

Water Technologies

DualAir® Fine
Bubble Ceramic or
Membrane Diffuser
System

SIEMENS



DualAir Diffusers

DIFFUSER BASES MOLDED TOGETHER

The DualAir® fine bubble diffuser system is a new development of Siemens Water Technologies. The DualAir diffuser assembly includes two diffuser bases molded together with a curved saddle formed between them.

This design allows the DualAir assembly to be bonded to the air header pipe in such a way that each of the DualAir diffusers is located on the opposite side of the pipe, connected by a curved saddle between them.

Previous diffuser designs have only used single diffusers, arranged to mount on the top or side of the air manifold piping. The major advantage of the DualAir design is that two diffuser assemblies can be mounted at one location, instead of one diffuser. This mounting allows twice as many diffusers per header than is possible with other designs. The design also provides a greater contact area between the pipe and the diffuser assembly, thereby providing an attachment bond with greater holding power.

DUALAIR SYSTEM ADVANTAGES

Compared to single diffusers, DualAir provides:

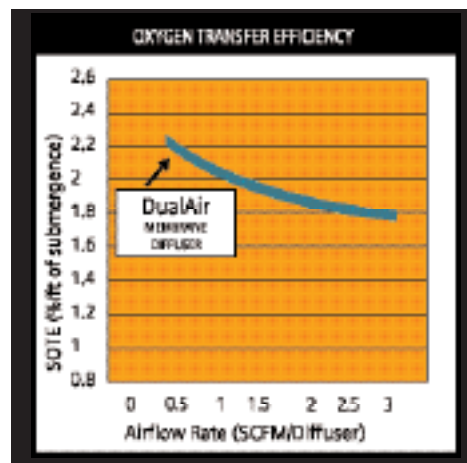
- Up to 40 diffusers per 20 foot air header section.
- Greater contact area for a stronger bond between the diffuser assembly and piping.
- Use of heavy wall diffuser header pipes.
- Design with fewer air diffuser headers.
- Design with fewer pipe supports.
- Design for fewer air manifold to distribution piping connections.
- Lower shipping costs.
- More open floor space for maintenance.
- Installation time reduced by 20-40%.
- More cost effective aeration systems.

INSTALLATION COST IS 20-40% LESS

The advanced design of DualAir high density fine bubble diffuser assemblies provides many advantages over previous systems. DualAir systems, for example, require as few as half as many air diffuser headers, support stands, couplings, end caps, and manifold connections. The result is a very economical system that can be installed at 20% - 40% less cost.



Either membrane or ceramic media may be used with DualAir's flexible design. The media is secured to the base by an easily installed threaded lock ring. The membrane diffuser includes a PVC support plate. The diffuser base assembly is firmly bonded to Schedule 40 PVC pipe, not light weight sewer pipe, as is the industry standard.



DualAir oxygen transfer efficiency chart.

DualAir with ceramic media.

DualAir with membrane media.



The EPDM membrane media is a high pressure injection molded compound using a well proven formula that has superior rebound memory. It will last up to 10 years, even at high airflow rates. The membrane includes precision perforated "I" slits that resist tearing and stay cleaner, longer. They open when airflow is present, close when airflow is stopped. A thick center prevents ballooning and the unique tapered membrane cross section guarantees equal fine bubble distribution across the entire surface. When ceramic media is supplied it meets or exceeds all industry standards for strength and performance.

Diffused air products offered by Siemens include the most complete line of fine and coarse bubble air diffusers of any company in the industry, guaranteeing you'll find the right diffuser for your application. Siemens Water Technologies products include full technical support, to assist you with everything from air diffuser selection to complete aeration piping system design. For new installations, retrofit, or replacement, we're your one source.

Coarse Bubble Diffusers	Fine Bubble Diffusers
 <p>SED DIFFUSER</p>	 <p>FLEXDISC DIFFUSER (THREADED CONNECTION)</p>
 <p>VARIAIR DIFFUSER</p>	 <p>FLEXDOME DIFFUSER (CERAMIC DOME REPLACEMENT)</p>
 <p>SNAP-CAP DIFFUSER</p>	 <p>DUALAIR MEMBRANE & CERAMIC DIFFUSER</p>
 <p>AIRSEAL DIFFUSER</p>	 <p>FLEXLINE TUBULAR DIFFUSER</p>
 <p>WIDEBAND STAINLESS STEEL DIFFUSER</p>	
 <p>AIRBAND WIDEBAND PLASTIC DIFFUSER</p>	

Contact us to find out more.

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Typical DualAir high density diffuser header.

The information provided in this brochure 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.

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