



USFilter

DUALAIR™

FINE BUBBLE

CERAMIC OR MEMBRANE

DIFFUSER SYSTEM

DIFFUSER BASES
MOLDED TOGETHER

The DualAir fine bubble diffuser system is a new development of the EnviroQuip Products Group of USFilter. 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.

FLEXIBLE DESIGN
MEMBRANE OR CERAMIC MEDIA



DualAir with ceramic media.



DualAir with membrane media.

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.

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.

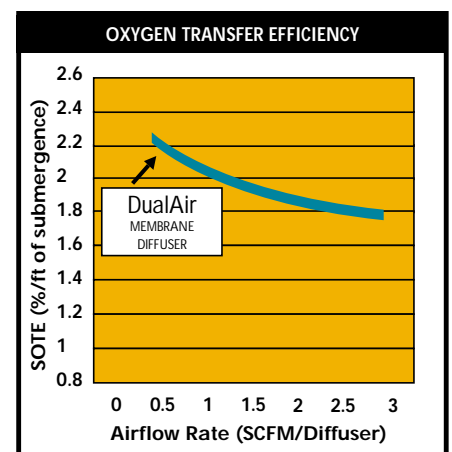


Typical DualAir high density diffuser header.



Side-saddle diffuser design.

A FineAir, staggered, single diffuser layout may be selected when wide spacing between diffusers on a header pipe is required on low density applications. These units are individual diffusers that are mounted singly on opposite sides of the air diffuser header in a staggered pattern. This system design gives excellent results for applications that do not require a high diffuser density.



DualAir oxygen transfer efficiency chart.

EnviroQuip products offered by USFilter 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. EnviroQuip 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>AIRSEAL DIFFUSER</p>	 <p>DUALAIR MEMBRANE & CERAMIC DIFFUSER</p>
 <p>WIDEBAND STAINLESS STEEL DIFFUSER</p>	
 <p>AIRBAND WIDEBAND PLASTIC DIFFUSER</p>	 <p>FLEXLINE TUBULAR DIFFUSER</p>

To find out more about how to put USFilter to work for you, contact us at



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