



Filtration for

COOLING TOWERS

Market Overview



Side Stream Filtration

Optimized Heat Transfer

Maximized Cooling
System Life

Reduced Basin
Buildup

Automatic Twist
Flow Strainers

Turn-Key & Custom Solutions



Shield Your Cooling Tower and HVAC System

Arguably the biggest, and most valuable component in an industrial plant are the cooling towers. As the plant grinds away through daily operations and burns through process water, the cooling towers are there to do just that... cool down the water! Once the process water returns to a harmless temperature, the water is then returned through the plant and cycled again.

A pain point that we have discovered in cooling tower operation is the downtime needed for appropriate "after-the-fact" or "reactive" maintenance and tower cleaning measures. If not properly cared for, cooling towers pose a risk for an increased maintenance cost (i.e. the cost to clean the insides of contamination and debris), inefficiencies in your recirculation of process waters in your work space, and the risk of exposing dangerous toxins to your employees (such as legionella bacteria).

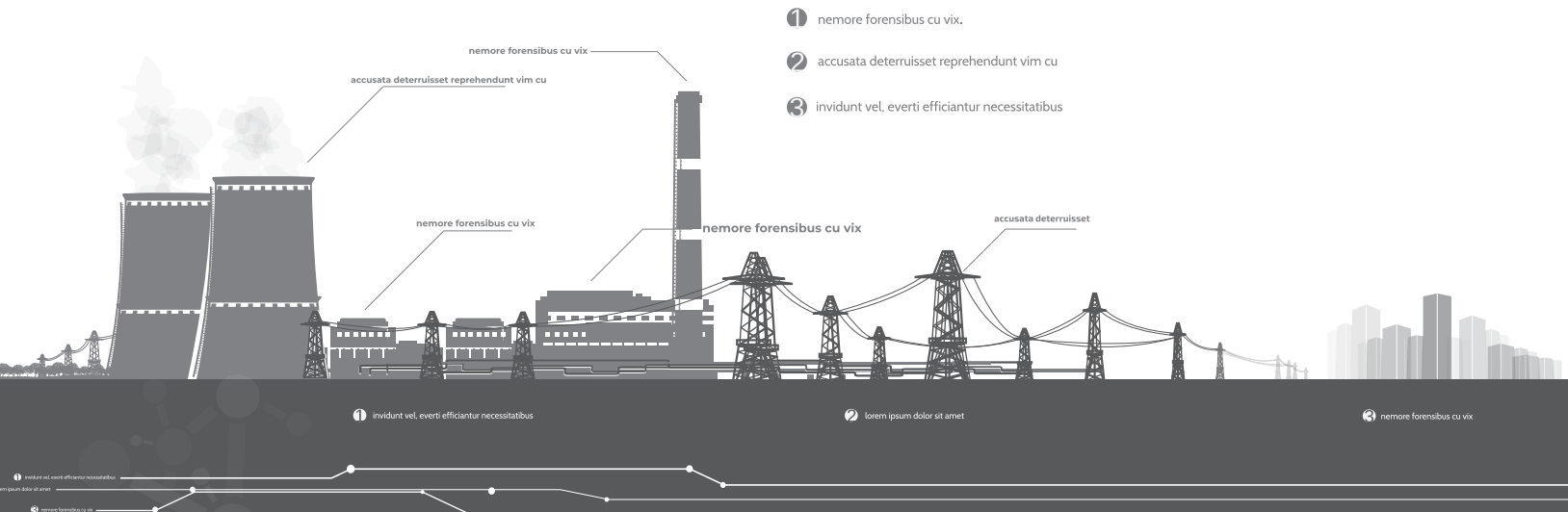
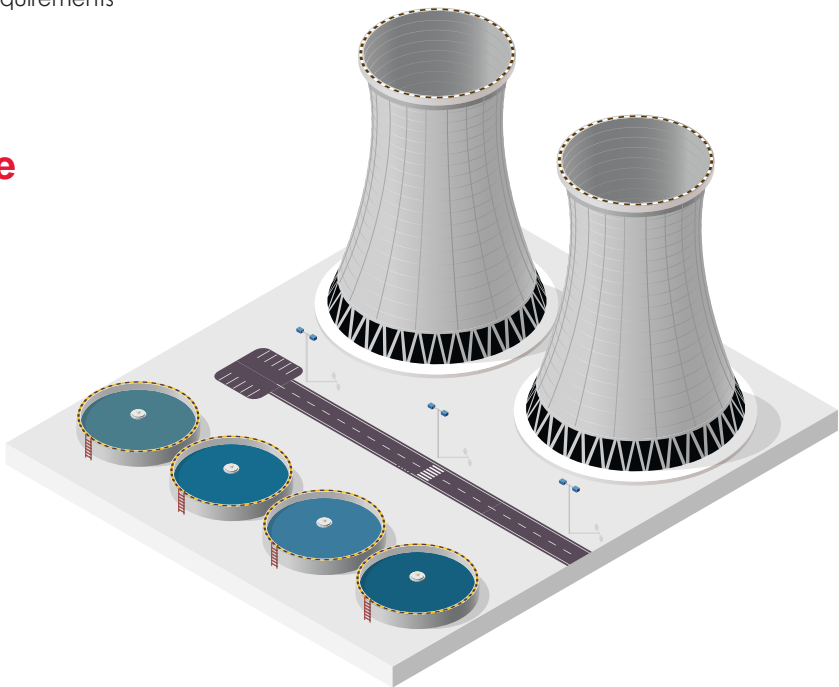
All of these issues can be resolved with strategically placed Schroeder Industries' filters (preventative vs. reactive).

With the numerous options and solutions offered by Schroeder, we need to make sure we understand your application so to offer the best solution for your cooling tower needs. **Factors to consider when choosing the best solution are:**

- The quality of the make-up water being added to the system
- The type of contaminants getting into the system
- The operational duty of objective of the system
- The current chemical treatment program
- The location of the cooling tower
- The maintenance and operating requirements
- Reduced biofouling and corrosion

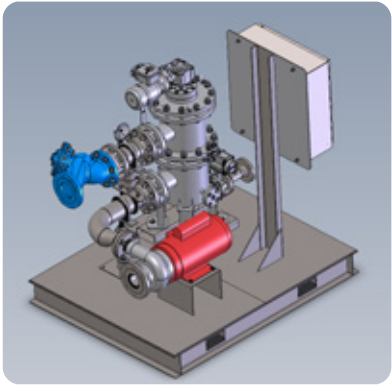
Cooling Towers - Headline

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We Have Products for: SIDE STREAM FILTRATION

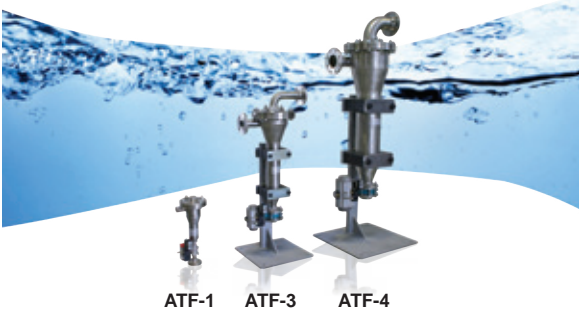
Separators, traditional media filters, automatic screen filters, micro filters (bag filters and cartridges) and high efficiency media filtration systems all offer an effective way of removing particles from the circulating water. Each of these filtration technologies offer differing benefits and associated costs. **Understanding your application and the available technologies is necessary in choosing the right side stream filter for your cooling tower needs:**



Cooling Tower Skid Package (CS Series)

Designed for side stream , kidney loop, or inline filtration

- ◆ 30-1000 gpm (125-3800 L/min) RF14
- ◆ Filtration ratings between 10 µm - 80 µm
- ◆ Hysuction technology is capable of handling both particulate and biological contamination.
- ◆ Customizable to fit customer needs



Automatic Twist Flow Strainer (ATF Series)

Designed for the filtration of solid particles from water or fluids similar to water

- ◆ 8-1760 gpm (33-6662 L/min) Automatic Twist Flow (ATF)
- ◆ Primarily chosen due to the technology being the least expensive in terms of equipment costs
- ◆ Filtration ratings between 200 µm - 3,000 µm, the ATF is particularly well suited for separating suspended solid particles, up to several grams per liter, from low viscosity fluids



AutoFilt® Automatic Self-Cleaning Strainer (RF Series)

Filters low viscosity fluids and self-cleans reusable conical strainer elements

- ◆ 20-33,000 gpm (840-125,000 L/min) Backflushing Filter AutoFilt® (RF3), 32 - 118 gpm (120 - 450 L/min) Backflushing Filter AutoFilt® (RF4), 748-18,480 gpm (170-4200 L/min) Backflushing Filter AutoFilt® (RF5), 83-33,022 gpm (21-12,501 L/min) Backflushing Filter AutoFilt® (RF7)
- ◆ Becoming the filter technology of choice for cooling tower filtration applications requiring removal of particles 80 µm or larger
- ◆ Filtration ratings between 25 µm - 3,000 µm, the RF Series ensures highly effective removal of particulate contamination from the process medium

Micro Filtration Systems

Bag Filters and Cartridges

Where demanding or specialized fine filtration is required, micro filtration systems are available. These systems achieve removal of both organic and inorganic particles down to 0.1 microns without requiring a backwash cycle. **Product offerings include:**

- ◆ Single, Multi, and Duplex Bag Housings
- ◆ Cartridge Housings
- ◆ Bag Type High Flow Filter Cartridges
- ◆ Competitor Element Crossovers





As an ISO 9001:2015 certified company, Schroeder Industries has been designing, manufacturing, and marketing a complete range of Advanced Fluid Conditioning Solutions® for over 70 years.

With products proudly manufactured in the United States, we DELIVER the fluid power industry's most technically advance and reliable liquid filtration products. Today our customers include a majority, if not all, of the world's largest OEM and MRO operations.

Markets Served



COOLING TOWERS

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The Need for Cooling Tower & HVAC Filtration

Now that you understand the need for cooling tower and HVAC filtration, we hope this brochure opened your eyes and convinced you to partner with filtration providers like Schroeder Industries.

Once the implementation of a Schroeder Process Filtration Solution has successfully taken place, we can guarantee the following benefits:

- Energy cost savings with optimized heat transfer capabilities
- Improved chemical treatment effectiveness
- Maximized life of cooling system and process equipment
- Minimized maintenance and unscheduled downtime
- Improved operating efficiencies
- Reduced buildup of organics, algae, silts, and iron oxide in the basin
- Reduced biofouling and corrosion

Don't go it alone!

There are millions of options to choose from when searching for a proper filtration partner. We want to make sure our customers pick the right solution and experience each and every benefit listed above. Contact us at sisales@schroederindustries.com if you think we have a solution that can help your cooling towers and HVAC systems function smoothly. Our Process Filtration experts are standing by to help you maintain a cleaner water system.

Most importantly, we want to see you purchase the level of filtration that will provide the greatest return on your investment. By partnering with Schroeder and allowing us to properly assess your need for a side stream filtration system, we can guarantee a large ROI for years to come. **Protect your facility, your investments, and your bottom line! Contact us today!**



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