AquaPRS™

PFAS Removal System



AQUA-AEROBIC SYSTEMS, INC.
A Metawater Company

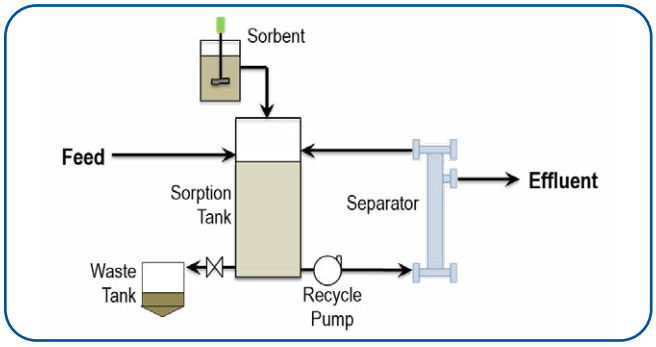
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PFAS Removal System

The AquaPRS™ PFAS Removal System utilizes a unique sorbent suspension to adsorb Per- and polyfluoroalkyl substances (PFAS) and a robust separator to extract clean water from the suspension. The turbulent adsorbent slurry prevents biofouling and controls solids and mineral buildup. Additionally, the adsorbent material is specially engineered to adsorb much more PFAS than can be adsorbed by the same amount of other adsorbents or ion-exchange resins, resulting in significantly less life cycle costs. The process is completely automated, including replacement of the adsorbent, and allows parameter adjustments in response to varying influent concentrations of PFAS. Single stage operation removes PFAS/PFOA and other regulated PFAS contaminants to levels below EPA standards with low to moderate influent levels. For high PFAS concentrations or difficult influent water characteristics, a two-stage configuration / operation can achieve effluent levels to meet EPA effluent standards.

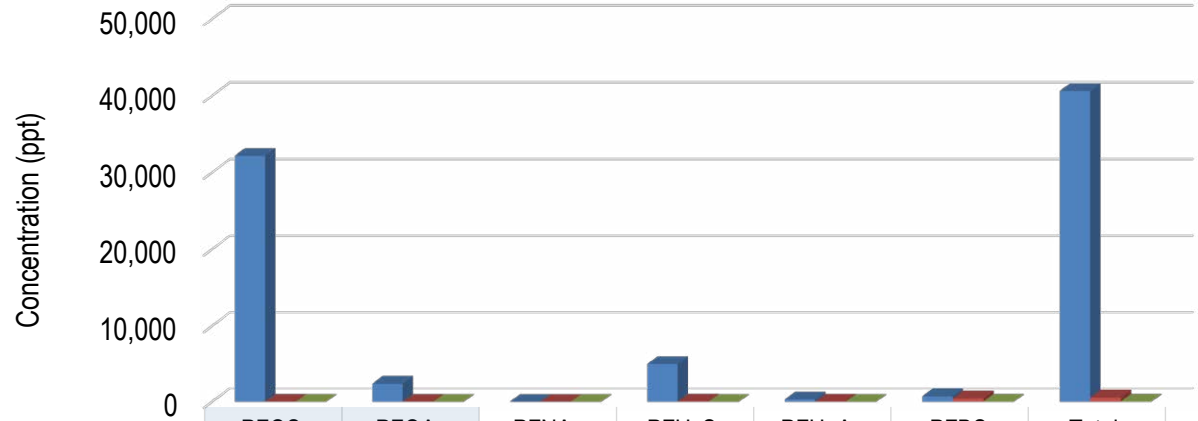
Advantages

- Fouling and scaling controlled by slurried adsorbent
- Adsorption rates are significantly higher than granular activated carbon (GAC) or ion-exchange resin (IX Resin)
- Waste volumes are substantially lower when compared to GAC or IX Resin
- Enhanced removal of short-chain PFAS in a single process
- Process is completely automated, including adsorbent replacement
- Minimal operator attention needed
- Significantly higher effluent quality compared to other technologies through a wide range of influent PFAS levels, from low to 40,000+ ppt



AquaPRS™ Process Flow Diagram

Remediation Application: UCMR3 Compound Removal Series



	PFOS	PFOA	PFNA	PFHxS	PFHpA	PFBS	Total UCMR3
Influent	32,194	2,391	0	4,996	314	736	40,630
Effluent Stage 1	22	15	0	52	37	461	586
Effluent Stage 2	6	0	0	0	1	18	25

DOD Remediation Requirements: <70 ppt of PFOS/PFOA

- Single Stage Removal to <70 ppt Combined PFOS/PFOA
- Two Stage Removal to <70 ppt Combined UCMR3 Compounds

PROTECTING THE WORLD'S WATER.

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www.aqua-aerobic.com
6306 N. Alpine Road, Loves Park, IL 61111-7655
p 815.654.2501 | f 815.654.2508 | solutions@aqua-aerobic.com

The information contained herein relative to data, dimensions and recommendations as to size, power and assembly are for purpose of estimation only. These values should not be assumed to be universally applicable to specific design problems. Particular designs, installations and plants may call for specific requirements. Consult Aqua-Aerobic Systems, Inc. for exact recommendations or specific needs. Patents Apply.

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