

Supratec

Gesellschaft für Umwelt-
und Verfahrenstechnik mbH

OXYFLEX[®] - MT235 / MT300 MEMBRANE DISC DIFFUSER



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OXYFLEX® - MT235 / MT300 **MEMBRANE DISC DIFFUSER**

DESIGNS

OXYFLEX® - MT Membrane Disc Diffusers consist of a flat, heavily ribbed and fibreglass-reinforced polypropylene base plate and a mounted membrane (e.g. EPDM).

The OXYFLEX® - MT Membrane Disc Diffuser is manufactured in two sizes: OXYFLEX® - MT 235 (free membrane diameter of 235 mm) and OXYFLEX® - MT 300 (free membrane diameter of 300 mm).

The base construction is a fibreglass-reinforced polypropylene disc. The membrane is form-fitted to this disc with a plastic ring made of fibreglass-reinforced polypropylene.

The OXYFLEX® - MT - MT is supplied with a robust 1" thread connector as standard. It is also available with a ¾" connector on request.

The OXYFLEX® - MT - MT AS design includes a clamp saddle for the assembly on round pipes.

MEMBRANE VARIANTS

Our disc diffusers are equipped with a robust EPDM membrane as standard. For special requirements, the MT300 is also available with silicon membranes.

The membrane has a special slot arrangement. The size and arrangement of the slots are such that the perfect oxygen transfer or minimum pressure loss is achieved for high specific loads depending on the application.

All OXYFLEX® - MT disc diffusers are available with both a fine bubble and coarse bubble membrane perforation.

PRODUCT CHARACTERISTICS

OXYFLEX® - MT Membrane Disc Diffuser

- ⇒ have a low pressure loss,
- ⇒ are resistant against contamination,
- ⇒ in the fine-bubble design, they produce gas bubbles with a diameter < 1-3 mm.

Since, in contrast to the tube diffusers, the entire diffuser surface is on the same hydraulic level, the gas through put is even across the entire membrane surface and control range. As a result, both the service life and performance are optimised.

OPERATING RANGE AND PERFORMANCE

OXYFLEX® - MT Membrane Disc Diffusers are suited for the installation on plastic or steel pipes and for all tank shapes, but they are particularly suited for small tank volumes, grit chambers and first high loaded stages.

OXYFLEX® - MT Membrane Disc Diffusers have successfully proven their capabilities in communal and industrial plants in all parts of the world. The membrane diffuser element can easily be changed if required.

OXYFLEX® - MT Membrane Disc Diffusers can be operated intermittently.

OXYFLEX® - MT Membrane Disc Diffusers have a very broad control range between 0 and 15 m³/h.

For normal specific loads please refer to the data sheets of the relevant variant.

OXYFLEX® - MT Membrane Disc Diffusers achieve very high oxygen transfer rates in pure water of more than 25 g O₂/ x m_{ET} for a flat layout and suitable water depths.



