



Application

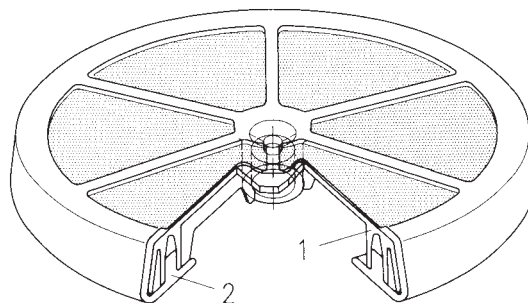
Diffuser for a fine bubble diffused aeration system suitable for intermittent and continuous operation in biological sewage treatment plants.

Description

Long-lived disc diffuser with lift control, backflow-preventer and low pressure-drop in corrosion-free design. The diffuser membrane is available in **EPDM** and **SILICON**.

Data

NEROX	diameter mm	height mm	aeration area m ²	buoyancy* N	weight N	connection
MP 340	330	45	0,063	35	13	R 3/4" i



* buoyancy without pipes
diffuser weight included

Parts for one diffuser

Part	No.	dimensions mm	material
supporting plate	1	320 height 45	PP fibre-glass reinforced
membrane	2	330 thickness 1,8	EPDM hardness 65° ± 5 Shore A SILICON hardness 60° ± 5 Shore A

The diffuser consists of:

- 1 fine slitted **EPDM**- or **SILICON**-membrane with implemented lift-control
- 1 PE independent working backflow-preventer (optional)
- 1 PP fibre-glass reinforced supporting plate with R 3/4" i-connection

Slitlength 0,80 mm

Perforation density 11 slits/cm²

Resistance against sewage **EPDM:** domestic and industrial waste water. Excellent resistant to acids and caustic solutions. Not resistant to aliphatics (petrol, mineral oils), aromatics (benzene, toluol) and chlorinate hydrocarbons.

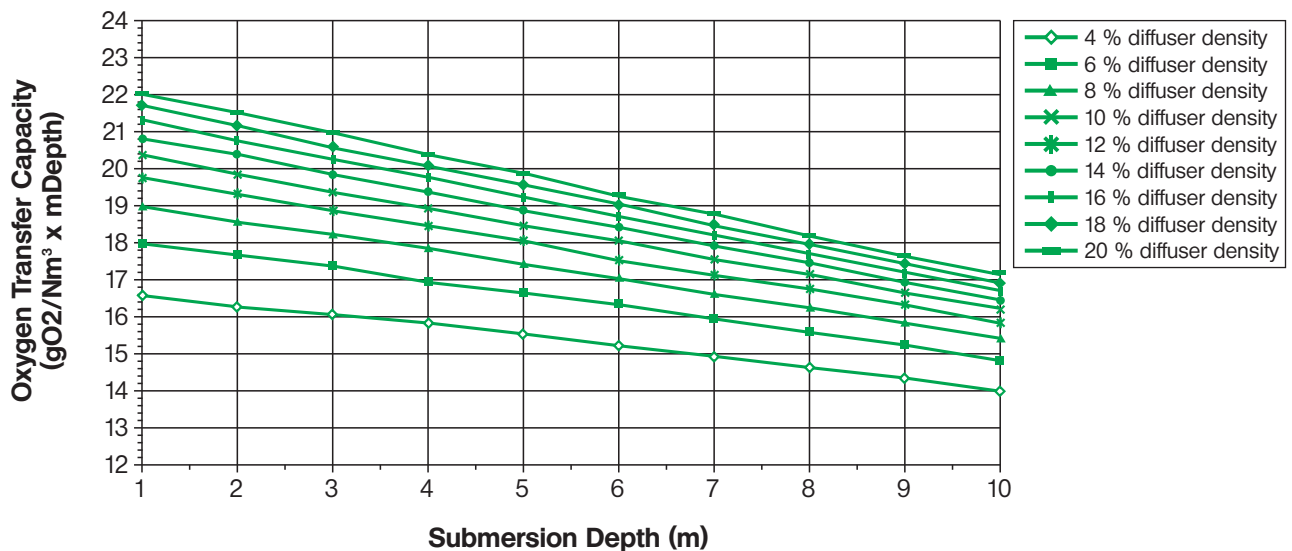
SILICON: the special use of silicone is in waste water with animal and vegetable oils and fats and in oils of aliphatic kind as well as with the demand for heat stability.

Fixing When fixing the disc diffuser on round pipe a welded-on nipple R 3/4" outside thread has to be provided. Mounting the diffuser on square pipe is done by using the Didier easy mount system, then a bore of diam. 35 mm per diffuser is necessary

Recommended air flow: Minimum: 2 Nm³/h x piece, Standard: 6 Nm³/h x piece, Maximum: 10 Nm³/h x piece

The diffusers can be basically switched off, but it is recommendable not to operate the diffuser below the min. air flow, so an entire opening of the perforation can be warranted.

Oxygen transfer capacity (grid arrangement) under Standard Conditions and pressure drop of the diffuser in new shape



The oxygen transfer efficiency depends on the arrangement, the depth of submergency, the diffuser density and the flow rate of the diffusers. The oxygen transfer efficiency can only be warranted after design or checking by Didier Filtertechnik.

