



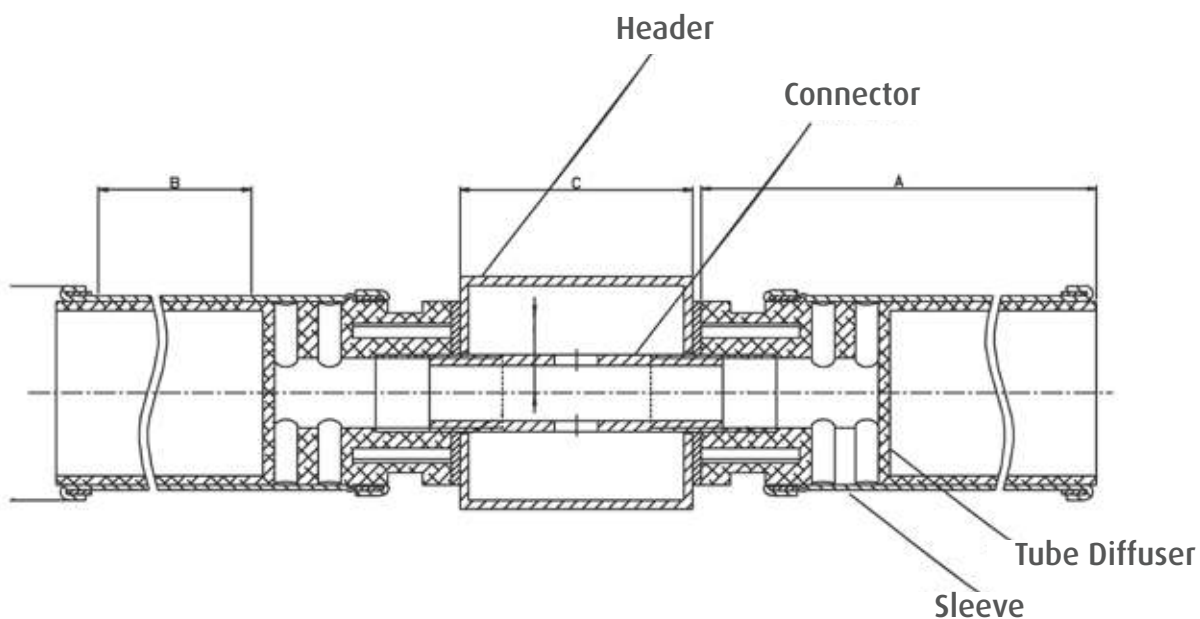
Data Sheet

JetFlex[®] Tube Diffuser - TD 63

EPDMperformance J34



Installation drawing



Dimensions

Type	Perforation length (B)	Total length (A)	Tube diameter	ID-Sleeve	Wall thickness	Perforated area	Total weight
	[mm]	[mm]	[mm]	[mm]	[mm]	[m ²]	[kg]
TD 63/2100	1000	1060	63	64 - 66	1,9 ±0,15	0,18	1,3
TD 63/2075	750	810	63	64 - 66	1,9 ±0,15	0,135	1,1
TD 63/2050	500	560	63	64 - 66	1,9 ±0,15	0,09	0,8

Air flow

Type	Air flow rate at standard operation conditions	max overload/maintenance air flow rate	Operating temperature	Operation mode	Application
	[m _N ³ /h]	[m _N ³ /h]	[°C]		
TD 63/2100	3 - 12	20	0 - 80	intermittent continuous	municipal waste water
TD 63/2075	2 - 9	15	0 - 80	intermittent continuous	municipal waste water
TD 63/2050	1 - 6	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.
- Numbers are for guidance only. Operating diffusers at too high or too low an airflow rate may reduce lifetime or performance. See Technical Report 'Slit size for aeration membranes' for details.

Dimensions for threads and connector

Connector	Colour code	Connector length square tube 80 x 80 mm [C]	Connector length square tube 100 x 100 mm [C]	Hole diameter for connector
		[mm]	[mm]	[mm]
1" Whitworth	blue	130	150	35 +/- 1
3/4" Whitworth	green	130	150	28 +/- 1
3/4" NPT (for TD 63/2050 only)	grey	-	-	-

Membrane material

Type		EPDM performance J34
Colour		Black
Polymer		33 %
Carbon black		20 %
Plasticiser		35 %
Others		12 %
Density	DIN EN ISO 1183-1:2004	1,09 ±0,03 g/cm ³
Tensile strength	DIN 53504	> 6,0 MPa
Elongation at break	DIN 53504	> 400%
Tear strength	DIN EN ISO 34-1:2004	> 6 N/mm
Hardness	DIN 53505; ASTM D2240	40 ± 5 Shore A
Tension set	DIN ISO 2285:2003-07	< 7%
	100% Elongation; 24 h, RT	

Materials

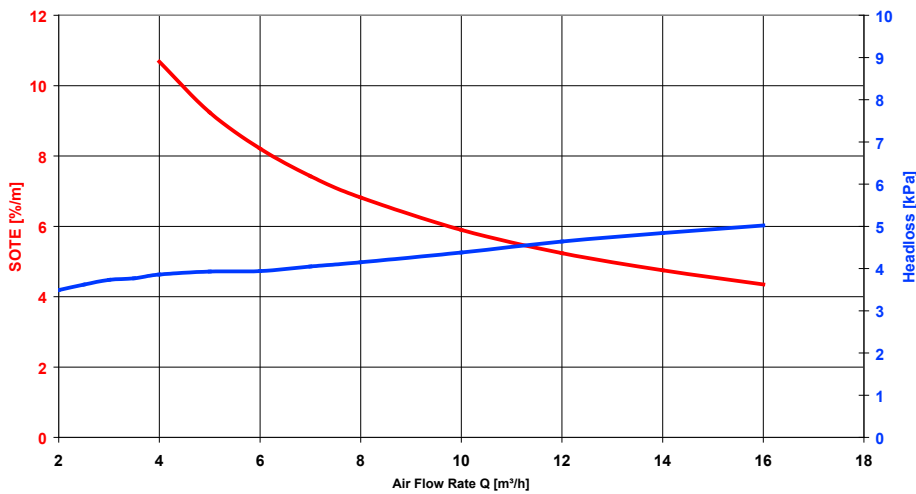
Material Sleeve	Material Tube	Material Diffuser Head	Clamp	Gasket	Connector
EPDM	PP	PP GF 30	V2A (Stainless Steel 1.4301)	4 mm EPDM (Others on request)	V2A (1.4301) SS 304

Shipping unit

Type	Shipping unit	Dimensions L x W x H	Unit weight	Unit per pallet	Pallet size	Pallet weight
		[mm]	[kg]		[mm]	[kg]
TD 63/2100	66 pcs.	1170 x 780 x 420	90	3	max 1200 x 800 x 1400	283
TD 63/2075	45 pcs.	840 x 630 x 360	52	2, 4, 6	max 1280 x 840 x 1250	max 327
TD 63/2075	45 pcs.	840 x 630 x 360	52	1, 2	max 840 x 640 x 850	max 119
TD 63/2050	60 pcs.	840 x 630 x 360	50	2, 4, 6	max 1280 x 840 x 1250	max 315
TD 63/2050	60 pcs.	840 x 630 x 360	50	1, 2	max 840 x 640 x 850	max 115



Standard oxygen transfer efficiency (SOTE) and headloss for TD 63 EPDM performance J34 1000 mm



Water depth	4,50 m
Submergence depth	4,20 m
Atmospheric pressure	1.013 hPa
Water temperature	19,7 °C

Test media	tap water
Test tank	bubble column
Tank volume	5,09 m³
Tank floor area	1,13 m²
$C_{SS,T}$	11,01 mg/l

Test conditions SOTE acc. to German Standard DWA 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:

More than 5 years in municipal waste water treatment plants, depending on waste water influent and operation condition.

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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