

Tekleen Automatic Filters Highlights Industrial Water Reuse as Critical to Sustainable Manufacturing Transformation

Innovative water reuse technologies reduce manufacturing water consumption by up to 60%, offering significant environmental and economic benefits.

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/EINPresswire.com/ -- As [sustainability](#) continues to shape the future of global industry, manufacturers are rapidly

turning to industrial water reuse as a powerful solution to reduce environmental impact, improve efficiency, and remain competitive. Tekleen, a leading manufacturer of [automatic self-cleaning](#) water filters, is at the forefront of this transformation—helping industries reimagine

how water is used, treated, and recycled in manufacturing operations.

“

Water reuse is now a competitive edge. We're helping manufacturers meet goals and cut costs through smart water management.”

said Nagui Elyas, CEO of Tekleen

Water plays a vital role in sectors such as pharmaceuticals, food and beverage, petrochemicals, textiles, automotive, and semiconductor production. However, this heavy reliance on water also presents ongoing challenges: resource scarcity, rising utility costs, regulatory pressures, and sustainability demands. Industrial water reuse directly addresses these concerns by recycling wastewater back

into operational use—minimizing waste, lowering costs, and preserving natural resources.

According to the Environmental Protection Agency, industrial water reuse can reduce total water consumption by up to 60%. These savings are not just environmental—they're also financial. The American Water Works Association reports that manufacturers adopting water reuse strategies experience water-related cost reductions between 30% and 70%.

Tekleen's advanced water filtration systems enable manufacturers to adopt water reuse at scale



through reliable, efficient, and cost-effective technologies. The company's automatic self-cleaning filters offer precision filtration down to 2 microns, protecting sensitive systems while maintaining continuous operation through automated backwash cycles completed in just 10 seconds. Built with industrial-grade stainless steel and high-performance polymers, Tekleen filters are engineered to withstand the toughest environments while reducing backwash water consumption by up to 90%.

"Water reuse isn't a niche concern anymore—it's quickly becoming a competitive advantage," said Nagui Elyas, CEO of Tekleen. "We're helping manufacturers meet regulatory demands and sustainability goals while also driving real operational savings. The future of manufacturing depends on smart water management, and we're proud to be a catalyst for that change."

Tekleen's impact is already being felt across industries. At John Wayne Airport, Tekleen filters improved cooling system efficiency while minimizing maintenance and water waste. At Sierra Nevada Brewing Company, filters installed across irrigation, cooling towers, and reverse osmosis pre-filtration helped reduce labor, enhance performance, and cut costs—supporting the company's larger sustainability mission.

With global regulations tightening around water use and discharge, the need for advanced water reuse strategies continues to grow. Tekleen remains committed to helping manufacturers embrace responsible water practices—ensuring long-term resilience, environmental stewardship, and industry leadership.



ABW Series

ABW Tekleen Automatic Self Cleaning Water Filters



Tekleen Automatic Self Cleaning Filter At Wacker Drive, Chicago

About Tekleen

Tekleen is the leading manufacturer of automatic self-cleaning water filters, serving industries worldwide with sustainable and highly efficient filtration solutions. Based in Santa Fe Springs, California, Tekleen's technologies are trusted across industrial, municipal, and agricultural sectors for their reliability, durability, and performance.

For more information, visit www.tekleen.com or contact filters@tekleen.com.

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