

Sanitaire® Silver Series II Diffusers

THE FINEST FINE BUBBLE DIFFUSER FOR BIOLOGICAL TREATMENT

For a combination of high aeration efficiency and low operating costs, choose the Sanitaire Silver Series II membrane diffuser - the most widely used fine bubble diffused aeration system available today.

High oxygen transfer efficiency

The Sanitaire Silver Series II membrane design uses a unique slit pattern and slit shapes to provide fine, uniform air distribution across the whole membrane surface. This allows the diffusers to deliver optimal oxygen transfer efficiency across the diffuser operating range.

Long service life, low maintenance

The high elasticity and degradation-resistance of specially blended high-grade EPDM elastomer compounds contribute to a service life of 10 or more years.

Operating efficiency

The unique membrane shape with integrated O-ring creates a top seal with the threaded retainer ring to eliminate leakage. This reduces energy consumption and raises operating efficiencies.

Great application flexibility

A highly effective, integrated check valve enables the aeration zones to easily be shut down for air-on/air-off applications.



Sanitaire Silver Series II LP

This 9" low-pressure version of the Sanitaire Silver Series II membrane features a modified slit pattern to handle airflow up to 20.4 Nm³/h (12 scfm) with minimal pressure loss. It is an excellent choice for sludge and other heavy-duty applications.

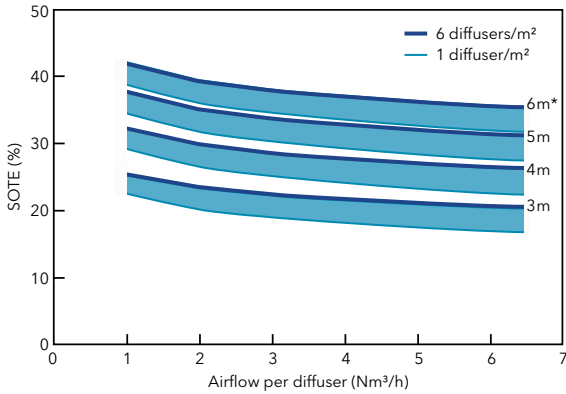


SANITAIRE
a xylem brand

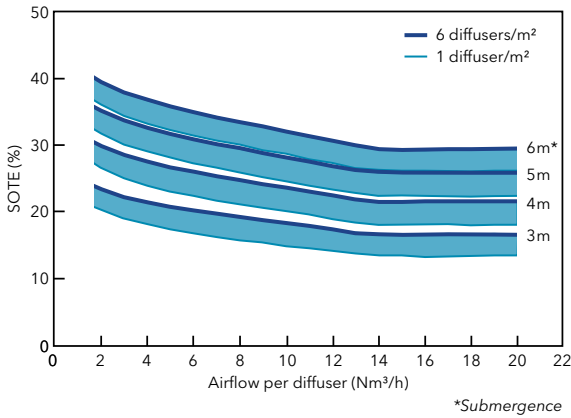
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Performance curves

Silver Series II

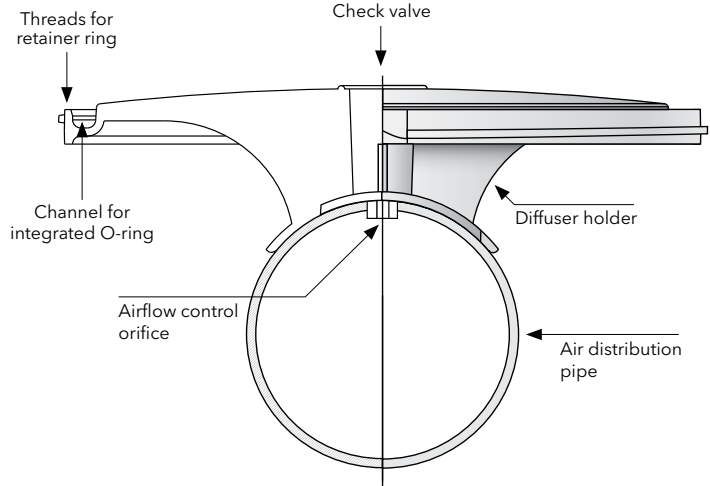


Silver Series II LP



Diffuser holder

Sanitaire 2433 diffuser holders provide superior mechanical strength to support Sanitaire Silver Series II disc diffusers.



Technical data

	Silver Series II	Silver Series II LP
Disc material	Specially blended high-grade EPDM	Specially blended high-grade EPDM
Diffuser holder material	uPVC, cPVC or Polypropylene	uPVC, cPVC or Polypropylene
Disc diameter	178 or 229 mm (7 or 9 in)	229 mm (9 in)
Mounting options	Saddle or screw-on	Saddle or screw-on
Effective surface area		
178 mm (7 in)	0.024 m ² (0.26 ft ²)	n/a
229 mm (9 in)	0.038 m ² (0.41 ft ²)	0.038 m ² (0.41 ft ²)
Orifice size	5 mm (1 ³ / ₆₄ in)	5 or 6 mm (1 ³ / ₆₄ or 0.25 in)
Airflow range per disc	0.8-6.8 Nm ³ /h (0.5-4.0 scfm)**	1.7-20.4 Nm ³ /h (1-12 scfm)
Standard oxygen transfer efficiency (SOTE)	6-8% per m submergence (2-2.5% per ft)**	4-6.5% per m submergence (1.3-2% per ft)
Standard aeration efficiency (SAE)	2.5-6 kg O ₂ / kWh (4-10 lb O ₂ / hph)	1.5-4 kg O ₂ / kWh (3-8 lb O ₂ / hph)
Operating mode	Continuous / intermittent	Continuous / intermittent

** For 229 mm (9 in) diameter