

TUBE DIFFUSER Newair® HDPE

Components for water and wastewater treatment

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PRODUCT PROPERTIES

- energy-saving
- low head loss
- high air flow
- high oxygen transfer
- break-proofeasy to install
- very good chemical resistance
- abilities of operation: continuous
- KTW-approval (can be uses for drinking water)

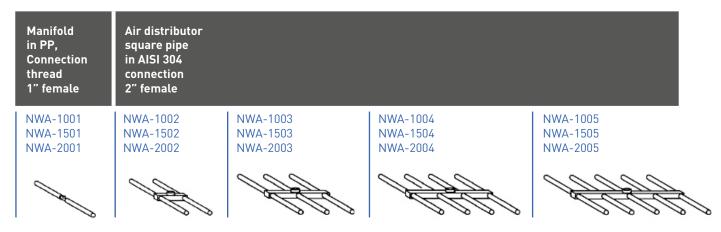
• applications:

- municipal waste water
- industrial waste water
- general aeration feedings



NEWAIR[®] TUBE DIFFUSER, OPERATING RANGE

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

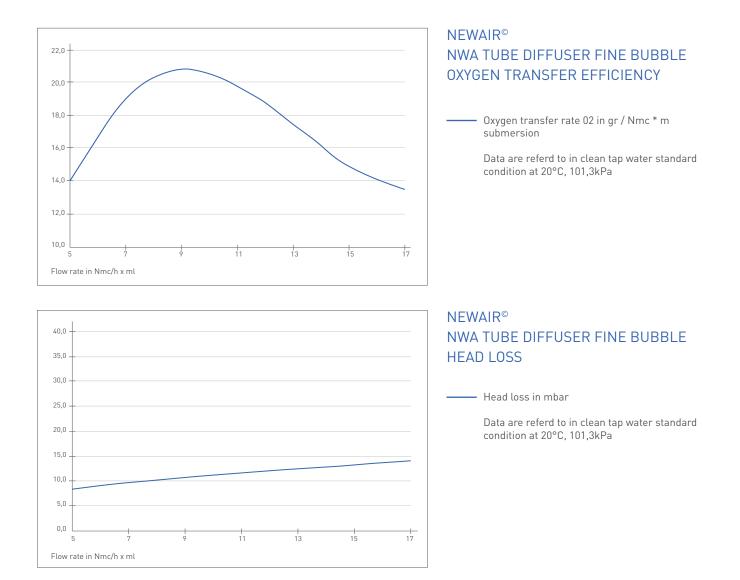


Data are based on clean water 20°C temperature, 1013mbar / 68°F, 101,3kpa. All data are approximate data!

Newair® HDPE



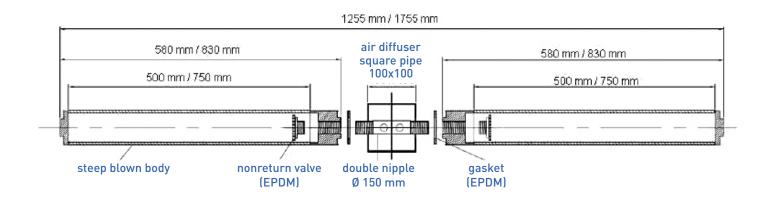
Oscillating non return valve, makes sure that the non return valve can not be blocked from any dirty.



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!



INSTALLATION DRAWING



PRODUCT PROPERTIES

| Number | HDPE | | |
|--------------------------|--------------------------------------|--|--|
| Colour | white | | |
| Wall thickness | 5,2 mm | | |
| Density | 0,97 g/cm ² | | |
| Chemical resistance | high | | |
| Pore size at the inside | 350 µm | | |
| Pore size at the outside | 120 µm | | |
| Operating temperature | 0 - 80°C | | |
| Application | municipal and industrial waste water | | |

STANDARD DIMENSIONS

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

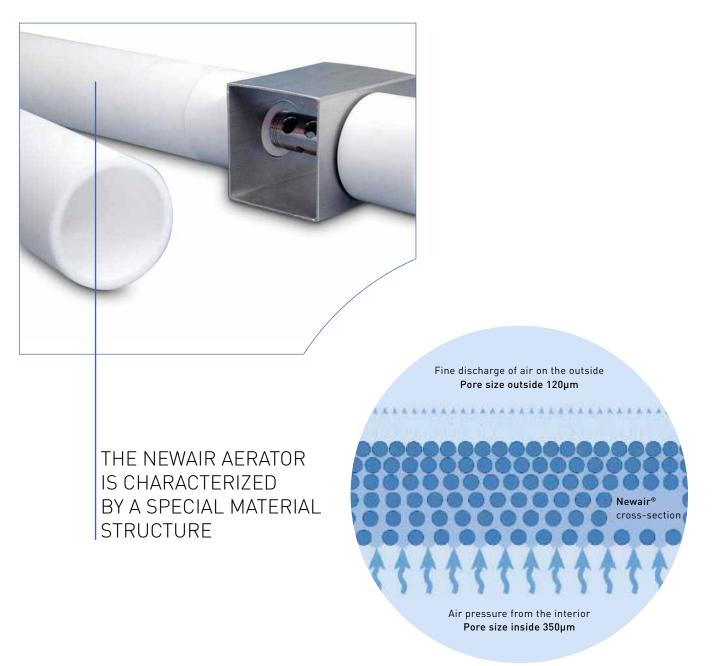
SPECIAL DIMENSIONS

| Possible lengths | 100 1000 mm | | |
|------------------------|--|--|--|
| Possible adapter forms | $^{1\!/_2}$, $^{3\!/_4}$, 1 , 1 $^{1\!/_4}$ internal thread and on request | | |

All data are approximate data!

Newair® HDPE

FUNCTION CHART OF THE PORE STRUCTURE



The newair aerator is characterized by a special material structure. The size of the pores reducing in flow direction. On the one hand there will be created a huge upstream flow area for the air, on the other hand there will be reached a fine allocation of the bubbles by a small pore size on the outlet side.

GeoTierre Protecting the source of life

AIR FLOW

The **optimum air flow** for the Newair[®] tube diffuser is 6-12 Nm³/(h x ml). If the air flow rate falls below the optimum range for a longer period of time (approx. 24 hrs.), the flushing of the aerator elements with an air flow rate of 30 Nm³/(h x ml) is recommended.

STORAGE

The aerators must be stored in their original packing in a dry room. During storage the aerators must be protected from damage caused by ambient conditions (heat, painting, etc.). The aerators and accessories should be installed and put into operation within the usual periods of time (max. 1 year).

MAINTENANCE

Newair[®] aerators require only a little service, but they are not maintenance-free. The functioning of the aerators depends on the discharge of air from the porous structure of the aerators. Therefore the structure should be free from sediments and incrustation because these affect or can even prevent the discharge process. As a rule, waste water contains substances

LIFETIME

The precondition for a long lifetime is that the aerators are used in communal waste water. The composition of existing trade and industrial effluents must comply with the regulations laid down in the latest version of

SERVICE

It is in your interest to perform regular controls of the aerator system by using the types of maintenance mentioned above. They help to prolong the lifetime of the aerators.

If necessary, you can send aerators to the

which can cause the formation of sediments, such as carbonates (water hardness), ferric and aluminium salts (precipitants), biological growth, polymers.

For a trouble-free operation it is recommended to dose precipitants and other auxiliary agents with the objective of making sparing use of those according to the technical regulations.

working sheet ATV A 115.

If the discharge of industrial effluents exceeds a proportion of 20 %, the manufacturer has to be consulted. In addition, the assembly and operating instructions must be adhered to.

manufacturer in order to obtain an analysis of the condition of the aerators (charge according to time involved). The aerators sent in for this purpose should be rinsed, but not cleaned with a pressure washer.



CONTACT

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