

Rex-Flex® Fine Bubble Membrane Diffusers

Rex-Flex® diffusers consistently produce 1 – 3 mm fine bubbles through thousands of uniform circular apertures in the flexible membrane.

When the air is turned on, the membrane expands and rises off its seat. At operating pressure, the apertures open to release a controlled, energy efficient stream of fine bubbles.

When the membrane is periodically deflated, the apertures close and surface deposits are sloughed off. This significantly reduces the possibility of clogging, plugging and fouling that adversely affect oxygen delivery rates.

As a result, the Rex-Flex® diffuser has a process aeration efficiency factor that remains consistent over time. Energy consumption remains at predicted levels. Tedious diffuser cleaning is minimized. Process stability is maintained.

Benefits

- Deliver consistent process aeration efficiency
- Provide superior endurance via their special elastomeric formulation.
- Prevents backflow and system contamination with their non-mechanical design.
- Self cleaning capability provides savings in terms of fewer required tank draw downs.



Retrofits

The Rex-Flex® fine bubble membrane diffusers can have a payback period of two years or less when replacing coarse bubble or mechanical aerators. Payback to replace medium-to-fine bubble ceramic or plasticized diffusers may be longer depending on system condition.

In some instances, when replacing coarse bubble diffusers or mechanical diffusers they may reduce aeration power costs by up to 65 percent depending upon application. Siemens diffusers can be used in either fixed or lift out installations. Generally, because of the Siemens diffusers' greater effective area of aeration, fewer diffusers are needed, simplifying the retrofit.

Siemens
Water Technologies
1901 S. Prairie Avenue
Waukesha, WI 53189
800.524.6324 toll-free
262.547.0141 phone
262.547.4120 fax
www.siemens.com/water

The information provided in this literature contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of the contract.

Rex-Flex is a trademark of Siemens, its subsidiaries or affiliates.

©2008 Siemens Water Technologies Corp.
EN-REX-FLEX-DS-0508
Subject to change without prior notice.
All rights reserved.

Data Sheet

Water Technologies

SIEMENS