





Spiral Water Technologies: the next generation automatic self-cleaning filters for advanced high solids separation & concentration



Left to right: SWT Models H1000 SMS, T1000 DPX and HSWR

Since 2015, Spiral Water filters have been providing new standards of performance for customers across an array of industries. Our advanced automatic self-cleaning filters:

- Are ideal for wastewater TSS/BOD removal and process bulk solids removal up to 15,000 mg/l TSS (15% by volume).
- Provide continuous 15 to 1500 micron filtration.
- Yield 99%+ water recovery.
- Offer optimized high solids filtration plus valuable waste management and dewatering benefits.
- Feature our proprietary one-pass filtration process with no backwash or cross flow.

And that's not all.

Spiral Water filters:

- Eliminate the need for large and expensive equipment. They are compact, modular, scalable and simple to maintain.
- Maximize the recovery of valuable products in food & beverage processing.
- Reduce CapEx and OpEx to deliver low Total Lifecycle Cost.
- Provide versatility. They can be used as a standalone product or to complement existing filtration technologies.
- And they are manufactured in the USA.

To learn more, visit our website.

Spiral Water Filters in Action

Wastewater generated by the food & beverage industry presents special challenges pretreatment to wastewater treatment plants. The high levels of Total Suspended Solids (TSS), Biological Oxygen Demand (BOD), and fats, oils and grease (FOG) are costly to treat, just to name one of the challenges.

While pretreatment to remove TSS and BOD can reduce overall treatment costs to the food processing plant, the ability to perform pretreatment in these plants has been limited due to the difficulty of reducing TSS and BOD in a small footprint and at a low cost. The good news is that Spiral Water filters can address these challenges.

Learn how Spiral Water filters helped a food processor in California solve these problems.



Advancing Filtration Challenges Since 2015

Spiral Water was founded in 2012 with a vision to develop a revolutionary automatic self-cleaning filter specifically designed to address the issue of high and

variable suspended solids removal across multiple industries. Just three years later, Spiral Water won **two major international awards** for our game-changing filter's innovation and business potential:

- The prestigious **Technology Idol Award**, conferred at the Global Water Summit upon the early-stage company whose technology could "change the future of the water market."
- The **BlueTech Research Innovation Award**, having been selected by market intelligence experts and chosen from finalists including established players in the water industry, for its likelihood to "transform the shape of the water industry of the future."

From California to the East Coast

Initially, Spiral Water was based in the San Francisco Bay area of California, USA. In 2018, the company was restructured with the goal of refining our existing products and technology and developing the next generation of our revolutionary filters.

Operations were consolidated at **new global headquarters** in Middlesex, New Jersey, located about half-way between New York and Philadelphia and home to numerous Fortune 500 companies and three universities. Our headquarters features a world class



laboratory for research & development, engineering and product testing, as well as state-of-the-art facilities for manufacturing and product assembly.

14 Patents and Counting

Spiral Water has been awarded **four main technology patents** for our breakthrough technology, covering **14 countries and regions** around the globe, including the USA, Canada, China, Japan, Europe and Australia.

Global Connections to Solve Filtration and Separation Challenges

Spiral Water established and maintains a global presence as a **member of the prestigious Institut de la Filtration et des Techniques Séparatives** (<u>IFTS –</u> <u>International Filter Testing Services</u>), an independently regulated, ISO 17025 accredited, laboratory and research center and the world's leading organization dedicated to solid-liquid separation. Based in the Aquitaine region of France, its operations include the <u>Roger Ben Aïm Test Center</u>, a **renowned research and experimentation station** that assesses the behavior of pilots and industrial equipment on real waters with different characteristics.

Through this affiliation, Spiral Water works hand-in-hand with global filtration manufacturers as well as other water systems and filter manufacturing firms as marketing and commercialization partners to apply its technology to new applications and help solve challenges that have plagued the water industry for decades.





T1000-OEM

T1000-SMS

T1000-DPX

T1000-QDP

Available in stainless steel, our **Series 1000 Automatic Self-cleaning Filters** are designed to handle medium to high flow, high pressure, high temperature applications and liquid/solids separation. The Model T1000 is intended for industrial applications while Model H1000 accommodates sanitary applications. <u>Read more</u>.





Get your free filtration audit. Simply download and fill out our Application Data Sheet and email it to <u>info@spiralwater.com</u>

Download Application

Call us at 732-629-7553 to speak with one of our technical representatives to discuss your project or learn more about Spiral Water's next generation filters.

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