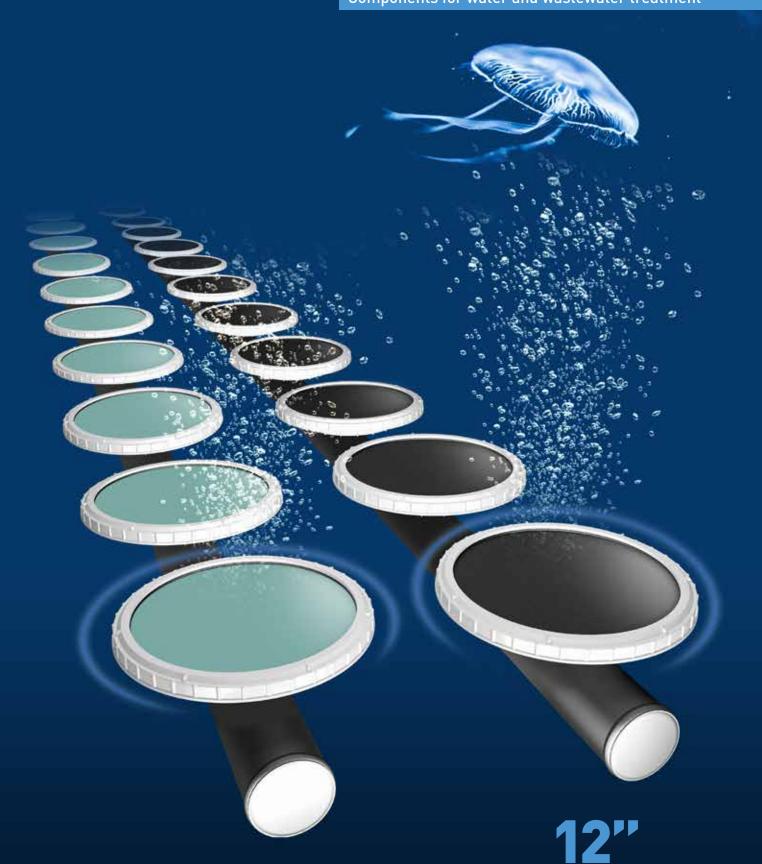


DISC DIFFUSER Ecoflex® Series 12" Silicone/EPDM

Components for water and wastewater treatment



Ecoflex® 12"

PRODUCT PROPERTIES

- low installation costs
- high operational safety
- low maintenance
- low-cost construction
- application: continous
 - intermittent







ECOFLEX® SILICONE DISC DIFFUSER SERIES 12", OPERATING RANGE

Model	Pore size µm	Range flow rate (Nm³/h) min-max	Optimal flow rate (Nm³/h)	Standard connection	Max temperature Celsius/ Fahrenheit	Operating procedure	Application
EC050S	60	2-8	5	1" M	230°C/446°F	continous intermittent	Aeration tank
EC0100S	100	3-10	6	1" M	230°C/446°F	continous intermittent	Aeration tank, anaerobic sludge digestion
EC0150S	150	3-14	8	1" M	230°C/446°F	continous intermittent	Aeration tank, anaerobic sludge digestion

Membrane in NBR, PTFE coated, Plasma treated, available on request

New model EC050S HE model high efficiency with more than 2000 pores on the surface

EC050S HE 60 2-9 5	1" M 230°C/446°F	continous Aeration tank
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Connection 3/4"F, 3/4" M, 1"F or NPT thread, available on request



ECOFLEX® EPDM DISC DIFFUSER SERIES 12", OPERATING RANGE

Model	Pore size µm	Range flow rate (Nm³/h) min-max	Optimal flow rate (Nm³/h)	Standard connection	Max temperature Celsius/ Fahrenheit	Operating procedure	Application
ECO50D	60	2-8	5	1" M	130°C/266°F	continous intermittent	Aeration tank
EC0100D	100	3-10	6 1'' M 130°		130°C/266°F	continous intermittent	Aeration tank, anaerobic sludge digestion
EC0150D	150	3-14	8	1" M	130°C/266°F	continous intermittent	Aeration tank, anaerobic sludge digestion

Membrane in NBR, PTFE. Coated, Plasma treated, are available on request

New model EC050D HE model high efficiency with more than 2000 pores on the surface

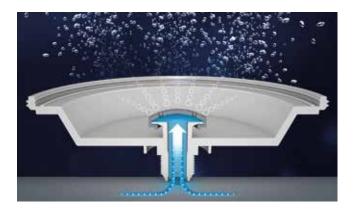
EC050D HE 60 2-9 5	1" M 130°C/266°F	continous Aeration tank
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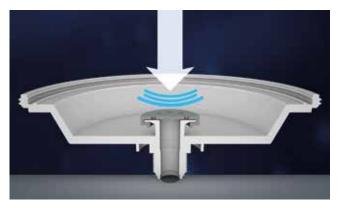
Connection 3/4"F, 3/4" M, 1"F or NPT thread, available on request

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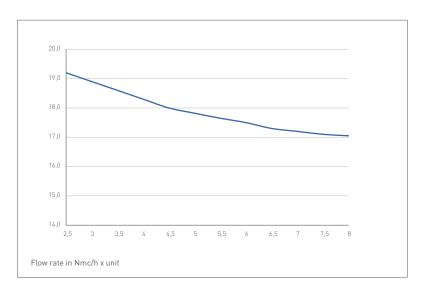
Ecoflex® Silicone/EPDM 12"

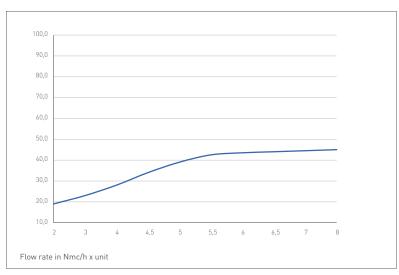
SILICONE_µm





Oscillating non return valve ensures that the non return valve is not blocked with any dirt.





ECOFLEX® ECO5OS DISC DIFFUSER 60 MICRO OXYGEN TRANSFER EFFICIENCY

Oxygen transfer rate 02 in gr / Nmc * m

Data refers to clean tap water normal standard condition at 20°C, 101,3kPa

Evamnla.

Diffuser works with 4,5Nmc/h and waterlevel above diffuser surface is 5 meter, then consider: 18gr/Nmc x m * 4,5Nmc/h * 5m =405gr /h

ECOFLEX® ECO50S DISC DIFFUSER 60 MICRO HEAD LOSS

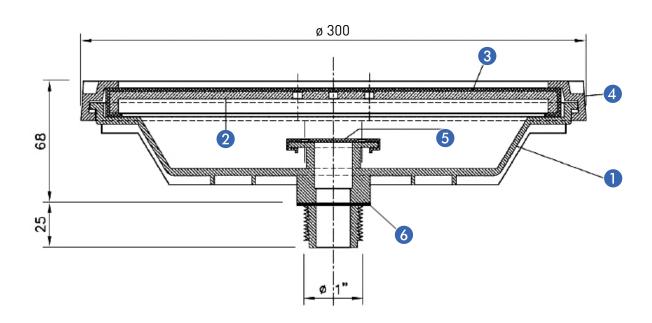
— Head loss in mbar (incl. check valve)

Data refers to clean tap water normal standard condition at 20°C, 101,3kPa

Comparable values can only be obtained with a similar setup and condition. Depending on the tank geometry, slit chart, water depth and planar allocation, the quoted values can change. All the data are based on clean water 20° temperature, 1013mbar / 68°F, 101,3kpa. All data are approximate data!



INSTALLATION DRAWING



MATERIAL OF THE SINGLE COMPONENTS

Number	Description	Material		
1	Diffuser body	Polypropilene, glass fiber reinforced		
2	Innerplate	Polypropilene, glass fiber reinforced		
3	Diffuser membrane	SILICONE / EPDM Brillant! Surface with enhanced non-stick characteristic to reduce encrustations		
4	Retaining ring	Polypropilene, glass fiber reinforced		
5	Non return valve	Silicone		
6	Gasket	EPDM		

DIMENSION

Туре	Height (mm)	Diameter total (mm)	Diameter effective (mm)	Over all height above air distributer (mm)	Perforated area (m²)	Total weight (kg)
Ecoflex [©]	93	300	240	68	0,05	1,1

All data are approximate data!

Ecoflex® Silicone/EPDM 12"

AIR FLOW

The air flow area of Ecoflex® Silicone disc diffusers ranges from 2 to 14 Nm³/(h x unit), depending on the perforation.

The following recommendations for the storage, cleaning, and maintenance of elastomers are based on the international standard DIN 7716.

STORAGE

The diffusers and all accessories must be packed in a condition free from tension, compression and deformation. They must be kept in the original packaging until installation and do not place heavy weights on the packed products. Store in a dry, covered and aerated

room free from sources of heat, humidity and dust. The storage of rubber components up to the installation should not exceed 1 year. Should they be trasported in open receptacles like lattice boxes, the packed products have to be covered for protection against UV radiation.

MAINTENANCE

Diffusers can only be checked while the activated sludge tank is out of work and empty. Therefore conventional cleaning must be done during the process. Formic acid is used very successfully against scale. To keep the pores open, the formic

acid is sprayed into the compressed air for a short time. Also a regular use with maximum air flow for a short time helps keeping the diffusers in good condition for a long time. (Refer to maintenance manual).

MEMBRANE LIFETIME

More than 5 years in municipal waste water treatment plants, depending on wastewater compound and operating method.

Our continuing commitment to quality product, may mean a change without notice of specification, design and other content included in this brochure.



CONTACT

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Azienda con sistema di gestione qualità certificato secondo la Norma ISO9001:2015