

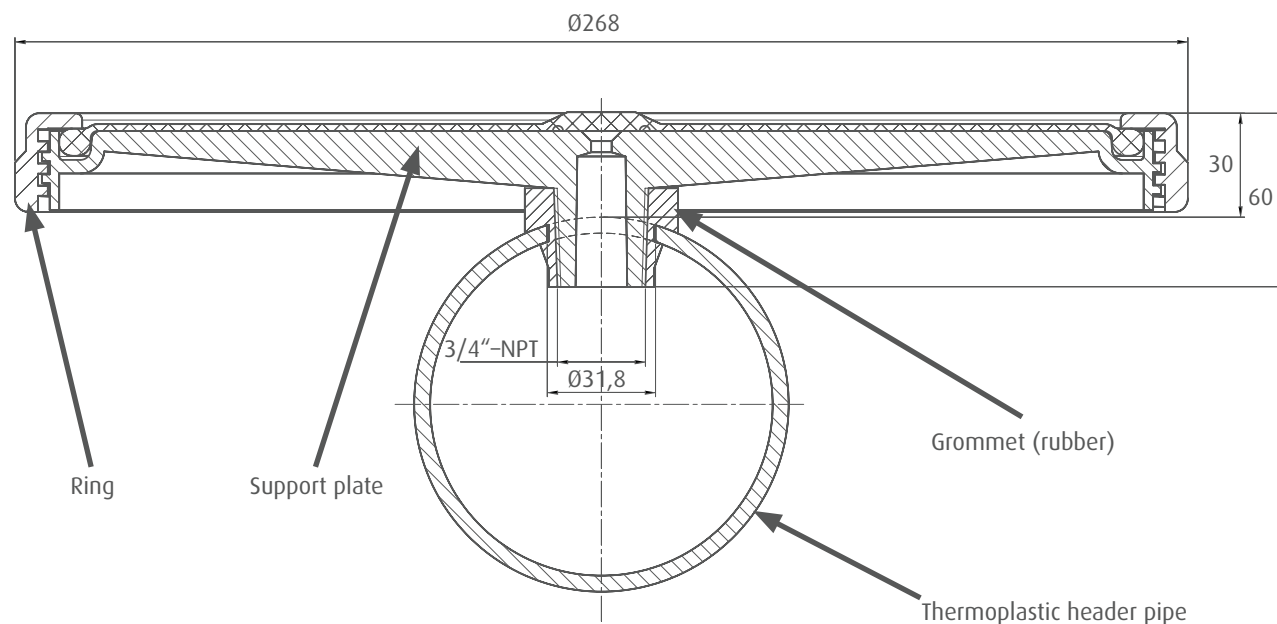


Disc Diffuser Data Sheet - HD 270

F053 J27



Installation drawing



Dimensions

Height	Diameter total/effective	Overall height membrane top of tube	Perforated area	Orifice	Thread	Check valve
[mm]	[mm]	[mm]	[m ²]	[mm]		
60	268/218	30	0,037	6	R 3/4"	On request.

Air flow

Air flow rates at standard operation conditions	max overload/maintenance air flow rate	Operating temperature	Operation mode	Application
[m _N ³ /h]	[m _N ³ /h]	[°C]		
1,5 – 7	10	0 – 80	intermittent continuous	municipal waste water

- Shutdown of operation is highly recommended for air flow rates lower than minimum rate.
- Overload air flow rate (e.g. cleaning) should not be applied longer than 10 min/day.

Connectors to header pipe

Type	Permitted wall thickness of header tube	Diameter of straight-drilled hole	Material	Colour
	[mm]	[mm]		
Grommet 4,7 Grommet 6,3 Universal Saddle PVC-Saddle 90 mm PVC-Saddle 110 mm	4,7 6,3 2 – 8	31,8 (1 1/4") 31,8 (1 1/4") 31,8 (1 1/4") 35 35	EPDM 75 Sh A EPDM 75 Sh A EPDM 75 Sh A PVC PVC	Black Black Black White/Black White/Black

Membrane material

Type Colour		F053 EPDM Black
Polymer Carbon black Plasticiser Others		33 % 31 % 33 % 3 %
Density Tensile strength Elongation at break Tear strength Hardness Tension set	DIN 53479 DIN 53504 DIN 53504 DIN 53507 DIN 53505 100% Elongation 24 h, RT	1,08 ± 0,03 g/cm ³ > 10 N/mm ² > 400% > 7 N/mm 53 ± 5 Shore A < 5%
Ozone resistance	DIN 53509	zero cracks

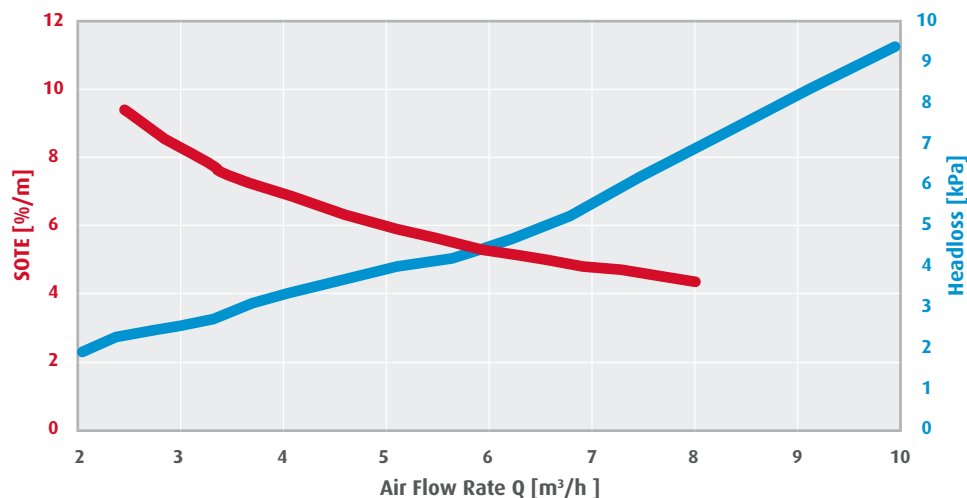
Support plate material

Material	Colour	Additional colours	Logo
PP GF 30	Black	On request.	On request.

Shipping unit

Shipping unit	Dimensions L x W x H	Unit weight	Unit per pallet	Pallet size	Pallet weight
	[mm]	[kg]		[mm]	[kg]
25 pcs./ cardboard	590 x 400 x 360	approx 17	2, 4, 6	max 800 x 600 x 1200	max 117
25 pcs./ cardboard	590 x 400 x 360	approx 17	4, 8, 12, 16	max 1200 x 800 x 1550	max 287

Standard oxygen transfer efficiency (SOTE) and headloss



Water depth	4,50 m
Submergence depth	4,20 m
Atmospheric pressure	1.013 hPa
Water temperature	16,3 °C

Test media	tap water
Test tank	bubble column
Tank volume	5,09 m³
Reservoir area	1,13 m²
C _{ss,T}	9,81 mg/l

Test conditions SOTE acc. to German Standard ATV-M 209 (desorption method) Certificate ISAH, University Hanover, measuring tolerance +/- 1% Headloss internal tests tolerances +/- 5%

Storage:

- Diffuser and/or rubber sleeves must be stored factory-packed in a dark, dry, ventilated and dust-free storage space according to DIN 7716. Avoid frost, heat, UV/radiation, dust and working which can cause damage of diffuser and/or packing.
- Do not store outdoors! The storage of rubber parts until installation/starting operation should not exceed one year. At on-site delivery, all rubber and plastic parts must be stored in their original packaging. Crates exposed to direct sunlight must be covered with tarpaulin to protect against UV-radiation.

Maintenance:

Diffusers can only be checked, if the activated sludge tank is out of work and empty. That is why normal cleaning must be done at work. Formic acid is used very successfully against carbonating. To keep the pores open, 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 keep the diffuser in good conditions for a long time. (refer to Maintenance Manual)

Membrane lifetime:

Lifetime is depending on waste water influent, plant design, operation conditions and preventive maintenance measures. Reference plants have achieved more than 5 year in municipal waste water. Please refer to our standard warranty terms and conditions which can be downloaded from our website.

Disclaimer: This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Condition of Sale.

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