

# Diffuser

## AKWATECH 240 PD



Disk diffuser AKWATECH 240 PD is designed for finebubble aeration of water and wastewater. It is made of top-class certified materials, which guarantees the supreme world quality. The diffusers are corrosion-proof, they do not clog and can be applied for continuous and intermittent operation processes. The application of the diffusers and properly designed system guarantee supreme effects of aeration together with lower operation costs.

Diffusers AKWATECH 240 PD may be used in the following processes:

- aeration of wastewater and activated sludge in averaging chambers of small-sized plants, home-system plants as well as collective of varied capacity,
- aerobic and oxygen treatment of water,
- aeration of water tanks, fish-breeding ponds,
- aeration of fish-storage tanks and aquaria

### TECHNICAL DATA:

<b>Type of sewage:</b>	Residential and industrial
<b>Diffuser body:</b>	1. Material: polypropylene with 30% glass fibre 2. Diameter: 275mm
<b>Fastening on pipe system:</b>	1. External thread R ½" 2. Fixing band PP with internal R ½" on pipes with diameter of 50, 63, 90, 110 mm
<b>Description of diaphragm:</b>	1. Material: EPDM 2. Thickness: 1,8 mm 3. Active surface: 260 cm <sup>2</sup>
<b>Working temperature:</b>	+5°C to 80°C
<b>Pressure loss:</b>	<35 hPa for air flow at 0-4 m <sup>3</sup> /h
<b>Pressure loss at the end of lifetime:</b>	<65 hPa for air flow at 4 m <sup>3</sup> /h
<b>Guarantee for oxygen transfer in clean water:</b>	15gO <sub>2</sub> /(m <sup>3</sup> <sub>N</sub> x depth in m.)
<b>Recommended air flow:</b>	4 m <sup>3</sup> <sub>N</sub> /h
<b>Min. air flow:</b>	From 0 m <sup>3</sup> <sub>N</sub> /h
<b>Max. Air flow:</b>	Shortly up to 6 m <sup>3</sup> /h (10min)
<b>Lifetime:</b>	Till 8 years in residential sewage treatment plants, depending on sewage constitution and terms of operation
<b>Notice:</b>	1. Diffuser has received the certificate HK/W/0249/01/99 of Państwowego Zakładu Higieny (National Hygiene Institute) for the purpose of aeration of potable water. 2. Possible diaphragm exchange

We also offer complete grids for aeration chambers made according to our engineering concepts and with the full acceptance of the investor. Our diffusers allow the use in various engineering solutions of grids. There is a choice between a self-sinking diffusers and grids as well as a bottom-fixed ones. Flexibility of the solution enables fitting the devices in objects of diversified purposes.



“AKWATECH” PRZEDSIĘBIORSTWO INŻYNIERII KOMUNALNEJ Spółka z o.o.  
61-696 Poznań - ul. Serbska 4 ☐ tel. (061) 820-20-11 ☐ fax (061) 820 -20-91

Konto: Bank Zachodni WBK S.A.1 Oddział Poznań  
Nr 2610901463000000046001522

NIP 778-00-43-631  
KRS Nr 0000077268 S.R. w Poznaniu

<http://www.akwatech.com.pl>  
e-mail: [info@akwatech.com.pl](mailto:info@akwatech.com.pl)