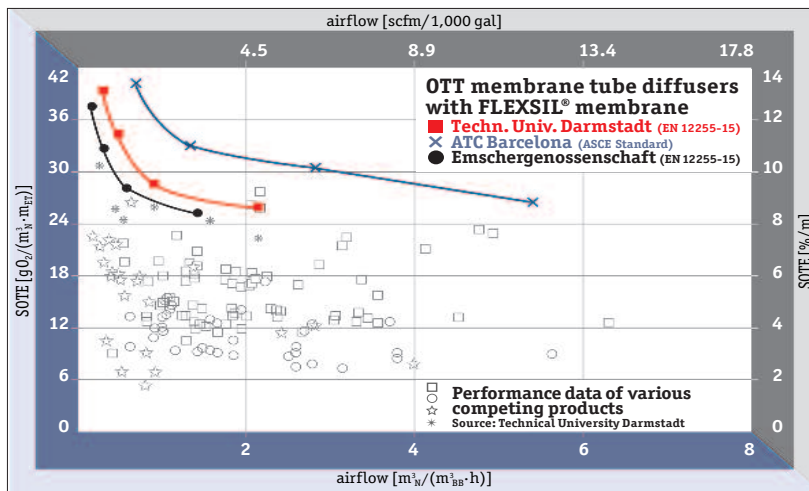
Membrane tube diffusers from OTT – Efficiency and Quality



HANAU WASTE WATER TREATMENT PLANT: AERATED WITH MAGNUM®2000 FLEXSIL® MEMBRANE DIFFUSERS.

Maximum membrane area distributed evenly over the aeration basin floor, on minimal number of diffusers, on minimal intelligent piping – the cost-efficient, effective, intuitive, proven long-term solution to your oxygen transfer needs.

OTT aeration systems – Performance data



TEST RESULTS OF OXYGEN TRANSFER TESTS BY INDEPENDENT INSTITUTES WITH FULL-FLOOR-COVERAGE OF THE BASINS. WE SHALL BE PLEASED TO SEND YOU THESE AND OTHER TEST REPORTS.



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