

### Membrane materials

EPDM for most residential wastewater applications.

Silicone for high temperature applications and municipal treatment plants with high load of industrial waste.

### Body materials

Glass fiber reinforced polypropylene body, ring and mount is available for maximum chemical, temperature and UV resistance.

Aquaflex is the leading aftermarket manufacturer of replacement membranes for other brands of diffuser. Membranes for other brands of diffuser. Membranes are produced with the same high quality materials used to produce our own products.

### Applications

- Aeration tanks
- Sludge holding tanks
- Aerobic digesters
- Sequencing batch reactors
- Channel aeration
- Air on / air off processes
- Membrane bioreactors



Type	Height or total dia. mm	Dia. or length total/effective mm	Perforated area m <sup>2</sup>	Capacity m <sup>3</sup> /h	Material of membrane	Total weight kg	Outlet
AD230-9" Disc	61	270 / 230	0,039	2-8	EPDM or Silicone	0,68	3/4" male
AD300-12" Disc	61	340 / 300	0,066	2-10	EPDM or Silicone	0,85	3/4"-1" male
AD650 Plate	61	270 / 230	0,10	2-14	EPDM or Silicone	1,1	1" male
ATD63-500 Tube	65	560 / 500	0,10	2-8	EPDM or Silicone	0,6	3/4"-1" female
ATD63-750	65	810 / 800	0,15	2-10	EPDM or Silicone	0,9	3/4"-1" female
ATD63-1000	65	1060 / 1000	0,20	2-12	EPDM or Silicone	0,12	3/4"-1" female
ATD90-500 Tube	93	560 / 500	0,15	2-10	EPDM or Silicone	0,95	1" female
ATD90-750 Tube	93	810 / 750	0,20	2-13	EPDM or Silicone	1,35	1" female
ATD90-1000	93	1060 / 1000	0,25	2-16	EPDM or Silicone	1,7	1" female



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INVEST  
eau

**Diffusers**



## INVESTeau

INVESTeau is an allround supplier of durable and innovated water applications, disconnection systems, components for (waste) water storage and treatment systems and feasibility studies.

### Divisions:

- INVESTeau Consultancy
- INVESTeau Components
- INVESTeau Treatment Systems

### Diffusers

Water treatment plants are traditionally concrete tanks with equipment for ventilating, mixing and pumping water. The concrete construction is sturdy and durable. In foreign countries, where the demand for smaller, individual water treatment possibilities is rising, other factors play a role, such as cost and ease of relocation. Availability and the cost of concrete then form obstacles in the realization of water treatment plants.

Taking foreign demand into account, INVESTeau has developed a system utilising tanks made of coated steel. By using corrugated

sheet metal, the tanks are extremely sturdy while their wall thickness remains relatively thin. This makes a difference in weight, and costs of investment! Standard solutions have been developed for mounting ventilation systems, pumps and mixers easily in the tanks.

**The INVESTeau steel tanks are quickly placed and moved, worldwide, while the investment costs are 30 to 40 percent less than usual.**

### DISC Diffuser

Aquaflex diffuser's innovative design is the most efficient and cost effective on the market. It has been designed to increase performance and decrease utility costs. The higher oxygen transfer efficiencies will also permit greater process flows and improved quality. Aquaflex is the brand of membrane diffusers (plates, tubes and discs) with a plastic body.

- High oxygen transfer efficiency and low system headloss lead to low costs.
- Minimal maintenance is required.
- Aquaflex membrane disc diffusers produce fine bubbles of an average diameter < 2 mm.

- Operating air pressure creates peripheral seal to eliminate air leakage.
- Aquaflex membrane disc diffusers are highly efficient diffusers, as they are mainly used for oxygen supply of biological waste water treatment plants.
- Aquaflex membrane disc diffusers can be installed with plastic and/or stainless steel pipes and are used for all geometric forms of tanks, but they are extra-ordinarily good for medium and huge sized tanks.
- Modified Aquaflex membrane disc diffusers are also available for drinking water purposes.



3/4" and 1" outlet supply. Easy mounting application





Easy application for two-side connections on square pipes.

## **TUBE** *Diffuser*

The Aquaflex membrane tube diffusers are suitable for use in municipal wastewater treatment plants with a defined waste water quality. Chemical resistance in municipal and especially in industrial wastewater must be examined by conducting a water analysis or detailed description of the application and discussion with supplier before membranes are ordered and installed. Aquaflex manufactures tube diffusers with saddle or nipple connections to pipe, in a variety of lengths and diameters, and with tube membranes made of EPDM and Silicone. We also make replacement tube membranes competitively priced for other manufacturers products.

- Mounting onto round and square tube laterals.
- Precision die cut openings for high oxygen transfer efficiency and performance.
- The opening pressure (DWP) can be adjusted to the system specification by using different slit patterns varying number and lengths of slits and spacing between the slits.



## PLATE Diffuser

Aquaflex produces modern high efficient earation equipment, wich are mainly used for oxygen transfer into biological waste water treatment. Aquaflex is the brand of membrane diffusers (plates, tubes and discs) with a plastic body.

- Aquaflex membrane plate diffusers have low pressure loss.
- Aquaflex membrane plate diffusers produce fine bubbles of a medium diameter  $< 2$  mm.
- Aquaflex membrane plate diffusers can be installed with plastic- and/or stainless steel pipes and are used for all geometric forms of tanks, but they are extra-ordinarily good for medium and huge sized tanks.
- Aquaflex membrane plate diffusers are high efficient diffusers, and are mainly used for oxygen supply to biological waste water treatment plants.
- Minimal maintenance is required.

DN 63, DN 75, DN 90, DN 110  
3/4" and 1" outlet.

