



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. Evoqua diffusers can be used in either fixed or lift out installations. Generally, because of the Evoqua diffusers' greater effective area of aeration, fewer diffusers are needed, simplifying the retrofit.