

MICRO-BUBBLE DISC DIFFUSER

Oxygenation in wastewater treatment plants

DESCRIPTION

EQUIP DIFFUSER are micro or fine bubble diffusers that can be either tubular or circular and are installed in some stages of the purification plant. The choice of dimension depends on the available space for installation and on the oxygen demand. The plastic material that covers the diffusers can be EPDM or Silicone depending on needs.

In addition to the single diffuser we supply its distribution network for placement in the tank bottom as shown in the photo. Also the distribution network, properly sized by our technical office, can be in steel or in plastic material.



TECHNICAL CHARACTERISTICS

Discs 8"/10"/12" diffusers are composed by polypropylene (PP) mold, reinforced with glass fibers (GF 30%). The membrane can have two different hole diameters depending on the application. It can be EPDM or Silicone.

Model EQUIP DIFFUSER Discs	Units	EBD8	EBD10	EBD12
Type of bubbles		Fine	Fine	Fine
Diameter discs	Inch	8"	10"	12"
Materials		EPDM/Silicon : Membrane ABS/PP : Carrier plate		
Connection	inch	3/4" NPT male thread		
Bubble size	mm	1 - 2		
Flow design	m ³ /h	1.5 - 2.3	3 - 4	5 - 6
Flow range	m ³ /h	1 - 6	1 - 8	1 - 12
Oxygen Transfert Efficiency	%	≥ 38 % (at 6m submerged)		
Oxygen Transfert	Kg O ₂ /h	≥0.31	≥0.42	≥0.75
Standard aeration efficiency	Kg O ₂ /kw.h	≥8.9		
Headloss	Pa	2000 - 4500	2000 - 4300	2000 - 4200
Service Area	m ²	0.2 - 0.64	0.25 - 1	0.4 - 1.5

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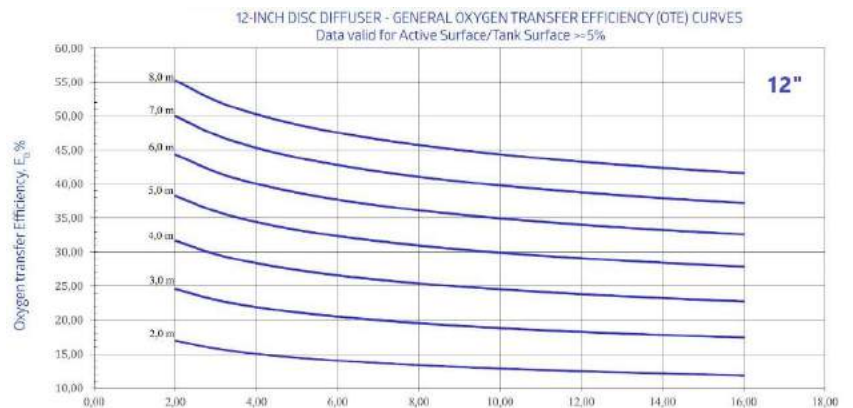
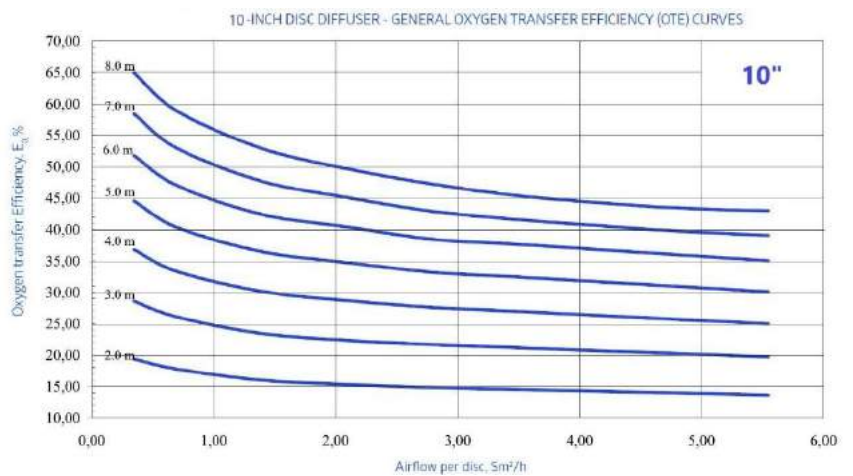
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APPLICATIONS

The range of diffusers is able to cover the demand for oxygen or ventilation for various applications in treatment plants of waste water, biological processes and sludge stabilization, until the elimination of fats and sands.

Contact us to define you oxygen needs and following the size of your tanks.

GENERAL OXYGEN TRANSFER



TYPICAL INSTALLATION WITH PVC NETWORK

