

COMPREHENSIVE SUPPORT  
FOR ALL OF YOUR AERATION NEEDS



**Fine Bubble Dura-Disc™ Technology**

Combines high-flow + high-efficiency technology in an easy-to-install, long-life, durable disc diffuser.

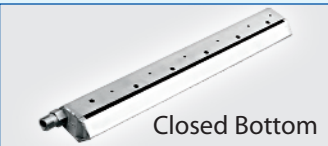


**Fine Bubble Dura-Tube™ Technology**

Combines the efficiency of a fine bubble membrane diffuser with the utility of a tube-type diffuser. An ideal retrofit for existing tube diffusers.



Open Bottom



Closed Bottom

**Wilfley Weber Coarse Bubble Technology**

Provides maximum coarse bubble efficiency and long-life operation featuring triple vent air discharge. Stainless Steel with thick cast end-piece.

**Applications**

Activated Sludge Basin  
Channel Aeration  
Lagoon Aeration  
Gas & Chemical Stripping  
Retrofit Existing Diffusers

Aerobic Digesters  
Oxidation Ditch  
Reaeration  
Pretreatment

The products pictured, described, or listed in this publication are illustrative only and are subject to change as appropriate.

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**DISINFECTION**  
**FILTRATION**  
**MEMBRANE TECHNOLOGIES**

**TREATMENT PLANTS**  
**DEWATERING**  
**CLARIFIERS**  
**MUNICIPAL**  
**INDUSTRIAL**  
**AERATION**

**CLASS A BIOSOLIDS**  
**FLOW CONTROL**

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WATER AND WASTEWATER TREATMENT SOLUTIONS

AERATION SYSTEMS

**DURA-DISC™**

THE INDUSTRY'S CHOICE FOR  
**HIGH-FLOW + HIGH-EFFICIENCY**  
MEMBRANE DIFFUSERS

**Ashbrook**  
**Simon-Hartley®**

WATER AND WASTEWATER TREATMENT SOLUTIONS





# HIGHER FLOWS WITH HIGHER OXYGEN TRANSFER EFFICIENCIES DURABLE CONSTRUCTION & PROCESS VERSATILITY

## DURA-DISC™ High-Flow+High-Efficiency Membrane Diffusers

- **High Oxygen Transfer Per Diffuser Unit**
- **Self-Cleaning, Non-Clogging Tear Resistant, "I" Slit Design**
- **Proven Long-Term Durability**
- **Easy, Fast Installation**
- **Reduced Overall Costs Per Unit of Aeration**
- **Permanently Locked Membrane Attachment**
- **Exclusive Injection Molded Tapered Membrane**
- **Exclusive Pipe Mounting System**
- **Molded Center Seat Check Valve**
- **Uniform Bubble Diameter and Pattern**
- **Low Pressure Drop Across Diffuser Membranes**
- **1 SCFM to 10 SCFM Efficient Air-Flow Range**

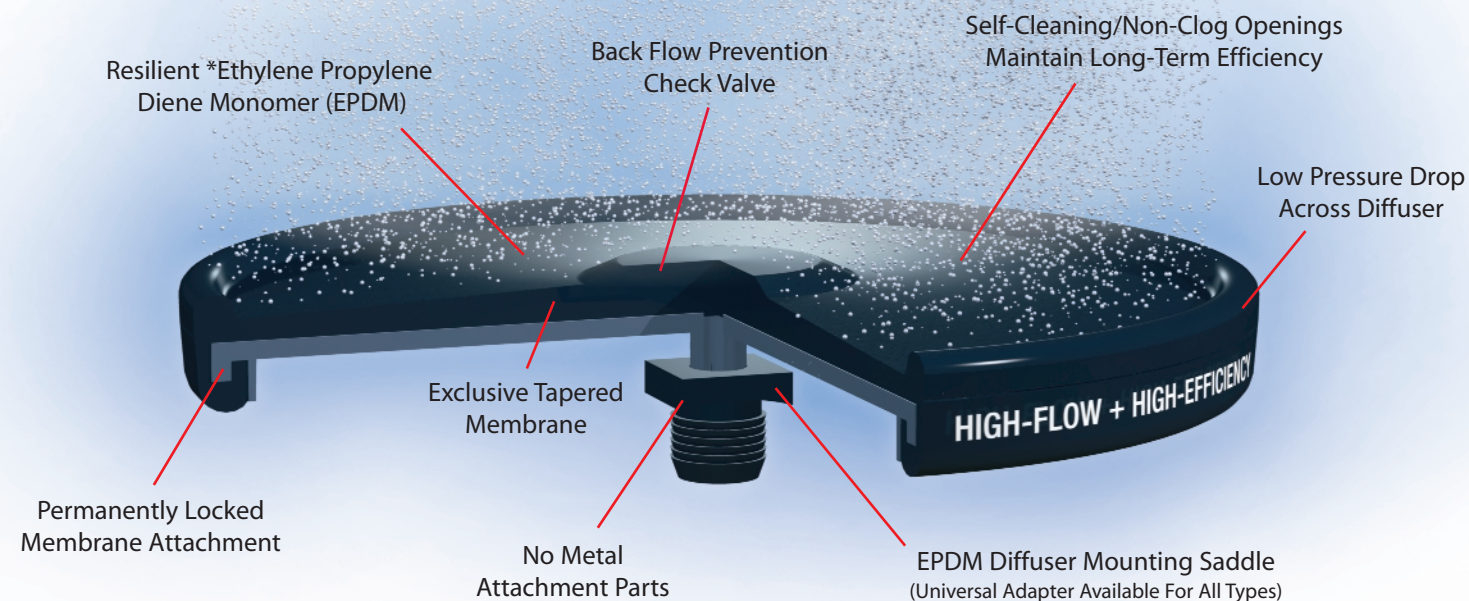
## THE INDUSTRY'S CHOICE FOR HIGH-FLOW+HIGH-EFFICIENCY MEMBRANE DIFFUSERS

Aeration is one of the core activities performed at virtually every wastewater treatment facility. For this reason, it is a priority to achieve highly efficient oxygen transfer. In addition, capital and construction costs dictate the construction of the minimum in aeration basin space. Obviously, flows are naturally quite variable, so the need for volume flexibility is absolutely necessary. Since it is uneconomical to build extra basin space "just in case", it is important to be able to substantially increase the flow of air into basin diffusers and thus increase process speed. Today, accomplishing both of these tasks, flow + efficiency, with long-term durability is possible because of DURA-DISC™ technology.

DURA-DISC high-flow+high-efficiency membrane diffusers allow you to achieve higher oxygen transfer in your aeration

basin. This is possible because only DURA-DISC diffusers are capable of operating across the wide range of SCFM flows (from 1 SCFM to 10 SCFM). This Full-Spectrum™ capability allows for the maximum process flexibility associated with varying flow conditions. For example: when your process flow increases, you can increase the SCFM rate and efficiently aerate larger volumes using the existing basins. For new facility design, this means that you can scale basins smaller and handle increased flows by simply increasing SCFM, effectively multiplying basin space by as much as 10 times.

The long-term durability of DURA-DISC at all SCFM levels has been proven over decades of operation. The tapered design EPDM diffuser membrane is resilient and is permanently locked to the uniquely maintenance-free DURA-DISC assembly.



## EASY TO RETROFIT TO EXISTING SYSTEMS

The benefits of the DURA-DISC™ diffuser are also available for existing aeration basins with other diffuser technologies installed. The DURA-DISC is easy to

install into existing systems on a diffuser-by-diffuser basis. Retrofit kits are available for virtually any brand of diffuser.

## AIR-CHECK™ AERATION PROCESS EVALUATION PROVIDES A DEFINED PAYBACK

The best solution is to replace inefficient existing systems with an energy saving DURA-DISC diffuser system. With the benefit of an Air-Check™ Aeration Process Evaluation (an Ashbrook Simon-Hartley exclusive) your existing diffusers can be replaced and the DURA-DISC system installed with a **defined payback**. The replacement of

an inefficient oxygen transfer system with the energy efficient DURA-DISC fine bubble diffuser system will pay for itself in a relatively short period of time just based on energy savings. The payback period for your specific installation can be calculated as a result of the Air-Check Aeration Process Evaluation.



Only Dura-Disc diffusers provide long-life operation across a wide spectrum of SCFM flows (from 1SCFM to 10 SCFM).



Wide air flow range allows for process versatility in diverse applications.



## Simple and Quick Installation Procedure Reduces Up Front Costs, Significantly



For more than a quarter of a century, Wilfley Weber's advanced diffuser technologies have been proven in installations throughout North America. This includes aeration solutions for virtually every type of municipal, industrial and aquaculture application. Over the years, Wilfley Weber has earned an enviable reputation as the leader in high-flow + high-efficiency oxygen transfer. Wilfley Weber technologies are available to meet every aeration requirement, including both fine bubble, and coarse bubble diffusers.

Installation is a very simple four-step procedure, which makes it possible to install each diffuser in a matter of minutes. This simplicity dramatically reduces labor costs associated with installation. As the adjacent photos show; soap is applied to the saddle; soap is applied to the Dura-Disc; then the diffuser is pressed into place and twisted a half turn to set the threads. That's it!