

MAGNUM[®]

membrane tube diffuser



The OTT **MAGNUM**[®] membrane tube 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**[®] 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 **MAGNUM**[®] guarantees the membrane is fold-free whenever process air is switched off, especially in intermittent operations. This detail is the basis for a high degree of mechanical integrity and durability of membranes.

Perforation

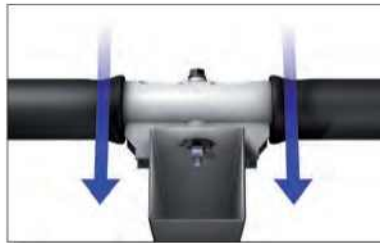
The OTT perforation technique delivers an optimum bubble pattern. This method is but one of many features that give OTT diffusers unrivaled efficiency. The efficiency of OTT diffusers has been proven by the results of numerous independent performance tests. The perforation of the membrane can be geared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

Single-piece construction

The **MAGNUM**[®] core 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

- + effective lengths: 1000, 1500 und 2000 mm
- + high-quality membranes for any application
- + simple and fast installation: **CLIP IN®**
- + suitable for square and circular air headers
- + single-piece diffuser tube made from environmentally-friendly polypropylene
- + only one hole needed in the header-pipe



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® membrane tube 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 MAGNUM® diffuser core is open at the ends and in the center. Thus, the diffuser's buoyancy is minimized.

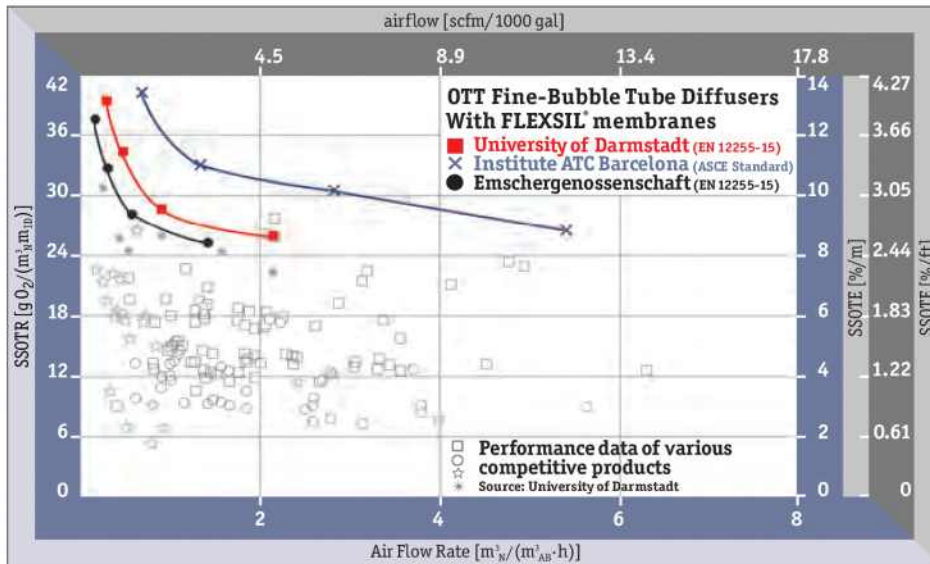
Lengths

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.

OTT's MAGNUM® membrane tube diffusers – efficiency and quality



Waste water treatment plant with MAGNUM® 2000 FLEXSIL® membrane tube diffusers.



Test results of different oxygen transfer measurements by independent institutes with full-floor-coverage of the basins. We shall be pleased to send you detailed test reports on request.