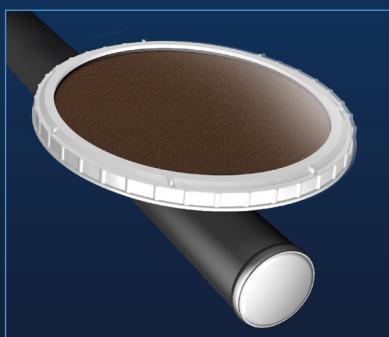
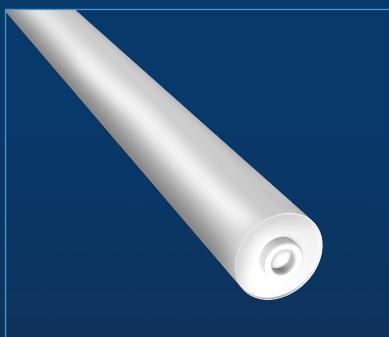
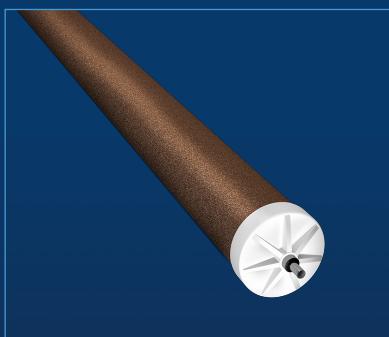
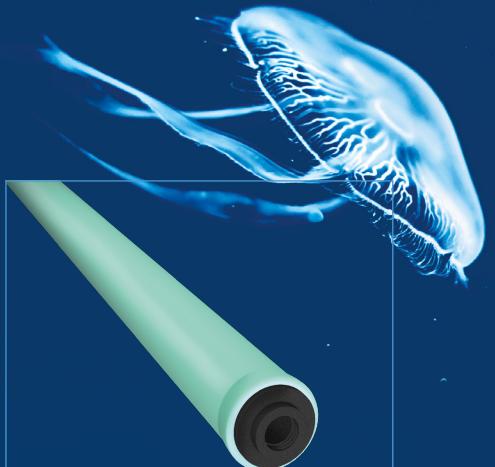
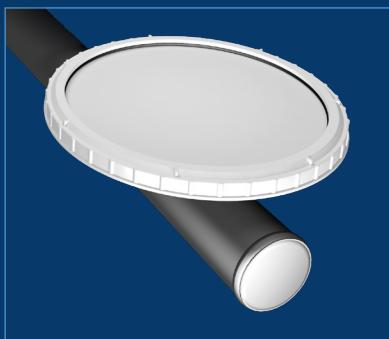


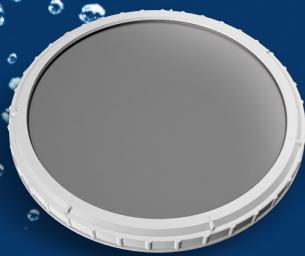


**GeoTierre**  
*Protecting the source of life*

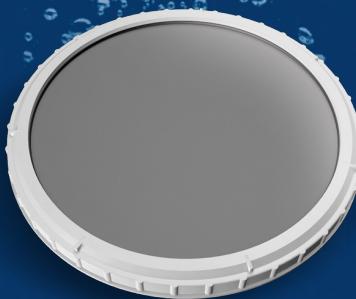
## Aeration products brochure



# Ecoflex®



**XS9"**



**12"**



**XL14"**



**EPDM**



## 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
ECO100D	100	3-10	6	1" M	130°C/266°F	continous intermittent	Aeration tank, anaerobic sludge digestion
ECO150D	150	3-14	8	1" M	130°C/266°F	continous intermittent	Aeration tank, anaerobic sludge digestion
<b>Membrane in NBR, PTFE Coated, Plasma treated, are available on request</b>							
ECO50D HE	60	2-9	5	1" M	130°C/266°F	continous intermittent	Aeration tank

### DIMENSION

Type	Total 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

Connection 3/4"F, 3/4"M, 1"F or NPT thread, available on request



## 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
ECO50S	60	2-8	5	1" M	230°C/446°F	continous intermittent	Aeration tank
ECO100S	100	3-10	6	1" M	230°C/446°F	continous intermittent	Aeration tank, anaerobic sludge digestion
ECO150S	150	3-14	8	1" M	230°C/446°F	continous intermittent	Aeration tank, anaerobic sludge digestion
<b>Membrane in NBR, PTFE coated, Plasma treated, available on request</b>							
ECO50S HE	60	2-9	5	1" M	230°C/446°F	continous intermittent	Aeration tank

### DIMENSION

Type	Total 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

Connection 3/4"F, 3/4"M, 1"F or NPT thread, available on request

# ECOFLEX<sup>®</sup>



## ECOFLEX<sup>®</sup> XS EXTRA SMART SERIES 9" EPDM OPERATING RANGE

Model	Pore size µm	Range flow rate (Nm <sup>3</sup> /h) min-max	Optimal flow rate (Nm <sup>3</sup> /h)	Standard connection	Max temperature Celsius/Fahrenheit	Operating procedure	Application
ECOXS50D	60	1-7	4	3/4" M	130°C / 266° F	continous intermittent	Aeration tank
ECOXS100D	100	1,5-8	6	3/4" M	130°C / 266° F	continous intermittent	Aeration tank, anaerobic sludge digestion
ECOXS150D	150	1,8-10	8	3/4" M	130°C / 266° F	continous intermittent	Aeration tank, anaerobic sludge digestion

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

## DIMENSION

Type	Total height (mm)	Diameter total (mm)	Diameter effective (mm)	Over all height above air distributer (mm)	Perforated area (m <sup>2</sup> )	Total weight (kg)
Ecoflex <sup>®</sup> XS	93	240	200	68	0,03	0,7

Connection 3/4F, 1" M, 1" F or NPT thread, available on request



## ECOFLEX<sup>®</sup> XS EXTRA SMART SERIES 9" SILICONE OPERATING RANGE

Model	Pore size µm	Range flow rate (Nm <sup>3</sup> /h) min-max	Optimal flow rate (Nm <sup>3</sup> /h)	Standard connection	Max temperature Celsius/Fahrenheit	Operating procedure	Application
ECOXS50S	60	1-7	4	3/4" M	230°C / 446° F	continous intermittent	Aeration tank
ECOXS100S	100	1,5-8	6	3/4" M	230°C / 446° F	continous intermittent	Aeration tank, anaerobic sludge digestion
ECOXS150S	150	1,8-10	8	3/4" M	230°C / 446° F	continous intermittent	Aeration tank, anaerobic sludge digestion

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

## DIMENSION

Type	Total height (mm)	Diameter total (mm)	Diameter effective (mm)	Over all height above air distributer (mm)	Perforated area (m <sup>2</sup> )	Total weight (kg)
Ecoflex <sup>®</sup> XS	93	240	200	68	0,03	0,7

Connection 3/4F, 1" M, 1" F or NPT thread, available on request



## ECOFLEX® XL EXTRA LARGE DISC DIFFUSER SERIES 14" EPDM 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
ECOXL50D	60	3-15	9	1" M	130°C / 266° F	continous intermittent	Aeration tank
ECOXL100D	100	4-18	10	1" M	130°C / 266° F	continous intermittent	Aeration tank, anaerobic sludge digestion
ECOXL150D	150	4,5-22	12	1" M	130°C / 266° F	continous intermittent	Aeration tank, anaerobic sludge digestion

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

### DIMENSION

Type	Total height (mm)	Diameter total (mm)	Diameter effective (mm)	Over all height above air distributer (mm)	Perforated area (m²)	Total weight (kg)
Ecoflex® XL	93	360	310	68	0,075	1,6

Connection 3/4F, 3/4" M, 1" F or NPT thread, available on request



## ECOFLEX® XL EXTRA LARGE DISC DIFFUSER SERIES 14" SILICONE 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
ECOXL50S	60	3-15	9	1" M	230°C / 446° F	continous intermittent	Aeration tank
ECOXL100S	100	4-18	10	1" M	230°C / 446° F	continous intermittent	Aeration tank, anaerobic sludge digestion
ECOXL150S	150	4,5-22	12	1" M	230°C / 446° F	continous intermittent	Aeration tank, anaerobic sludge digestion

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

### DIMENSION

Type	Total height (mm)	Diameter total (mm)	Diameter effective (mm)	Over all height above air distributer (mm)	Perforated area (m²)	Total weight (kg)
Ecoflex® XL	93	360	310	68	0,075	1,6

Connection 3/4F, 3/4" M, 1" F or NPT thread, available on request

# Newair®



**XS9"**



**12"**



**XL14"**



## NEWAIR® XS EXTRA SMART SERIES 9" SPECIAL HDPE OPERATING RANGE

Model	Pore size µm	Range flow rate (Nm <sup>3</sup> /h) min-max	Optimal flow rate (Nm <sup>3</sup> /h)	Standard connection	Max temperature Celsius/Fahrenheit	Operating procedure	Application
NWD XS9"	fine	1,5 - 8	4	3/4" M	80°C / 176° F	continuous intermittent	Aeration tank

## DIMENSION

Type	Total height (mm)	Diameter total (mm)	Diameter effective (mm)	Over all height above air distributer (mm)	Perforated area (m <sup>2</sup> )	Total weight (kg)
11mm	93	240	193	68	0,03	0,8

Connection 3/4F, 1" M, 1" F or NPT thread, available on request



## NEWAIR® DISC DIFFUSER SERIES 12"

### OPERATING RANGE

Model	Pore size variable	Range flow rate (Nm³/h) min-max	Optimal flow rate (Nm³/h)	Standard connection	Max temperature Celsius/Fahrenheit	Operating procedure	Application
NWD280	fine	4-12	6	1" M	80°C/176°F	continuous intermittent	Aeration tank

### DIMENSION

Type	Total height (mm)	Diameter total [mm]	Diameter effective [mm]	Over all height above air distributer [mm]	Perforated area [m²]	Fixed porous membrane	Total weight [kg]
11 mm	93	300	240	68	0,05	HDPE	1,35

Connection 3/4F, 1" M, 1" F or NPT thread, available on request



## NEWAIR® XS EXTRA LARGE SERIES 14" DISC DIFFUSER SPECIAL HDPE

### OPERATING RANGE

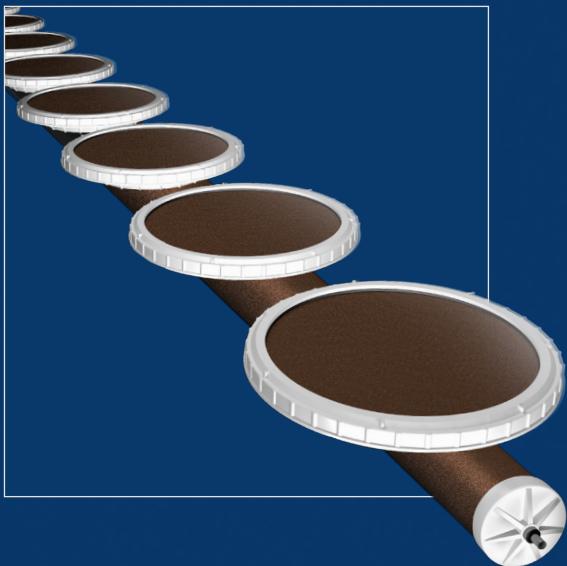
Model	Pore size µm	Range flow rate (Nm³/h) min-max	Optimal flow rate (Nm³/h)	Standard connection	Max temperature Celsius/Fahrenheit	Operating procedure	Application
NWD XL14"	fine	5 - 18	10	1" M	80°C / 176° F	continuous intermittent	Aeration tank

### DIMENSION

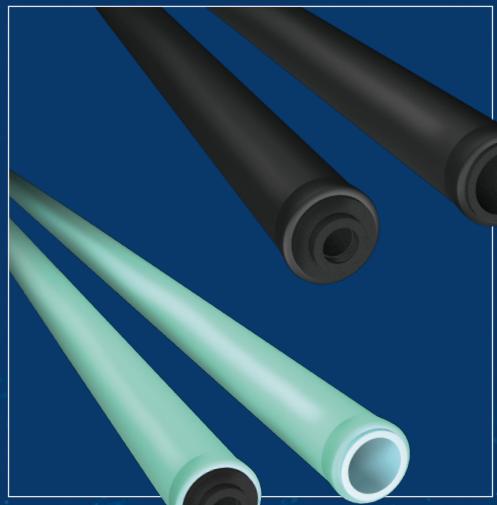
Type	Total height (mm)	Diameter total (mm)	Diameter effective (mm)	Over all height above air distributer (mm)	Perforated area (m²)	Total weight (kg)
11mm	93	360	310	68	0,075	1,7

Connection 3/4F, 3/4" M, 1" F or NPT thread, available on request

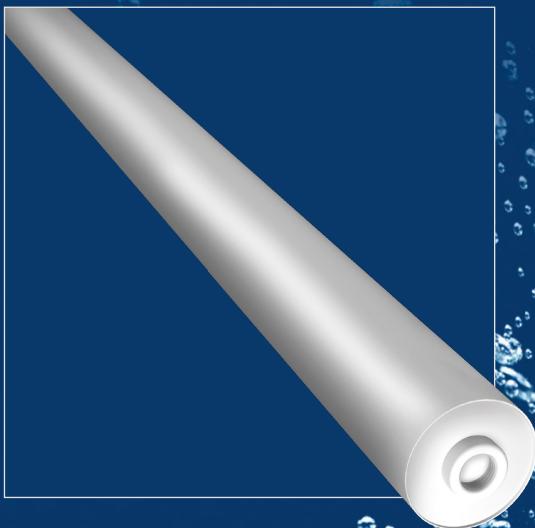
**Ecoquarz®**



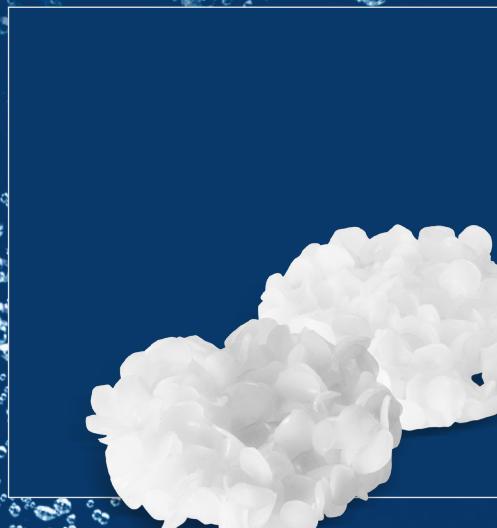
**Tuboflex®**



**Newair®**



**Newpond®**





## ECOQUARZ<sup>®</sup> DISC DIFFUSER SERIES, OPERATING RANGE

Model	Pore size µm	Range flow rate (Nm <sup>3</sup> /h) min-max	Optimal flow rate (Nm <sup>3</sup> /h)	Standard Thread connection (1" female or other up on request)	Max temperature Celsius/Fahrenheit	Operating procedure	Application
ECO250-50	60	3-10	6	1" M	80°C/176°F	continous	Aeration tank
ECO250-100	100	5-12	8	1" M	80°C/176°F	continous	Aeration tank
ECO250-250	250	7-15	11	1" M	80°C/176°F	continous	Grid chamber tank

## DIMENSIONS

Type	Total height [mm]	Diameter total [mm]	Diameter effective [mm]	Over all height above air distributer [mm]	Perforated area [m <sup>2</sup> ]	Total weight [kg]
Ecoquarz Disc	93	300	240	68	0,05	1,5

## ECOQUARZ<sup>®</sup> TUBE DIFFUSER, OPERATING RANGE

Model	Pore size µm	Range flow rate (Nm <sup>3</sup> /h x ml) min-max	Optimal flow rate (Nm <sup>3</sup> /h x ml)	Assembling mode	Max temperature Celsius/Fahrenheit	Operating procedure	Application
ECO500-50	60	5-18	11	Tie rod	80°C/176°F	continous	Aeration tank
ECO500-100	100	10-25	17	Tie rod	80°C/176°F	continous	Aeration tank
ECO500-250	250	15-30	22	Tie rod	80°C/176°F	continous	Grid chamber tank

## DIMENSIONS

Type	Perforation length [mm]	Total length [mm]	Tube diameter [mm]	Wall thickness [mm]	Perforated area [m <sup>2</sup> ]	Total weight [kg]
ECO-501	2 x 250	630	70	15	0,11	4,9
ECO-1001	2 x 500	1130	70	15	0,22	5,7
ECO-1501	2 x 750	1630	70	15	0,33	6,4

# TUBOFLEX®



## TUBOFLEX® EPDM TUBE DIFFUSER, OPERATING RANGE

Model	Pore size µm	Range flow rate (Nm³/h x ml) min-max	Optimal flow rate (Nm³/h x ml)	Standard Thread connection (1" and other up)	Max temperature Celsius/Fahrenheit	Operating procedure	Application
TBA500D50	60	3-12	7	3/4''F	130°C/266°F	continuous intermittent	Aeration tank
TBA500D100	100	5-18	11	3/4''F	130°C/266°F	continuous intermittent	Aeration tank, Anaerobic sludge digestion
TBA500D150	150	7-25	15	3/4''F	130°C/266°F	continuous intermittent	Anaerobic sludge digestion

## DIMENSIONS

Type	Perforating lenght [mm]	Total lenght [mm]	Tube diameter [mm]	Pipe thickness [mm]	Perforated area [m²]	Total weight [kg]
TBA500	500	550	63	4,7	0,095	0,85
TBA750	750	800	63	4,7	0,146	1,15
TBA1000	1000	1050	63	4,7	0,195	1,4



## TUBOFLEX® SILICONE TUBE DIFFUSER, OPERATING RANGE

Model	Pore size µm	Range flow rate (Nm³/h x ml) min-max	Optimal flow rate (Nm³/h x ml)	Standard Thread connection (1" and other up request)	Max temperature Celsius/Fahrenheit	Operating procedure	Application
TBA500S50	60	3-12	7	3/4''F	230°C/446°F	continuous intermittent	Aeration tank
TBA500S100	100	5-18	11	3/4''F	230°C/446°F	continuous intermittent	Aeration tank, Anaerobic sludge digestion
TBA500S150	150	7-25	15	3/4''F	230°C/446°F	continuous intermittent	Anaerobic sludge digestion

## DIMENSIONS

Type	Perforation lenght [mm]	Total lenght [mm]	Tube diameter [mm]	Pipe thickness [mm]	Perforated area [m²]	Total weight [kg]
TBA500	500	550	63	4,7	0,095	0,85
TBA750	750	800	63	4,7	0,145	1,15
TBA1000	1000	1050	63	4,7	0,195	1,45



### NEWAIR® TUBE DIFFUSER, OPERATING RANGE

Model	Pore size variable	Range flow rate (Nm³/h x ml) min-max	Optimal flow rate (Nm³/h x ml)	Standard Thread connection (3/4" female other up on request)	Max temperature Celsius/Fahrenheit	Operating procedure	Application
NWA500	fine	6-12	8	3/4''F	80°C/176°F	continuous intermittent	Aeration tank
NWA750	fine	6-12	8	3/4''F	80°C/176°F	continuous intermittent	Aeration tank
NWA1000	fine	6-12	8	3/4''F	80°C/176°F	continuous intermittent	Aeration tank

### STANDARD DIMENSIONS

Aerator length [mm]	Total length [mm]	Tube diameter [mm]	Aeration area [m²]	Adapter	Total weight [g]
500	580	72	0,11	¾ female thread	570
750	830	72	0,17	¾ female thread	760
1000	1080	72	0,23	¾ female thread	950

### SPECIAL DIMENSIONS

Possible lengths	100 - 1000 mm
Possible adapter forms	½ , ¾ , 1 , 1 ¼, 2" female thread and on request

### NEWPOND® BACTERIA CARRIER MATERIAL

Material	special HDPE
Diameter	20 or 55 mm
specific Surface	500 m²/m³
Bulk density	200 g/l
Material density	0.95 kg/l
Max. Temperature	80 °C

All data are approximate data!

### Product properties

- large usable surface
- high efficiency
- low abrasion of adherent bacteria due to the stream
- easy cleaning and simple handling
- resistant and pH-neutral
- high chemical resistance





■ ■ **Geotierre** was founded in Bergamo (Italy) in 2007 to produce and develop hi-tech plastic components. With the acquisition of Tierre Srl in 2013, the company entered the wastewater treatment market with the development and manufacturing of micro bubble disc and tube diffusers and has since become a leading manufacturer of wastewater treatment products for our prestigious clients. ■ ■

## CONTACT

### Geoteck-Tierre S.R.L.

Phone +39 035 810296

TeleFax + 39 035 810296

email: [info@geotierre.com](mailto: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](http://geotierre.com)