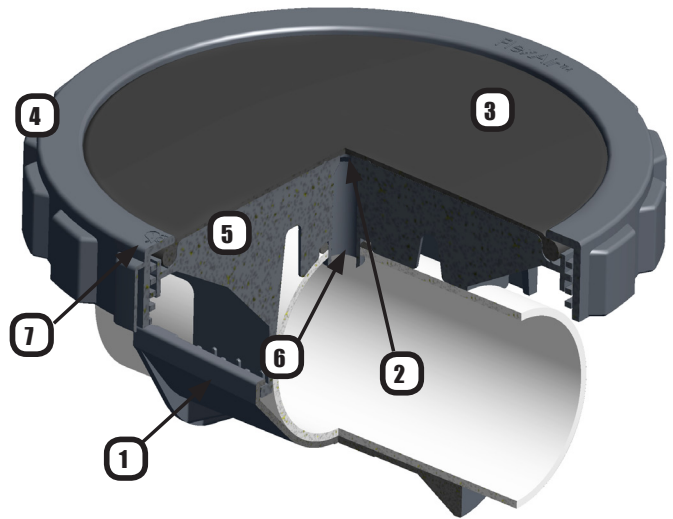


PRODUCT SPECIFICATION SHEET

EDI FlexAir[®] ISM Disc With Integral Saddle Mount

FlexAir Disc diffuser incorporates EDI's advanced technologies for superior aeration performance, flexibility, and reliability.

- Precision die cut openings for high oxygen transfer, uniform air release, and low operating pressure
- High capacity membrane option available for maximum airflow and low operating pressure
- Advanced technology premium quality membrane materials available in EPDM and special polymer blends
- Full 9 inch (230 mm) and 12 inch (300 mm) of active area
- Triple check valve design prevents entry of liquid/solids into piping. Ideal for on / off applications
- Resistant to fouling and plugging for low maintenance
- Rugged, heavy-duty construction – withstanding over 200 lb (90.7kg) edge load on 9" model
- Glass fiber reinforced polypropylene construction for maximum chemical, temperature, and UV resistance
- Integrated Saddle Mount provides ease of installation and maintenance
- KlicLoc™ retainer for positive mechanical lock
- Available in 3 inch, 4 inch, 90 mm, and 110 mm pipe sizes for design flexibility
- Mounts on any pipe material (PVC, ABS, CPVC, SS, etc.).
- Standard units IN STOCK for immediate shipment



- | | |
|--------------------------------|----------------------|
| 1. KlicLoc™ Retainer | 5. Diffuser Body |
| 2. Primary Check Valve Feature | 6. Air Inlet Orifice |
| 3. Flexible Membrane Media | 7. EZSeal™ |
| 4. Membrane Retainer Ring | |



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PRODUCT SPECIFICATION SHEET

The FlexAir® disc diffuser provides unmatched mechanical strength, operating flexibility and oxygen transfer efficiency. The innovative Integral Saddle Mount provides maximum mechanical integrity – up to 1.5 times the strength of conventional solvent welded mounting systems.

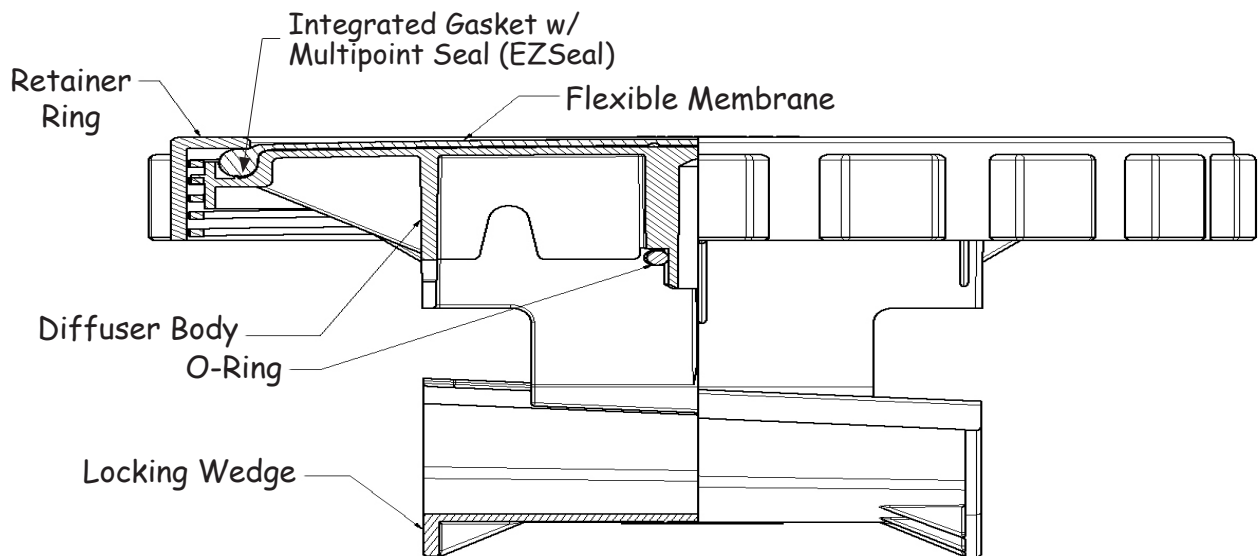
The FlexAir disc diffuser is provided with premium quality membrane materials that are engineered by the EDI Membrane Technologies division. EDI's proprietary membrane materials are engineered for superior product life. Multiple membrane perforations are available to optimize the performance of the diffuser for maximum operating efficiency, air handling capacity, or operating pressure. An integral triple check valve feature prevents the backflow of liquid into the diffuser and piping.

The FlexAir disc diffuser is ideally suited for on/off applications and requires minimal maintenance for

long-term performance.

The diffuser assembly and Integral Saddle Mount is available in glass-fiber reinforced polypropylene for maximum performance. This material option offers greater mechanical and temperature capabilities than conventional PVC or CPVC products. The Integral Saddle Mount is compatible with any pipe material and is available in 3 inch, 4 inch, 90 mm and 100mm diameter sizes. This flexibility allows the air conveyance system to be sized to match project objectives with minimum pressure loss.

The Integral Saddle Mount features an air inlet port that inserts into the pipe and the KlicLoc™ retainer positively locks the assembly to the lateral piping. Once installed, the assembly can withstand an external perimeter load in excess of 200 lb (90.7 kg) without failure.



Diffuser Type	Design Airflow		Overall Diameter		Active Surface Area		Dry Weight		Net Operating Buoyancy	
	scfm	m ³ _N /h	in	mm	ft ²	m ²	lb	kg	lb	kg
9" Micro	0-6.0	0-9.5	10.9	277	0.41	0.038	1.9	0.85	1.3	0.59
9" High Cap	0-10.0	0-16	10.9	277	0.41	0.038	1.9	0.85	1.3	0.59
12" Micro	0-10.0	0-16	12.9	328	0.64	0.059	2.6	1.1	2.3	1.0
12" High Cap	0-18.0	0-29	12.9	328	0.64	0.059	2.6	1.1	2.3	1.0

- Optimum oxygen transfer efficiency is achieved when operating in the middle to low end of the airflow range. The approximate operating pressure of the diffuser at the mid-range is 13 - 16 inches H₂O (3.2 - 4.0kPa).
- Operating the unit at the high end of the range will result in reduced performance and increased operating pressure. Use the maximum airflow value for short term operations such as peak loads or system maintenance.
- Short term operation (peak conditions) up to 2x design airflow.



Cape Town: 021 201 2147

Johannesburg: 011 813 1083

Ballito: 032 586 3344

www.circuit.co.za | info@circuit.co.za



Environmental Dynamics International

5601 Paris Road • Columbia, MO 65202 USA
+1 877.EDI.AIR8 (334.2478) +1 573.474.9456

For Parts Information:
parts@wastewater.com
www.diffuserexpress.com

For System Information:
systems@wastewater.com
www.wastewater.com