

GRAYWORKS® Graywater Treatment and Reuse Process

1 Screening
Lint and hair are removed through a self-cleaning screen and flushed to sewer.

Biological Treatment

Pollutants are biologically degraded by microorganisms living on the patented surface-active treatment media in an aerated tank.

2

3

Filtration + UV

An application specific filtration system removes suspended solids and UV disinfection eliminates remaining pathogens.

4

Chlorine + Dye

Dosing pumps, chemical storage, and spill containment are provided in the integral chemical cabinet to accommodate optional chlorine and dye injection.



Modular design reduces engineering, construction, and total project cost.



Robust biological communities naturally respond to variations in graywater flow and strength.



All treatment components and instrumentation are in a lockable enclosure allowing secure installation in public areas.



Meets Living Building Challenge Red List and Water Petal Criteria and supports LEED credits.



No PVC parts or piping is used to protect worker and environmental health.



All design and manufacturing is done in the US assuring high quality and timely project delivery.

GRAYWORKS® Graywater Treatment and Reuse Systems

The GRAYWORKS treatment and reuse product line integrates industry leading biological treatment with modular scalable design. The GRAYWORKS product line is designed for commercial facilities such as mixed use developments, resorts, dorms, corporate campuses, and office buildings. For our clients the GRAYWORKS system reduces water use, saves money and doesn't break their budget or stress their facilities staff. System models are designed for a range of sizes and optimized for either subsurface irrigation or reuse with a higher risk of public contact such as toilet flushing and surface irrigation by using different final filtration systems. Systems can be designed to incorporate additional water sources such as rainwater, stormwater, condensate, foundation drainage, and cooling tower blowdown. Reclaimed water pumping and storage systems and a range of water quality instrumentation can also be included to create a total modular water reuse system.

Application Specific Filtration



Media Filtration

Cost effective media filtration is a proven technology that provides reliable treatment for many applications.



Ceramic Filtration

Ceramic filters are the most robust ultra-filters on the market resulting in low life cycle costs than other ultrafiltration systems. These systems are utilized in applications requiring the most stringent standards.



GRAYWORKS Log₁₀ Pathogen Reduction Targets¹

Graywater reuse systems need to protect public health while reducing our water footprint. Early industry standards such as NSF-350 do not adequately quantify public health risk. GRAYWORKS systems meet the most stringent current reuse standards. A 1-log₁₀ reduction equates 90% pathogen removal, 2-log₁₀ reduction 99%, 3-log₁₀ 99.9% etc.

	Subsurface Irrigation		Surface Irrigation			Toilet Flushing		
	NSF-350 (I)	GrayWorks Media	NSF-350	WE&RF ¹	GrayWorks Ceramic	NSF-350	WE&RF ¹	GrayWorks Ceramic
Enteric Virus	No Regulation	3.5	No Regulation	5.5	7.5	No Regulation	6	8.5
Parasitic Protozoa	No Regulation	6.5	No Regulation	4.5	10.5	No Regulation	4.5	10.5
Enteric Bacteria	No Regulation	6.0	2-3	3.5	11	2-3	3.5	13.5

¹ I. Water Environment & Reuse Foundation Risk-Based Framework for the Development of Public Health Guidance for Decentralized Non-Potable Water Systems (2017).

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