SPECIFICATION

FlexAIR® PRO ISM DISC

Integral Saddle Mount Disc Diffuser

The EDI FlexAir Pro® Disc Fine Bubble Diffuser offers higher mechanical integrity and installation strength than traditional threaded disc units. The mechanical saddle, made from fiberglass-reinforced polypropylene, allows for easy installation on a variety of pipe materials, adapting the system for installation on deep tanks or industrial wastewater treatment plants.

Material Features

- Available in standard 9” (230 mm) and 12” (300 mm) diameters.
- Glass-filled Polypropylene (GFPP) body provides superiror chemical, thermal, and UV resistance.
- The ISM is easy to install and maintain and mounts on any pipe material, including PVC, ABS, CPVC, and stainless steel.
- The ISM includes a KlicLoc™ retainer system for positive mechanical lock.
- 9” disc available to fit 3”. 4”, 90 mm, and 110 mm pipe sizes; 12” disc available to fit 3” and 90 mm pipe sizes.
- Multiple perforations available for improved oxygen transfer efficiency and air handling performance.
- The triple-check valve design prevents liquid or solids from entering the air feed piping without moving parts.
- Patented EZ-Seal™ allows for rapid membrane installation.

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Model and Perforation	DC09 Nano	DC09 Micro	DC09 High-Cap	DC12 Nano	DC12 Micro	DC12 High-Cap
Typical Airflow	0.5-1.2 scfm 0.8-3.8 m^3n/h	0.5-3.0 scfm 0.8-4.8 m^3n/h	0.5-5.0 scfm 0.8-7.9 m^3n/h	0.5-2.0 scfm 0.8-6.3 m^3n/h	0.5-5.0 scfm 0.8-7.9 m^3n/h	0.5-9.0 scfm 0.8-14.3 m^3n/h
Maximum Airflow	2.4 scfm 3.8 m^3n/h	6.0 scfm 9.5 m^3n/h	10.0 scfm 15.8 m^3n/h	4.0 scfm 6.3 m^3n/h	10.0 scfm 15.8 m^3n/h	18.0 scfm 28.5 m^3n/h
Overall Diameter	10.7 in 273.0 mm	10.7 in 273.0 mm	10.7 in 273.0 mm	13.2 in 336.0 mm	13.2 in 336.0 mm	13.2 in 336.0 mm
Active Surface Area	0.41 ft^2 0.038 m^2	0.41 ft^2 0.038 m^2	0.41 ft^2 0.038 m^2	0.64 ft^2 0.059 m^2	0.64 ft^2 0.059 m^2	0.64 ft^2 0.059 m^2
Dry Weight	1.9 lb 0.85 kg	1.9 lb 0.85 kg	1.9 lb 0.85 kg	2.6 lb 1.2 kg	2.6 lb 1.2 kg	2.6 lb 1.2 kg

NOTES:

- Values listed in the specification chart are per disc, unless noted otherwise.
- Optimum oxygen transfer efficiency is achieved when operating in typical airflow rane.
- Operating below the Typical Airflow range will lead to poor uniformity and higher risk of fouling.
- Operating at or above the Maxium Airflow for extended periods may lead to worse SOTE and decreased membrane longevity.