



## SPECIFICATION

# FlexAIR<sup>®</sup> PRO MAGNUM<sup>™</sup>

## Fine-Bubble Flexible Tube Membrane Diffuser

The EDI FlexAir<sup>®</sup> Pro Magnum<sup>™</sup> diffuser is a fine pore, flexible membrane diffuser that offers a superior design for optimal aeration capacity. It features a full circumferential perforated area and can be configured with standard or high-capacity perforations for increased aeration and mixing capacity and maximum SOTE. The diffuser is ideally suited for digesters and standard biological treatments that require efficient mixing and good oxygen transfer at lower operational costs.

## Material Features

- Efficient geometry supports medium to high-density installations, with 30% to 65% floor coverage, for improved mixing or SOTE efficiency.
- Precision perforations for Standard and High-Capacity options, engineered for optimized air handling, reduced operating pressure requirements, or maximum oxygen transfer efficiency.
- Easily replaceable premium quality membranes available in EPDM, Polyurethane (PU), High Temperature PU (HTPU), and Armor Coating, for reduced fouling and minimum maintenance.
- Backflow protection with triple check-valve design that prevents entry of liquid/solids into piping.
- Durable ABS saddle and PVC body construction for maximum chemical and UV resistance; optional CPVC body for maximum temperature resistance.
- SDM Saddle mounts to 4", 6", 8" (110 mm and 160 mm) round shaped air piping.



Model & Perforation	MG3-502 Micro	MG3-502 High-Cap	MG3-1003 Micro	MG3-1003 High-Cap	MG3-2006 Micro	MG3-2006 High-Cap
<b>Typical Airflow (per Tube)</b>	2-6 scfm 3-10 m <sup>3</sup> /h	5-14 scfm 8-22 m <sup>3</sup> /h	4-13 scfm 6-21 m <sup>3</sup> /h	10-28 scfm 16-44 m <sup>3</sup> /h	8-26 scfm 13-41 m <sup>3</sup> /h	20-56 scfm 32-89 m <sup>3</sup> /h
<b>Maximum Airflow (per Tube)</b>	10 scfm 16 m <sup>3</sup> /h	18 scfm 29 m <sup>3</sup> /h	20 scfm 32 m <sup>3</sup> /h	35 scfm 55 m <sup>3</sup> /h	40 scfm 63 m <sup>3</sup> /h	70 scfm 111 m <sup>3</sup> /h
<b>Duplex Overall Length</b>	54.8 in 1391.9 mm	54.8 in 1391.9 mm	94.3 in 2400 mm	94.3 in 2400 mm	192 in 4880 mm	192 in 4880 mm
<b>Operational Buoyancy</b>	5.8 lb 2.6 kg	5.8 lb 2.6 kg	6.3 lb 2.9 kg	6.3 lb 2.9 kg	36.7 lb 16.6 kg	36.7 lb 16.6 kg
<b>Dry Weight</b>	7.1 lb 3.2 kg	7.1 lb 3.2 kg	11.0 lb 5.0 kg	11.0 lb 5.0 kg	23.0 lb 10.4 kg	23.0 lb 10.4 kg
<b>Active Surface Area</b>	1.25 ft <sup>2</sup> 0.12 m <sup>2</sup>	1.25 ft <sup>2</sup> 0.12 m <sup>2</sup>	2.64 ft <sup>2</sup> 0.25 m <sup>2</sup>	2.64 ft <sup>2</sup> 0.25 m <sup>2</sup>	5.28 ft <sup>2</sup> 0.49 m <sup>2</sup>	5.28 ft <sup>2</sup> 0.49 m <sup>2</sup>

#### NOTES:

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

## Working with EDI is easy:



**SPECIFICATION: FlexAir Pro Magnum**  
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