



FILTRATION SOLUTIONS FOR

DATA CENTERS



Schroeder
INDUSTRIES
Advanced Fluid Conditioning Solutions®



Contamination is the hidden threat undermining critical data center systems.

Thermal management is one of the greatest challenges facing data centers.

The processing power packed into data centers generates an enormous amount of heat! Overheating can damage servers and computing components, resulting in data losses and major service interruptions.

Liquid cooling systems are highly effective in combating overheating, but have their own critical vulnerabilities.



Contamination can damage or disable the cooling system, exposing the data center to overheating.



Bag and Cartridge Filters

Protect your liquid cooling system with solutions from Schroeder Industries.

- ◆ **Primary Loop Protection** – Automatic self-cleaning filters and strainers for facility water and make-up systems
- ◆ **CDU & Secondary Loop Filtration** – High-efficiency cartridge and inline filtration to protect cold plates, microchannels, and heat exchangers
- ◆ **Water/Glycol Conditioning** – Particle control, air removal, and fluid cleanliness management for closed-loop systems
- ◆ **Side-Stream Filtration** – Continuous contaminant removal to maintain long-term fluid quality
- ◆ **Commissioning & Flushing Solutions** – Temporary filtration and high-flow clean-up to meet owner cleanliness specifications (Microsoft, Meta, hyperscale standards)
- ◆ **Monitoring & Diagnostics** – Differential pressure, condition monitoring, and predictive maintenance support



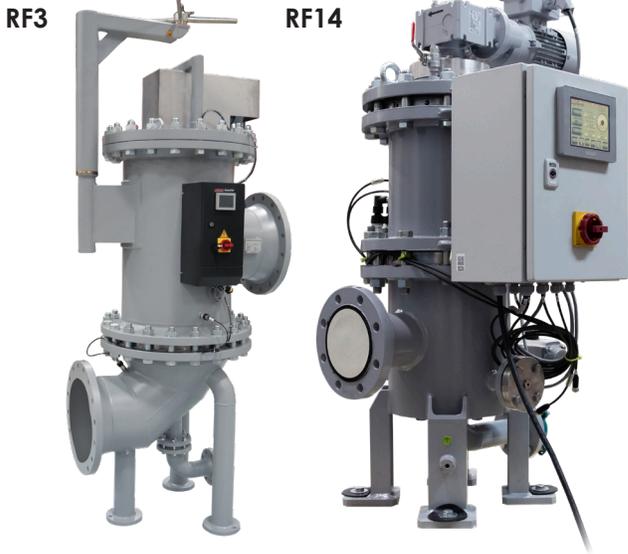
**Basket Strainers
& Duplex Basket Strainers**

- ◆ Schroeder basket strainers provide robust coarse filtration for data center cooling and process water systems, protecting pumps, heat exchangers, and downstream filtration from large debris.
- ◆ Large dirt-holding capacity, low pressure drop, and easy cleanout design allows reliable operation and quick maintenance with minimal system downtime.



PLF High Flow Filter

- ◆ PLF high-flow cartridge filters provide compact, high-capacity particulate removal down to 1 micron for data-center cooling loops, delivering large flow rates with fewer elements and low pressure drop.
- ◆ The design reduces housing size, simplifies maintenance, and protects heat exchangers and cold plates while lowering total filtration cost.



AutoFilt® Automatic Backwash Filters

- ◆ Automatic backwash filters provide continuous, high-flow filtration down to 10 micron for data-center cooling loops, removing particulate without interrupting flow or requiring consumable filter elements.
- ◆ Designed for continuous operation for intake, water, cooling tower and loops, emulsions, glycol – all low viscosity fluids.
- ◆ AutoFilt® series reduces maintenance, protect heat exchangers and cold plates, and deliver reliable long-term operation with low operating cost and minimal pressure loss.



Mission-critical backup power is essential for continuous, 24/7 data center uptime.

Data centers depend on a steady, uninterrupted power supply to maintain mission-critical, always-on operations.

Any failure of the primary power source can result in immediate and costly downtime—disrupting services, violating SLAs, and driving significant financial and reputational losses. As a result, backup power generation is a foundational element of data center design to provide reliable continuity during grid outages.

However, like cooling infrastructure and other fluid-dependent systems, backup generators are vulnerable to fuel contamination, which can degrade performance or cause failure at the moment they are needed most.

To ensure backup generators operate reliably and efficiently under emergency conditions, robust fuel filtration is essential.



GHCFD 25-50 gpm | 150psi

- ◆ **GeoSeal® High-Flow Coalescing Filter** tackles particulate filtration and water removal for bulk fuel storage.
- ◆ Dual filter housings allow continuous operation during filter servicing, eliminating maintenance downtime.



BDFP 14 or 25 gpm

- ◆ **Bulk Diesel Filtration Panel** provides turnkey filtration for new and existing fuel storage systems.
- ◆ Combines powerful particulate and coalescing filtration with integrated motor/pump unit.



BDC 25 or 70 gpm

- ◆ **Bulk Diesel Cart** excels at kidney loop clean-up and single pass transfer of diesel fuel in larger storage tanks.
- ◆ Helps protect expensive, vital engine components against failures caused by contaminated fuel.

CONDITION MONITORING

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FCU1315

- ◆ Portable service unit that provides solid contamination and saturation readings for diesel fuel.
- ◆ Integrated pump and hoses with test point connectors allow operation in pressureless storage reservoirs.



Bottle Sampling

- ◆ Options range from basic contamination analysis to deeper insights into microbial growth, cold weather fuel performance, and other variables.
- ◆ Digital report management through Fluid Care Portal enables fluid condition trend analysis, expert recommendations, and more.

Schroeder Industries solutions are already seeing success in the field for data center protection!



Case Study: BDC Filtration, FCU1315 Prevent Startup Delays in Critical Backup Genset

A major data center site, recognizing that their backup genset diesel tanks were vulnerable to microbial growth due to infrequent usage, sought testing and diesel filtration solutions. Schroeder Industries stepped in to ensure that this vital backup power source remained ready to perform at a moment's notice!



FCU1315 provided real-time fluid condition monitoring.



BDC Filtration maintained optimal quality for stored diesel fuel.



Zero fuel-related startup delays with Schroeder solution implementation.



Protection from data center downtime costing \$140K-\$540K/hr.

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Data Center Solutions:

