CONTECH®
ENGINEERED SOLUTIONS
A QUIKRETE® COMPANY

Water Polisher Up-Flow Media Filter

The experts you need to solve your stormwater challenges

Contech is the leader in stormwater solutions, helping engineers, contractors and owners with infrastructure and land development projects throughout North America.

With our responsive team of stormwater experts, local regulatory expertise and flexible solutions, Contech is the trusted partner you can count on for stormwater management solutions.

Your Contech Team

STORMWATER CONSULTANT

It's my job to recommend the best solution to meet permitting requirements.

STORMWATER DESIGN ENGINEER

I work with consultants to design the best approved solution to meet your project's needs.

REGULATORY MANAGER

I understand the local stormwater regulations and what solutions will be approved.

SALES ENGINEER

I make sure our solutions meet the needs of the contractor during construction.

Contech is your partner in stormwater management solutions

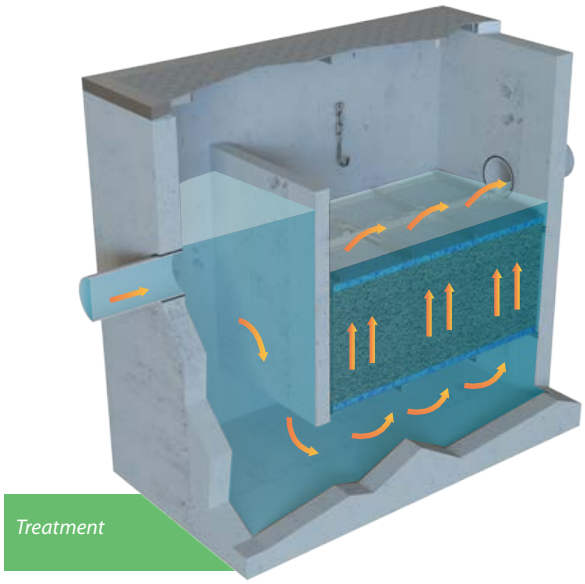
Water Polisher - An Advanced Stormwater Treatment Solution

This efficient up-flow media filter with built-in pretreatment removes large-to-fine sediments and nutrients from stormwater runoff.

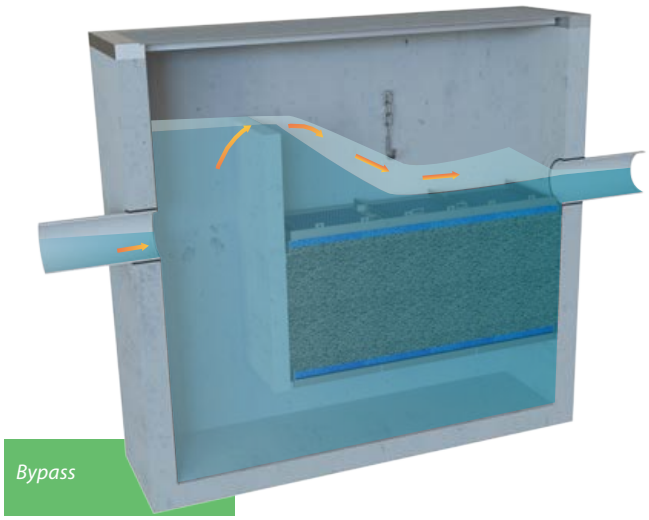
The Contech Water Polisher is an advanced stormwater treatment system that utilizes an up-flow media filter bed with an integrated internal bypass. This patented design removes large-to-fine sediment and nutrients from stormwater runoff.

The up-flow filter assembly is constructed for superior durability and longevity, and is a favored solution among civil engineers, municipalities, and developers for its ease of maintenance and integrated internal bypass.

How the Water Polisher Works



As water enters the system, head pressure builds behind the internal weir and sediment settles in the sump. Water then passes under the weir wall into the up-flow filter chamber. As water rises, it is forced through the media filtration bed for primary treatment before exiting the system.



During peak flows, the internal weir allows water to bypass treatment, eliminating the need for an external bypass or junction structure.

Water Polisher Features and Benefits

FEATURE	BENEFIT
Two-stage treatment system: separation and media filtration	Enhanced TSS removal while extending the life of the filter bed while providing superior pollutant removal
Reusable media	Media can be backwashed and reused, providing long-term savings on maintenance
Easy access doors on top of filtration bed	Ease of maintenance

APPLICATION TIPS

- Ideal for sites with limited hydraulic drop
- Great solution for nitrogen and phosphorus removal

Water Polisher Applications

The Water Polisher is commonly used in the following stormwater applications:

- Stormwater quality control – trash, debris, sediment, and nutrient removal
- Urban retrofit and redevelopment
- Pretreatment for reuse systems and detention/ infiltration systems

Water Polisher Performance Test Results

POLLUTANT OF CONCERN	% REMOVAL EFFICIENCY
Total Suspended Solids (TSS)	92.8%
Total Phosphorus (TP)	80.0%
Total Nitrogen (TN)	50.0%
Total Copper (TCu)	73.5%
Total Zinc (TZn)	84.0%

Sources:
Pinellas County, FL - Third Party Independent Field Testing, 2023

Water Polisher System Sizing

MODEL #	TREATMENT CAPACITY (CFS)[1]
WP-4-4	0.09
WP-4-8	0.21
WP-6-12	0.52
WP-6-15	0.68
WP-8-14	0.83

1. Based on a loading rate of 4 gpm/sq ft media surface area.

Water Polisher Installation

Installation of the Water Polisher is quick and easy. The system consists of a base section with preinstalled internal components and pipe openings, optional riser sections, a top slab, risers extending access to finished grade, and access covers. Installation of the system follows the same procedures as a standard precast vault installation.

Shallow sump requires minimal excavation beneath the structure. Internal components are typically installed prior to delivery. Larger units may have internal components installed on site.

Units are frequently installed within a one-hour set time.

Water Polisher Maintenance

Every manufactured filtration device will eventually need routine maintenance. The question is how often and how much it will cost. Proper evaluation of long-term maintenance costs should be a consideration when selecting a manufactured treatment device.

- Remove floating debris, standing water, and sediment using a vacuum truck.
- Backflush the filter media with a pressure washer.
- If media replacement is required, the up-flow filter features easy-access doors to facilitate removal. Spent media can be extracted using a vacuum truck.
- Install the replacement media by lowering it into the system.

Contech maintains a network of Certified Maintenance Providers who offer service for the Water Polisher and other stormwater best management practices (BMPs).

The Water Polisher is accessible and can be maintained from the finished grade.

A partner you can rely on

PIPE SOLUTIONS

STORMWATER SOLUTIONS

STRUCTURE SOLUTIONS

Few companies offer the wide range of high-quality stormwater resources you can find with us — state-of-the-art products, decades of expertise, and all the maintenance support you need to operate your system cost-effectively.

MANUFACTURING AMERICA'S INFRASTRUCTURE™

We manufacture engineered solutions for complex civil infrastructure challenges and create lasting value for project stakeholders through unrivaled expertise, support and workmanship.

To us, it's about being a trusted partner for project owners, engineers and customers while doing meaningful work that helps build our communities.

TAKE THE NEXT STEP

For more information: www.ContechES.com

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800-338-1122 | www.ContechES.com

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