

TUBE DIFFUSER Tuboflex® Silicone

Components for water and wastewater treatment



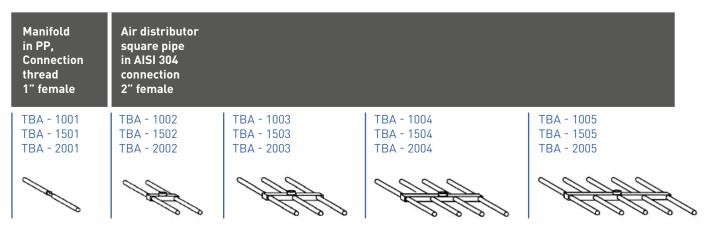
PRODUCT PROPERTIES



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

TUBOFLEX[®] TUBE DIFFUSER, OPERATING RANGE

Model	Pore size µm	Range flow rate (Nm³/h x ml) min-max	Optimal flow rate (Nm³/h x ml)	Thread connection Standard (1" and other up request)	Max temperature Celsius/ Fahrenheit	Operating procedure	Application
TBA500-50S	60	3-12	7	3/4"F	230°C/446°F	continuous intermittent	Aeration tank
TBA500-100S	100	5-18	11	3/4"F	230°C/446°F	continuous intermittent	Aeration tank, Anaerobic sludge digestion
TBA500-150S	150	7-25	15	3/4"F	230°C/446°F	continuous intermittent	Anaerobic sludge digestion

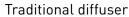


Data are based on clean water 20°C temperature, 1013mbar / 68°F, 101,3kpa. All data are approximate data!

Tuboflex® Silicone



2 bigger air gaps makes airflow easier with result of low head los



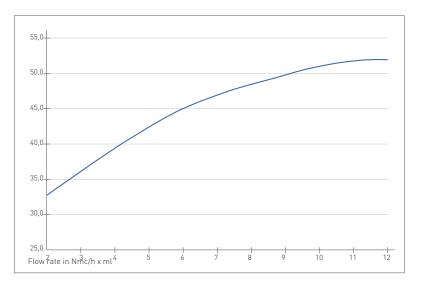


small airgap makes airflow difficult and increases head los



 Oxygen transfer rate O2 in gr / Nmc * m submersion

Data are referd to in clean tap water standard condition at 20°C, 101,3kPa



8

TUBOFLEX[©] TBAS TUBE DIFFUSER 60 MICRO HEAD LOSS

—— Head loss in mbar

Data are referd to in clean tap water standard condition at 20°C, 101,3kPa

Comparable values can only be optained 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!

12

10

11

18,0 -

17,0 16,0

15,0

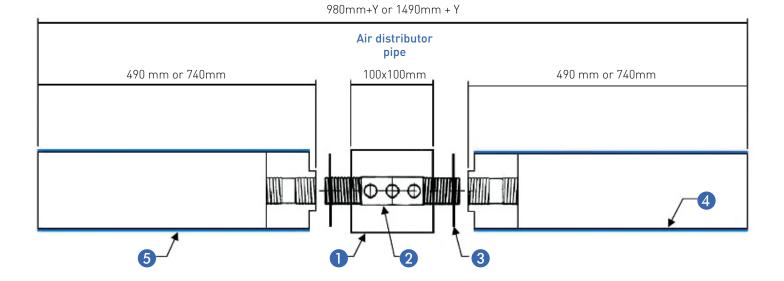
14,0

13,0 12,0 11,0 10,0

Flow rate in Nmc/h x ml



INSTALLATION DRAWING



MATERIAL OF THE SINGLE COMPONENTS

Number	Description	Material		
1	Air distributor square pipe Y x Y	V4A material: 1.4571		
2	Double nipple with ¾ external thread	V4A material: 1.4571		
3	Gasket	EPDM		
4	Support tube	PE		
5	Membrane	Silicone		

TUBOFLEX[®] TUBE DIFFUSER, DIMENSIONS

Туре	Perforation lenght [mm]	Total lenght [mm]	Tube diameter [mm]	Pipe thickness [mm]	Perforated area [m²]	Total weight [kg]
TBA500	450	490	63	4,7	0,09	0,8
TBA750	700	740	63	4,7	0,14	1,1
TBA1000	1000	1025	63	4,7	0,19	1,4

All data are approximate data!

5

Tuboflex® Silicone

AIR FLOW The optimal air flow area of tube diffusers Tuboflex® Silicone ranges from 3 to 25 Nm³/h x ml, depending on the perforation.

STORAGE

Diffuser and/or rubber sleeves must be stored factory-packed in a dark, dry, ventilated and dustfree 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 onsite 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, 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, 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 diffuser 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 waste water 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.

7



CONTACT

Geoteck-Tierre S.R.L. Phone +39 035 810296 TeleFax + 39 035 810296 email: info@geotierre.com Address: Via Prato Pieve 54, 24060 Casazza (BG) ITALY

Certified ISO9001:2015

Geoteck-Tierre SRL Via Prato Pieve 54 24060 Casazza (BG) Italy



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

geotierre.com