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Let's Solve Water



Sanitaire® Ceramic Disc Diffusers

EFFECTIVE AERATION FOR CORROSIVE ENVIRONMENTS



Sanitaire ceramic diffusers handle aeration of aggressive, highly corrosive wastewater, delivering high oxygen transfer both efficiently and cost effectively.

Low total cost of ownership

Sanitaire ceramic discs are specially compression-molded to achieve optimal contours for high oxygen transfer efficiency at low operating pressures. Variable areas of density across the disc surface promote uniform airflow distribution. This contributes to low system head loss, low energy consumption, low operating costs and, thereby, a low total cost of ownership.

Energy efficiency

Sanitaire ceramic discs feature a top-sealing threaded retainer ring, which ensures an airtight seal. As air pressure increases, the sealing force on the O-ring increases, thus creating an airtight seal. Because there are no air leaks, no energy is wasted.

20-year life expectancy

Durable, reliable and clog-resistant, Sanitaire ceramic discs are low-maintenance diffuser elements that typically last 20 or more years. To prolong service life further, an optional in-place gas cleaning system enhances continuous performance.

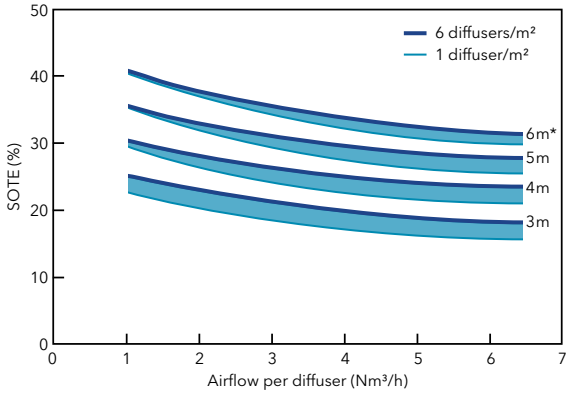
SANITAIRE
a xylem brand

Sanitaire® Ceramic Disc Diffusers

Experience you can trust.

With our unique expertise in biological treatment processes and equipment, Xylem can design state-of-the-art aeration systems that provide energy efficiency and process stability. From developing aeration and mixing specifications to defining a control strategy, we can assist you every step of the way.

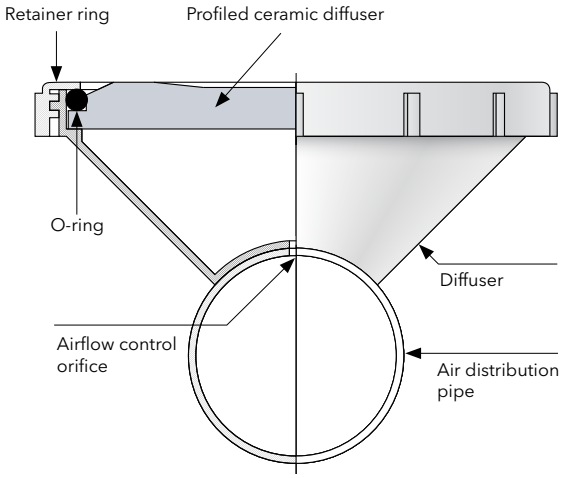
Performance curves



*Submergence

Diffuser holder

The easy-to-install Sanitaire 2300 diffuser holder provides superior mechanical strength to support Sanitaire ceramic discs.



Technical data

Disc material	Proprietary compression-molded ceramic
Diffuser holder material	uPVC or cPVC
Disc diameter	178 or 229 mm (7 or 9 in)
Mounting options	Saddle or screw-on
Effective surface area	
178 mm (7 in)	0.024 m^2 (0.26 ft^2)
229 mm (9 in)	0.038 m^2 (0.41 ft^2)
Orifice size	5 mm ($^{13}/_{64}$ in)
Airflow range per disc	0.8-7 Nm^3/h (0.5-4.5 scfm)**
Standard oxygen transfer efficiency (SOTE)	6-7% per m submergence (2-2.5% per ft)**
Standard aeration efficiency (SAE)	2.5-6 kg O_2 / kWh (4-10 lb O_2 / hph)
Operating mode	Continuous

*** For 229 mm (9 in) diameter*

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