

Tennant Company Launches Next Generation of Sustainable Cleaning with Breakthrough Nanobubble Technology

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ec-H2O NanoClean™ now available on the new Tennant T300 and Nobles SS300

MINNEAPOLIS--(BUSINESS WIRE)-- Tennant Company (NYSE: TNC) today announced **ec-H2O NanoClean™**, the next generation of the successful, sustainable cleaning technology ec-H2O™. This next generation solution offers the same great benefits of the original and now cleans better, cleans more soils, and is effective in more applications. Tennant Company is a world leader in designing, manufacturing and marketing solutions that help create a cleaner, safer, healthier world.

T300 with ec-H2O NanoClean technology (Photo: Business Wire)

Proprietary ec-H2O technology
by Tennant Company is a

globally well-adopted cleaning technology introduced in 2008 and commercialized on a family of automated floor scrubbing machines. Since then, advances in nanobubble technology led to ec-H2O NanoClean, the next generation of Tennant's innovative cleaning technologies. The name NanoClean refers to the creation of nano-scale bubbles that are an important part of the cleaning mechanism.

Like the original ec-H2O, ec-H2O NanoClean technology electrically converts water into an innovative cleaning solution that cleans effectively, saves money and reduces environmental impact compared to daily floor cleaning chemicals. This converted water is created by an on-board e-cell that generates millions of microscopic bubbles—nanobubbles—per milliliter of solution. These nanobubbles then promote the cleaning efficacy of the solution.

Bulk nanobubbles may be defined as nanoscopic gaseous domains less than 1000 nanometers in diameter. They are spherical in shape, mobile and suspended in an aqueous environment/solution at ambient temperatures. Studies by independent parties have determined that they are gas-filled and stable for minutes to hours. Tennant and third-party scientists have demonstrated in the lab a direct connection between nanobubbles and cleaning efficacy which Tennant has translated into improved cleaning performance in customer environments. Experiences from customers using ec-H2O NanoClean in their environments are documented at **NanoClean Customer Testimonials**.

“There are thousands of nanobubble patents issued globally,” according to Mark Citsay , Tennant Company’s Chief Scientist. “When we first explored how nanobubbles might relate to cleaning technology, we found that nanobubble technology is already commercialized in numerous applications even as scientific understanding of nanobubbles continues to evolve. Among these applications are contaminant removal during silicon wafer cleaning, removal of salt build-up on bridges, and municipal water treatment,” Citsay added. “Tennant Company has worked closely with leaders in this discipline to be the first company to correlate the presence of bulk nanobubbles with floor cleaning performance.”

“We believe our finding that nanobubble technology correlates to cleaning performance is groundbreaking science for our customers and for the advancement of our industry. With more than 65,000 ec-H2O-equipped machines sold to more than 7,500 customers, we know ec-H2O works,” said Chris Killingstad , President and CEO of Tennant Company. “We’re thrilled to build on this success with ec-H2O NanoClean, continuing the trend of Tennant bringing innovative technology and solutions to help our customers address their toughest cleaning challenges.”

The ec-H2O NanoClean technology is currently available on the **Tennant T300** and **Nobles SS300** and will soon be available on Tennant Company’s full line of commercial scrubbers.

About ec-H2O™ Technology

Since 2008, ec-H2O technology has become the standard in detergent-free floor cleaning. Available on the full line of Tennant floor scrubbers, Tennant Company has shipped over 65,000 machines, to over 7,500 customers at more than 29,000 locations around the world including big box retailers, grocery stores, colleges and universities, and food and beverage distributors. Many have shared their enthusiasm for the positive results ec-H2O technology has produced for their organization.

Company Profile

Minneapolis-based Tennant Company (NYSE: TNC) is a world leader in designing, manufacturing and marketing solutions that empower customers to achieve quality cleaning performance, significantly reduce their environmental impact and help create a cleaner, safer, healthier world. Its products include equipment for maintaining surfaces in industrial, commercial and outdoor environments; chemical-free and other sustainable



cleaning technologies; and coatings for protecting, repairing and upgrading surfaces. Tennant's global field service network is the most extensive in the industry. Tennant has manufacturing operations in Minneapolis, Minn.; Holland, Mich.; Louisville, Ky.; Uden, The Netherlands; the United Kingdom; São Paulo, Brazil; and Shanghai, China; and sells products directly in 15 countries and through distributors in more than 80 countries. For more information, visit www.tennantco.com.

Photos/Multimedia Gallery Available: <http://www.businesswire.com/multimedia/home/20150409006509/en/>

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