



PRODUCT SPECIFICATIONS

FlexAir® Magnum Diffuser

Fine Bubble Flexible Membrane

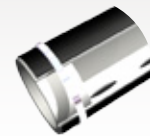
- Ideal for coarse bubble diffuser upgrades
- Non-metallic construction for maximum chemical, temperature, and UV resistance
- Superior strength stainless steel connection option available
- Standard and high capacity membrane options engineered for optimized OTE, air handling, and operating pressure requirements
- Resistant to fouling and plugging for low maintenance
- Available in 4, 6, 8-inch, 110 and 160-mm pipe sizes
- Maximum mechanical integrity, ease of installation and maintenance, and ability to relocate or add diffusers for process modifications



Precision die cut openings for high oxygen transfer, uniform air release, and low operating pressure.



Alternative mounting systems including threaded and through tube configurations are available



Mounts on any pipe material (PVC, ABS, CPVS, SS) or size

High Unit Capacity for Demanding Oxygenation and Mixing Applications

EDI FlexAir® Magnum a fine pore, flexible membrane diffuser provides maximum operational flexibility and aeration capacity.

The Magnum diffuser features a full circumferential perforation design. This design produces optimum aeration capacity performance. A full 380 in² (0.245 m²) of perforated area is provided with a single Magnum diffuser. The geometry of the diffuser supports high diffuser density applications over 65% floor coverage when the highest aeration capacity is desired.

Unique to the FlexAir product is the ability to configure the Magnum diffuser with a standard or high capacity membrane for optimized aeration capacity and engineered operating pressure performance. All FlexAir diffusers are configured with premium quality membranes engineered by the Membrane Technologies division at EDI. Alternate membrane materials and perforation patterns are available for non-standard industrial or municipal applications.

An integral triple check valve feature prevents the backflow of liquid into the diffuser and piping. The FlexAir Magnum diffuser is ideally suited for on/off applications and requires minimal maintenance for long-term performance.

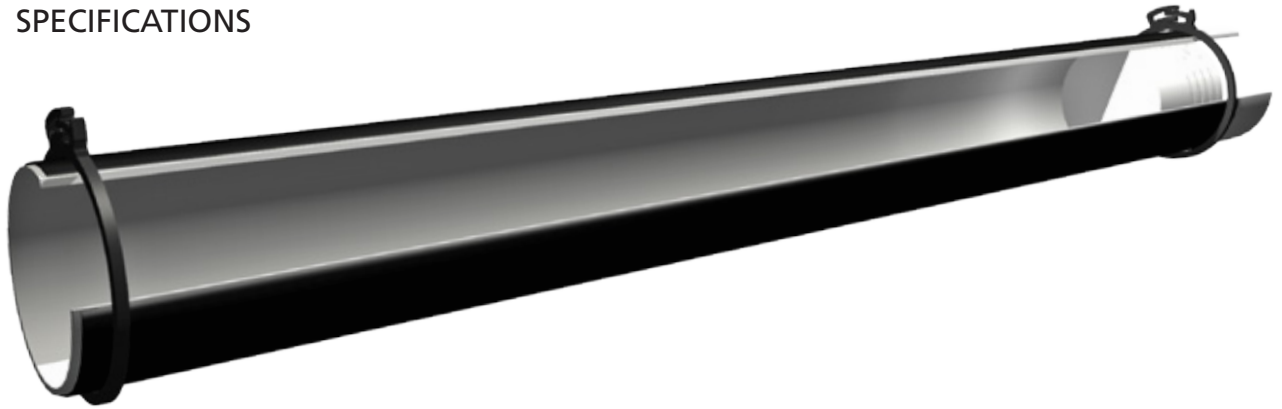
The FlexAir Magnum membrane support tube is constructed of PVC for maximum chemical resistance and mechanical durability. ABS construction is recommended for high temperature applications or where cold temperature durability is required.

MADE IN
USA

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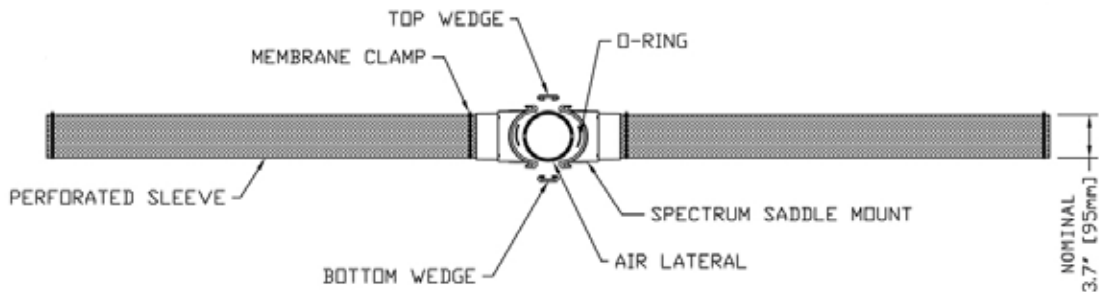
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The FlexAir Magnum diffuser is ideally suited for a wide variety of aeration and mixing applications including tank and lagoon facilities. For rigid piping applications, the FlexAir Magnum diffuser is available with the Spectrum Saddle Mount for maximum mechanical durability and ease of installation and maintenance. Unique to the Spectrum Saddle Mount is the ability to expand, relocate, reconfigure or add diffusers to match process demands.

For EDI Floating or Submerged Lateral piping systems, the FlexAir Magnum diffuser is available in both suspended and floor mounted diffuser configurations.

- Non-buoyant design for reduced uplift and stress on mounting connection
- Efficient geometry supports high density installations of over 65% floor coverage
- Advanced technology premium quality membranes available in EPDM, urethane, or special polymer blends, plus BioShield™ and BioCide™ technologies for reduced fouling and maintenance
- Triple check valve design prevents entry of liquid/solids into piping. Ideal for on/off applications



Model	Typical Airflow Continuous*	Typical Airflow Membrane DWP	Dry Weight Duplex	Operational Weight Duplex
84P	0-20 scfm (0-32 Nm ³ /hr)	10-22.5 in H ₂ O (2.5-5.6 kPa)	11 lbs (5.2 kg)	6.3 lbs** (2.9 kg)

* Typical values shown; Special membranes & unit designs available

** VNB Configuration only