ec H2O™ NanoClean

TENNANT®

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 very tiny microscopic bubbles known as nanobubbles that promote the cleaning efficacy of the solution. This next generation solution offers the same great benefits of the first generation and now cleans better by cleaning more soils in more applications.*

SAME KEY BENEFITS AS THE FIRST GENERATION OF ec-H2O™

REDUCE THE COST TO CLEAN
Take advantage of significant savings in chemical costs, labor savings through increased productivity, and more.

ENHANCE FACILITY IMAGE
Effectively removes typical daily soils as well as more stubborn soils like food greases, road salt, and more without leaving chemical residue.*

MAINTAIN HEALTH AND SAFETY
Certified by the NFSI to improve floor traction and reduce the risk of slip and fall accidents. NSF registration ensures the technology is safe to use in food and beverage handling environments.

CLEAN MORE SUSTAINABLY
Utilizing ec-H2O NanoClean reduces the impact of cleaning operations on the environment in seven key categories according to a third-party study by Ecoform.

ec-H2O NanoClean CUSTOMER REACTION

"Before ec-H2O NanoClean we used a chemical that would neutralize the salt. Sometimes we had to go over it twice, but with ec-H2O NanoClean we've found that **once was enough**."

— Jim Dayhuff, Penn-Harris-Madison Schools

"Our chemical costs from using ec-H2O NanoClean have **dropped drastically**. It's really taking those things that would have been done with mop and bucket, automating the process, and by doing that being able to reduce the time that it takes us in the cleaning process by more than triple."

— Craig Arnold, Aramark

WHAT'S DIFFERENT?

- **3-5x MORE** current is applied to the water
- The amount of current is dependent on the water flow setting of the machine
- The additional current produces a significant increase in bubbles which include nanobubbles
- Validated third party testing has shown that nanobubbles contribute to the cleaning power of the solution
- Improved cleaning solution delivered to the floor

**ec-H2O NanoClean™ technology is not suitable for all soils, including heavy concentrations of fats and oils. Depending on the type of soil, conventional chemical cleaners may be required.*

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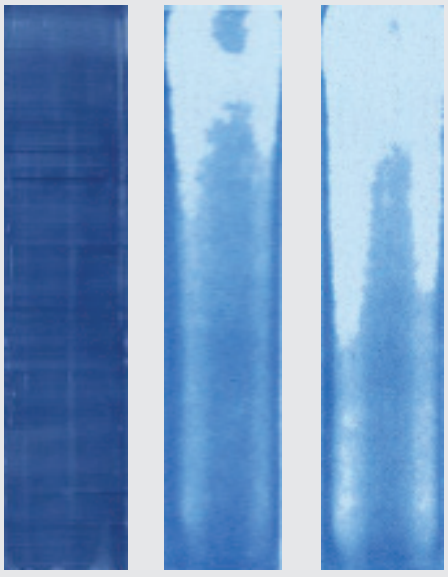
SOLUTION TESTS

Working with third party test experts, Tennant has developed a test method to validate the improved cleaning performance of just the ec-H2O NanoClean™ solution without the bias of the machine. Below is a sampling of the test results which indicates that the ec-H2O NanoClean solution is an improvement over the first generation of ec-H2O™ across a wide range of water conditions.*

SOIL

Soy Bean Oil, Pancake Mix and Pigment



ORIGINAL SOIL SAMPLE | CLEANED WITH ec-H2O | CLEANED WITH ec-H2O NanoClean

ec-H2O NanoClean

ec-H2O

WATER SOURCE	% IMPROVEMENT OVER ec-H2O
São Paulo, Brazil	18%
Malaysia	24%
Frankfurt	27%
Uden, Netherlands	30%
Singapore	32%
Hefei, China	33%
Vancouver, B.C.	44%

IMAGINE CLEANING WITH JUST WATER!

Here's how ec-H2O NanoClean technology works:

CLEAN TAP WATER IN SOLUTION TANK → EC-H2O NANOCLEAN™ E-CELL APPLIES STRONG ELECTRIC CHARGE → MILLIONS OF NANOBUBBLES ARE CREATED → NANOBUBBLES INTERACT WITH SOIL → DIRTY WATER OUT

*The test involves placing a soil on a tile and spraying a mist of each cleaning solution on the tile for several minutes. The amount of soil removed from the ec-H2O NanoClean tiles is compared to the soil removed from the ec-H2O tiles.