AQUA-AEROBIC SYSTEMS, INC.
A Metawater Company

AquaPRS™

PFAS Removal System

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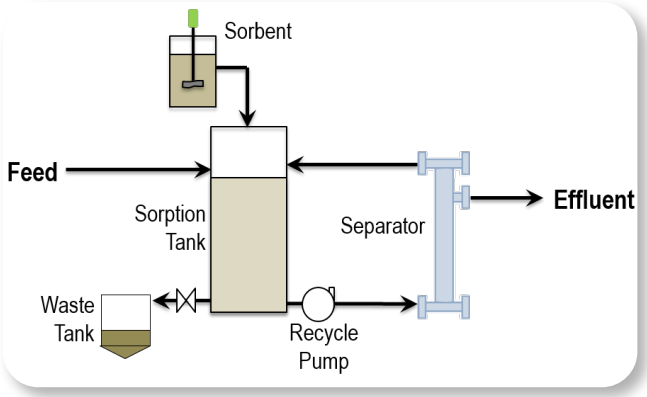
The AquaPRS™ PFAS Removal System utilizes a unique sorbent suspension to adsorb pre- and polyfluoroalkyl substances (PFAS) and a robust separator to extract clean water from the suspension. The sorbent material is specially engineered to adsorb much more PFAS than can be adsorbed by the same amount of other sorbents or ion-exchange resins, resulting in significantly less life cycle costs. The process is completely automated, including replacement of the sorbent, and allows parameter adjustments in response to varying influent concentrations of PFAS and other contaminants; assuring the sorbent does not foul or scale before it is fully saturated with PFAS.

Advantages

- 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
- Sorbent concentration can respond to varying influent PFAS levels to extend sorbent replacement intervals
- Process is completely automated, including sorbent replacement
- System parameters can be adjusted to minimize sorbent fouling/scaling
- Minimal operator attention needed
- Enhanced removal of short-chain PFAS
- Significantly higher effluent quality than other technologies



AquaPRS™ Process Flow Diagram

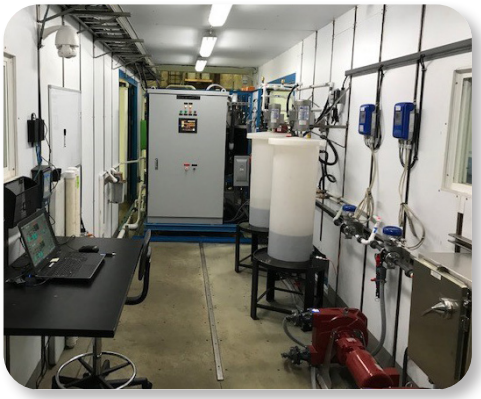
Typical Applications

- Groundwater
- Remediation Sites
- Surface Water
- Wastewater
- Reverse Osmosis Concentrate
- High-Salinity Brackish Water

AquaPRS™ PT-1 System

Operational Description

During operation of the AquaPRS™ system, the feed pump transfers contaminated water into the sorption tank where PFAS is removed from the liquid and adsorbed onto the AquaPR-206™ sorbent. A recycle pump continuously circulates the sorbent and treated liquid into the separator unit. Sorbent is retained in the separator, allowing purified water to flow continuously into the effluent line. Once the sorbent is fully saturated with PFAS, it is automatically concentrated and wasted from the system. Without operator attention, the sorbent is replenished and continuous operation resumes.



AquaPRS™ PT-2 System

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