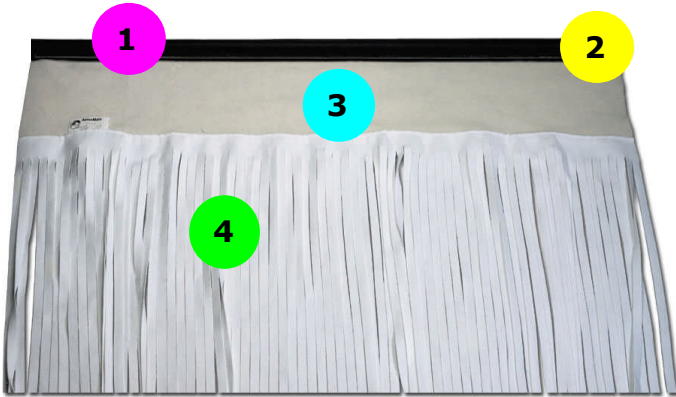


# AquaMats®

*for Biofiltration*

## Biofiltration Model 15000, 15001, 15004 and 15006 2005 Specifications Sheet



### Key Product Components:

1. Flotation Sleeve – Black coated woven polyethylene highly UV resistant (includes polyethylene float tube).
2. Float Sleeve Grommets - Stainless steel grommets at each end of units. Multi unit interconnection forms the AquaMat bioarrays.
3. Upper Biphasic Layer – Open fiber matrix maximizes particulate precipitation.
4. Lower Biphasic Layer – Constrained fiber matrix to provide microaerophylic space for maximum nitrogen cycle treatment.

Specifications	Model 15000	Model 15001	Model 15004	Model 15006
Width	72 inches (1.8 meters)	72 inches (1.8 meters)	72 inches (1.8 meters)	72 inches (1.8 meters)
Length	49 Inches (1.245 meters)	62 Inches (1.58 meters)	116 inches (3.0 meters)	195 inches (4.953 meters)
Nominal Surface Area	49 sq. ft. (4.552 sq. m.)	68 sq. ft. (6.32 sq. m.)	115.9 sq. ft. (10.78 sq. m.)	195 sq. ft. (18.12 sq. m.)
Effective Surface Area	5,016 sq. ft. (466 sq. m.)	6,674 sq. ft. (620 sq. m.)	13,060 sq. ft. (1,213 sq. m.)	23,640 sq. ft. (2,196 sq. m.)
Warranty	5+ years minimum	5+ years minimum	5+ years minimum	5+ years minimum

### Key Product Benefits:

- Biphasic (Two-Sided) Surfaces Provide both Nitrification and Denitrification. Most surface area products principally support only nitrification activity because they lack microaerophylic space. This in turn allows nitrate build up because of the incomplete conversion of nitrogen. AquaMats® media provides a unique blend of small and large pore size surfaces to support an appropriate balance of nitrifiers and denitrifiers for complete aerobic and anaerobic nitrogen metabolism.
- Environmentally Safe. The polymers used in AquaMats® are all low density, condensed copolymers of polyethylene. These materials are extremely inert and have been successfully tested for long-term durability to EPA UV irradiation accelerated degradation standards. Additional LC testing using a series of alcohol and aldehyde extractants also indicated no leachate. No plasticizers are used in the manufacture of the fiber matrix.
- Low Maintenance. The AquaMats® polymer matrix is specifically designed to feature a three dimensional fiber matrix that provides high surface area on the fibers themselves and secondary pore volume to facilitate bacterial colonization while at the same time discouraging excess biofilm development. The high surface tension of the materials assures sloughing of mature biofilms and recolonization so that the cultures remain in log phase growth. This in turn enhances the mass transfer rate of nutrients to the bacterial population and the diffusion of metabolic wastes away from the biofilm.

### Key Product Applications:

- Municipal wastewater treatment;
- Agricultural and animal industry water wastewater control;
- Industrial wastewater treatment and constructed wetlands for nutrient control in sensitive watershed areas.

**For more information, please contact:**

Distributed by:	Manufactured by:
	Meridian Aquatic Technology, LLC 4061 Powder Mill Road – Suite 100 Calverton, MD 20705
	Phone: 301-937-1240      Fax: 301-595-9361
	info@aquamats-process.com www.aquamats-process.com

AquaMats® for Biofiltration are manufactured under US Patents No.'s 6,230,654, 6,244,218 and Patents Pending Worldwide.