

# SPIRAL WATER 850PVC COMMERCIAL FILTER SYSTEM

Spiral Water introduces the **Model 850PVC Commercial Filter System**, an advanced automated filtration solution for commercial buildings using non-traditional water—a critical component of modern building management and maintenance strategies.

Built around our patented and proven filtration technology, this fine filtration system enables commercial enterprises to better utilize non-traditional water sources for an array of applications while cost-effectively maintaining efficient and safe utility water systems.

This complete turnkey automated system includes Spiral Water's Model 850PVC filter and Commercial Systems Panel (CSP) that provides diagnostic and full operational controls.

*This completely turnkey and automated system incorporates our Model 850PVC filter.*



*Our CSP Control Panel provides diagnostic and full operational controls.*



## HOW IT WORKS

The **Spiral Water Model 850PVC Commercial Filter System** removes total suspended solids (TSS) up to 2,000 mg/l TSS (15% by volume), providing continuous 15-to-1500-micron filtration. In addition, these filters automatically manage upset conditions without the need of operator assistance, providing ease of operation and peace of mind.

During **normal operation**, sediment—which can include a variety of materials such as silt, decaying plant and animal matter, industrial wastes, and sewage—collects on the inner surface of the Spiral Water fine micron screen. The system's fully automated periodic cleaning removes these solids, keeping the water supply free of sediment. The SWT Model 850PVC Commercial Filter System can also monitor and manage higher solids in water supplies where **variable suspended solids loading occurs**.

## SWT's fine filtration technology

Using Spiral Water's Model 850PVC Commercial fine filtration system can **reduce water to waste by 90%** when compared to other standard backwash filters. It also offers several significant advantages, including:

- **Improved water quality:** Automatic fine filtration helps to remove small particles, sediments, and impurities from the water, ensuring that the water entering the building is clean and of high quality.
- **Protection for plumbing systems and water-using appliances:** By filtering out sediments and particulates, fine filtration systems help to prevent scale buildup, corrosion, and clogging that can damage plumbing systems.
- **Reduced maintenance costs:** Automatic fine filtration systems can result in significant labor and cost savings over time by reducing the frequency of manual cleaning and maintenance required for water tanks, plumbing, and related systems.
- **Consistency of water pressure:** Fine filtration helps to maintain consistent water pressure by preventing blockages in the water supply lines. This ensures that all parts of the building receive adequate water flow, improving overall functionality and comfort.

## Non-traditional water applications

Because of its unique design, the Model 850 Commercial Filter System is a **smart choice for water auxiliary sub-systems in buildings using non-traditional or water reuse strategies** and is ideal for treating an array of sources including city water and/or well water.

Non-traditional water sources, which are increasingly being utilized as part of integrated water management strategies to enhance sustainability and resilience against water scarcity, include:

- **Reclaimed or recycled water** that has been treated to remove contaminants to make it safe for specific uses, such as irrigation, industrial processes, and toilet flushing.
- **Gray water**, such as wastewater generated from domestic activities such as laundry, dishwashing, and bathing, that can be reused for irrigation or toilet flushing after minimal treatment.
- **Rainwater** that can be collected from roofs or other surfaces and stored for use in irrigation, toilet flushing, and even potable use after appropriate treatment.
- **Stormwater runoff** from rain or snow collected from surfaces like roofs, roads, and other impermeable surfaces, which can be treated and used for non-potable purposes such as irrigation and cooling.
- **Brackish water**, which has higher salinity than freshwater but lower than seawater and often requires desalination or other treatment to be used for potable or industrial purposes.

Commercial buildings often use non-traditional water sources for utility water to address situations such as:

- **Water scarcity or drought conditions** in regions where freshwater is scarce, and non-traditional sources such as reclaimed wastewater, stormwater, or gray water can supplement supply.
- **Cost reduction**, as using alternative water sources can reduce costs associated with purchasing potable water, particularly for non-potable uses like irrigation, cooling, and flushing toilets.
- **Sustainability initiatives**, as buildings aiming for green certifications (e.g., LEED) often incorporate non-traditional water sources to reduce their environmental footprint and demonstrate sustainable water management practices.
- **Regulatory compliance** in regions that mandate or incentivize the use of non-traditional water sources for specific purposes to reduce strain on freshwater supplies.

To learn more about the Spiral Water Model 850PVC Commercial Filter System, visit our [website](#).