

Aqua-Ponic™



Harness the power of nature with sustainable, biological stormwater treatment. Deploy a living solution that restores water quality while supporting resilient green infrastructure.



BIOFILTRATION FOR SUSTAINABLE STORMWATER

Aqua-Ponic™ is a modular, vegetated biofiltration system that treats stormwater runoff through a natural process of filtration, plant uptake, and microbial action. Designed for below-grade installations, the system reduces total suspended solids (TSS), nutrients, metals, and hydrocarbons.

Ideal for GI, LID, green streets, and retrofit projects, Aqua-Ponic provides an attractive and functional solution that supports stormwater quality goals while blending into the surrounding landscape.

Aqua-Ponic delivers powerful benefits:

- **Natural Filtration:** Engineered media and vegetation remove stormwater pollutants via sorption, filtration, and biological uptake.
- **Green Infrastructure Support:** Promotes plant growth, biodiversity, and urban resilience.
- **Integrated Design:** Compatible with curb-cut streets, planters, tree box alternative, and stormwater bump-outs.
- **Flexible Sizing:** Custom-built units sized to fit site constraints and designed to meet regulatory flow and volume requirements.
- **Factory-Built:** Preassembled with engineered media, capillary wicks, and pea gravel for quick deployment.
- **Sustainable:** Natural processes, no chemicals or mechanical parts.

KEY FEATURES

- ✓ **60% better performance than typical biofiltration**
- ✓ **2X smaller size than competitors**
- ✓ **60-70% lighter than concrete vaults**
- ✓ **Vegetated biofiltration**
- ✓ **Nutrient & TSS removal**
- ✓ **Sustainable & aesthetic**
- ✓ **Prepackaged and fast install**
- ✓ **Maintenance friendly**
- ✓ **LID & green infrastructure**
- ✓ **Made in USA**

- **Regulatory Acceptance:** Meets many state and municipal biofiltration requirements and verified for performance by WADOE (GULD), NJDEP/NJCAT, and other state agencies.
- **Easy to Maintain:** Surface-level maintenance with routine plant care and simple sediment removal.

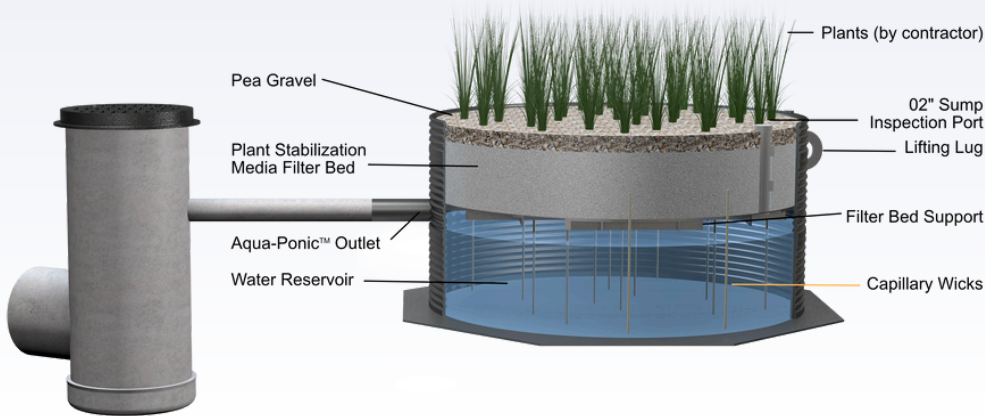
PRODUCT SPECIFICATIONS

Aqua-Ponic biofiltration systems are available in round configurations ranging from 2 to 13 feet in diameter. Each unit can treat between 0.05 and 2.0 cubic feet per second (cfs), depending on its treatment surface area.

Each preassembled system includes:

- Engineered filter media, pre-loaded for optimal treatment
- Capillary wicks and a pea gravel layer for consistent flow and drainage
- Integrated outlet structure for controlled discharge

DESIGNED FOR PERFORMANCE



SUPPORT

Inspection & Maintenance

Access complete I&M manuals and seasonal maintenance guides, including plant health checklists, debris removal tips, and replanting protocols.

Komline-AquaShield is part of the Komline family of end-to-end separation technologies used by municipal water, agricultural, and manufacturing industries.



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