# PFAS Treatment Systems

## Why Sentinel PFAS Treatment Systems

### Built for Long-Term, Permanent Installations

Sentinel PFAS treatment systems are suited for medium to large municipal or industrial systems where durability and service life are priorities. Steel construction supports continuous operation, outdoor placement, and long-term integration into existing treatment infrastructure.

### Scalable to a Wide Range of Flow Rates

Steel vessels can be sized for everything from single municipal wells to surface water treatment facilities. Their larger diameter and higher operating pressure capabilities support both current PFAS removal needs and future system expansion without redesign.


### Flexible Media and Performance Configurations

Steel vessel systems can operate with GAC, ion exchange, novel, or blended medias, and can be arranged in lead/lag, parallel, or staged treatment trains. This flexibility allows treatment strategies to be optimized for site-specific influent concentrations, regulatory targets, and operating cost goals.

### Supports High Media Utilization with Roughing Filter Configurations

Systems can be configured using Sentinel's roughing filter (lead/mid/lag) approach, which increases usable media capacity and extends change-out intervals. This reduces carbon waste, lowers O&M frequency, and helps maintain consistent PFAS removal performance over time.

Sentinel
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**www.sentinel-h2o.com | 888-811-PFAS**
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# PFAS Treatment Systems

| Feature | Benefit |
|---|---|
| **3′ to 12′ vessel diameters** | Scales from single-well municipal systems to full treatment plant applications without redesign. |
| **Carbon steel shell with 304L stainless wetted internals** | Corrosion-resistant interior surfaces support long service life across a wide range of raw water conditions. |
| **Standard drinking water pressure ratings, including ASME-stamped options** | Compatible with municipal system operating pressures and hydrant flush hydraulic loads. |
| **Supports GAC, ion exchange, novel, and blended media** | Allows treatment strategy to be optimized for influent PFAS profile and life-cycle cost while allowing flexibility to change media type later. |
| **Lead/Lag or Roughing Filter (3-vessel) treatment configurations** | Increases usable media fraction (e.g., ~45% → >80%), extending time between media change-outs and reducing waste. |
| **Optional weatherization and containerized systems** | Enables outdoor or remote operation with freeze protection, site security, and simplified installation. |
| **Fork-compatible base or concrete pad mounting** | Simplifies installation and allows for full-vessel swaps. |
| **Flexible operator support model** | Sentinel can operate the system directly, or train local staff for independent operation. |
| **Media-agnostic** | Supports GAC, IX, novel, and blended media. Allows tailoring media strategy to water quality and life-cycle cost goals. |
| **Operator flexibility** | Sentinel can operate the system or train local staff to run it independently. |

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