Technical Specification

Sanitaire, Gold Series

SANITAIRE
a xylem brand

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Product Description

Diffuser design

A low flux, high density fine bubble panel diffuser designed for an efficient and reliable aeration and mixing process of industrial and municipal wastewater. The fine bubble diffuser is completely compatible with other Sanitaire aeration equipment.

Intended use

The product is only for use with municipal and industrial wastewater. If there is a question regarding the intended use of the equipment, then contact a sales representative.

Application limits

Data	Description
Media (liquid) temperature	• Minimum +2°C (+36°F) • Maximum +38°C (+100°F)
Average pipe temperature, at diffuser	• Minimum –10°C (+14°F) • Maximum +40°C (+104°F)
Average pipe temperature, at lower dropleg	Maximum +55°C (+131°F)

Dimensions and weights

Product

Dimensional drawings are available from your sales representative.

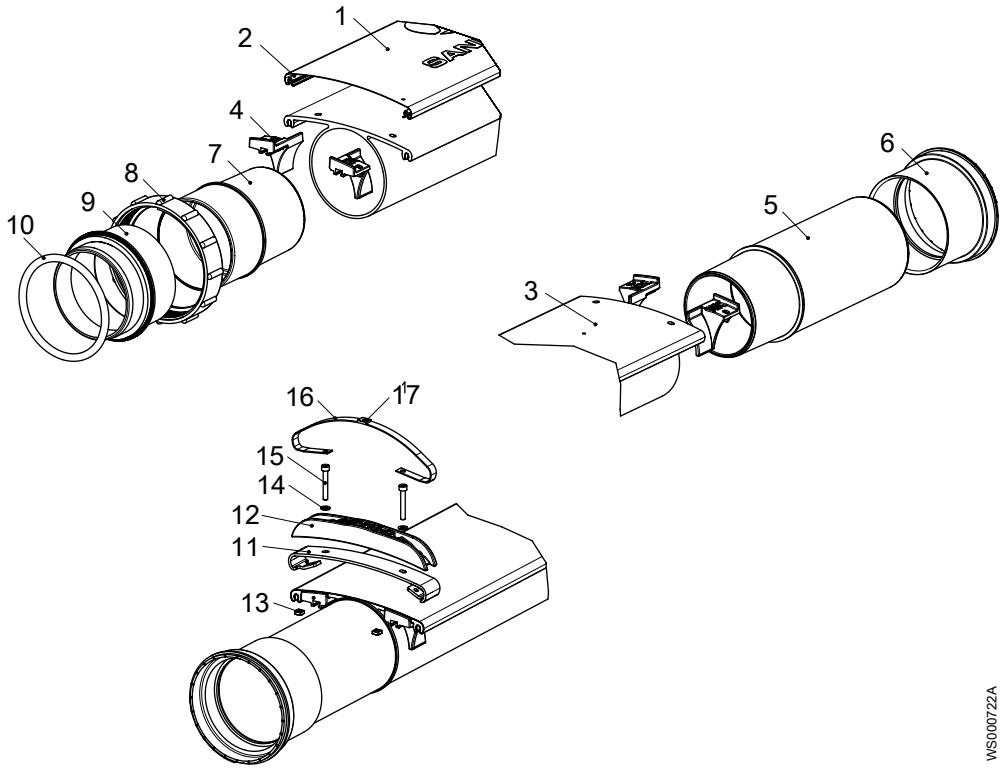
Length	Weight
700 mm (28 in)	5.6 kg (12.3 lb)
1500 mm (59 in)	8.4 kg (18.5 lb)
2286 mm (90 in)	10 kg (22 lb)

Installation

Description	Length
Distance from the wall, parallel to the product	• Minimum 300 mm (1 ft) • Maximum 1200 mm (4 ft)
Distance from the wall, perpendicular to the product	Maximum 1200 mm (4 ft)
Spacing between products	• Minimum 300 mm (1 ft) • Maximum 1200 mm (4 ft)
Orifice size	3 mm (1/8 in)

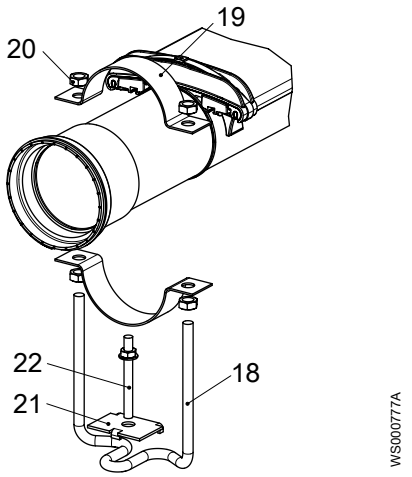
Materials

Factory assembled parts



Position number	Denomination	Material
1	Membrane	Polyurethane
2	O-ring cord	Silicone
3	Holder	PVC-U, 2% TiO_2
4	Wing support	PVC-U, 2% TiO_2
5	Pipe coupling	PVC-U, 2% TiO_2
6	Socket	PVC-U, 2% TiO_2
7	Pipe coupling	PVC-U, 2% TiO_2
8	Retaining ring	PVC-U, 2% TiO_2
9	Spigot	PVC-U, 2% TiO_2
10	O-ring	EPDM
11	Gasket	EPDM
12	End seal holder	PVC-U, 2% TiO_2
13	Square nut	SS 316
14	Washer	SS 316
15	Screw	SS 316
16	Strap	SS 316
17	Lock unit	SS 316

Parts assembled on site



Position number	Denomination	Material
18	Pipe support	SS 304, SS 316
19	Clamp	SS 304, SS 316
20	Nut	SS 316
21	Locating plate	SS 316
22	Anchor bolt	SS 304, SS 316

Accessories

Guide support

Table 1: SS 304, SS 316

Dimension	Height
M8	250 or 330 mm
M12	
5/16 in	10 or 13 in
1/2 in	

Anchor bolt

Table 2: SS 304

Dimension	Type
M10	Mechanical or chemical

Table 3: SS 304, 316

Dimension	Type
3/7 in	Mechanical or chemical
3/8 in	

Operational limits

Use ADA for proper dimensioning and related performance.

Description	Value
AT/AD	• Minimum 2.00 • Maximum 18.00
Depth	• Minimum 1 m (3 ft) • Maximum 12 m (40 ft)
Flux rate	• Minimum 3.66 $Nm^3/h/m^2$ (0.21 $SCFM/ft^2$) • Maximum 36.6 $Nm^3/h/m^2$ (2.15 $SCFM/ft^2$)
Flow per diffuser	Not applicable

Performance curves

Standard oxygen transfer efficiency (SOTE) %

A High diffuser efficiency

B Low diffuser efficiency

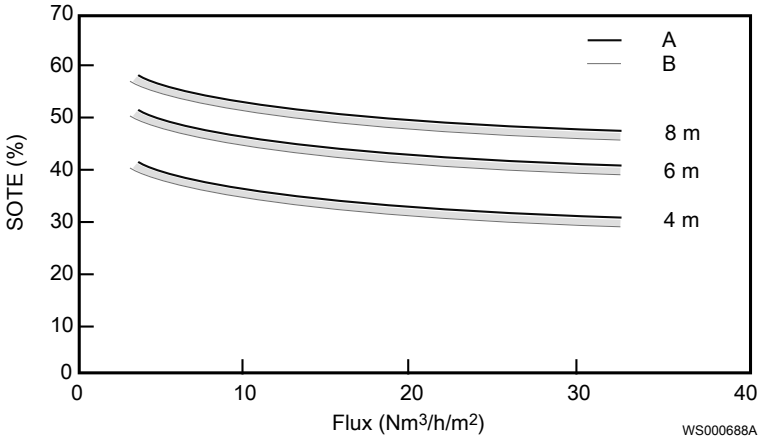


Figure 1: Metric units

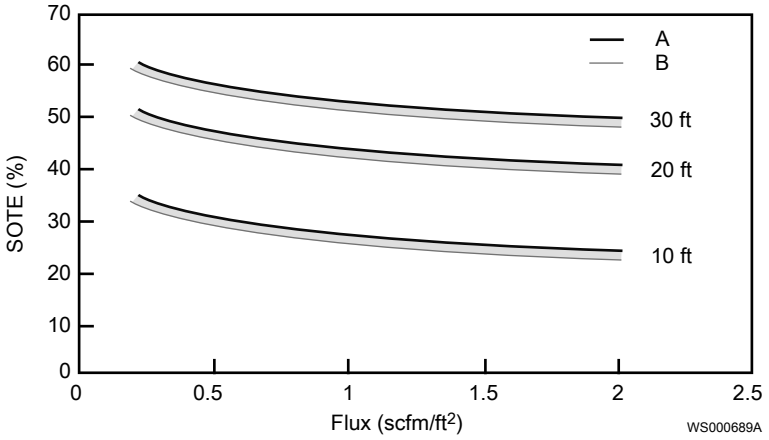


Figure 2: Imperial units

Dynamic wet pressure (DWP)

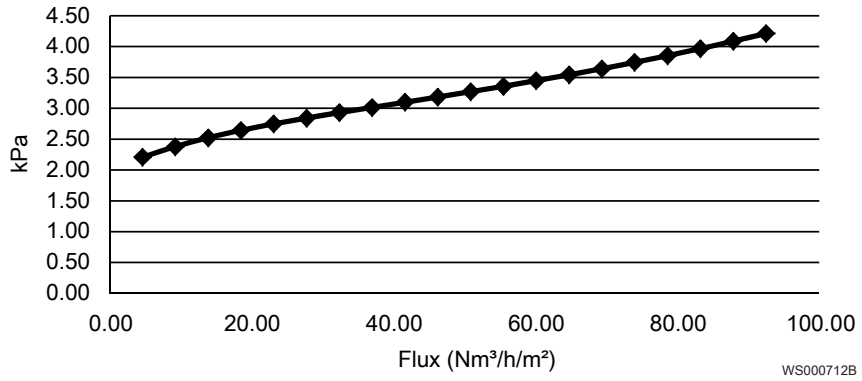


Figure 3: Metric units

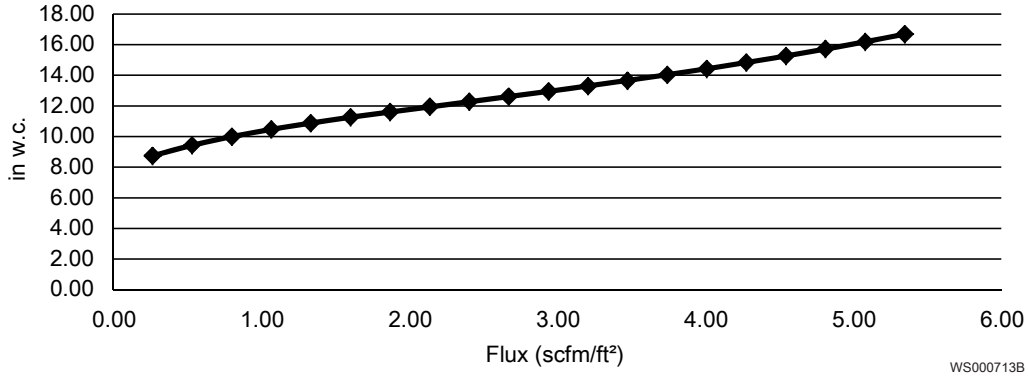


Figure 4: Imperial units

Xylem |'zīləm|

1) The tissue in plants that brings water upward from the roots
2) A leading global water technology company

We're 12,500 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to xyleminc.com

xylem
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Visit our Web site for the latest version of this document and more information

The original instruction is in English. All non-English instructions are translations of the original instruction.

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