NXT 1or2 Pure Water System

Effective May 2022

Pure Water
Window Cleaning System
Operation and Maintenance Manual

Overview

Congratulations on your purchase.

Thank you for purchasing the NXT 1 or 2 Pure Water System! With proper care, this unit will provide you with years of trouble free service. This system was designed with professional window cleaners in mind. The NXT 1 or 2 will help you clean faster, safer, and better than ever before, leaving spot free results that you and your customers will love!

The NXT 1 or 2 is a single-stage water purification unit using deionization filter cartridges to remove impurities from water before delivery to surfaces for cleaning. *General life span will vary depending on feed water TDS.* Based on an average TDS of 100, approximately 500 gallons of water can be passed through the filters before replacement is needed. Actual results and circumstances will vary. Read all sections of this manual to ensure proper function of your system.

In The Box

Parts Check

- NXT 1 or 2 System
- Hose Reel (NXT 2 Only)
- TDS Meter
- Shutoff Valve
- Owner's Manual and Quickstart Guide

1. Unpacking/Inspecting The System

Your system is packaged to stay undamaged in transit. Carefully remove the packaging material from around the system and discard. Your NXT 1 OR 2 comes with all filters installed and ready for use. Inspect your NXT 1 or 2 for any shipping damage. If damage has occurred notify the shipping company that made delivery to begin a damage claim. Ensure that none of the fittings have loosened up in shipping. Fittings should be tightened enough to engage the gaskets. DO NOT OVERTIGHTEN THE FITTINGS as this will result in damage.

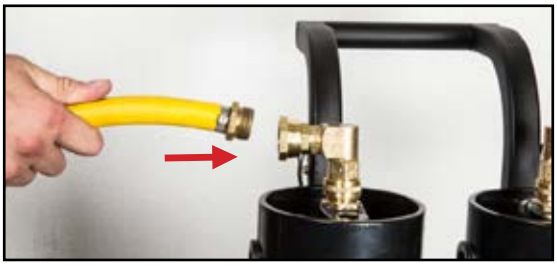
2. Initial Setup

Refer to your quickstart guide for more complete information.

You can also watch the quickstart video at: www.abcWindowSupply.com/NXT1-2QuickStart

1. If using NXT 2, Attach Handle to the hose reel.
2. Remove the black plastic plug or cap from Brass Fittings on top of filters. These plugs can be saved to seal the system after use.
3. Attach feed hose to system.
4. Thread the black plastic shut off valve onto the system outlet (on the top of the DI filter for the NXT1 and on the end of the hose reel for the NXT 2) and connect pole tubing. The push in connector on the pole tubing goes in easier with the valve in the off position. Ensure valve is in open position.
5. Turn on water.
6. Start cleaning windows.

3. Hooking Up To Water Source



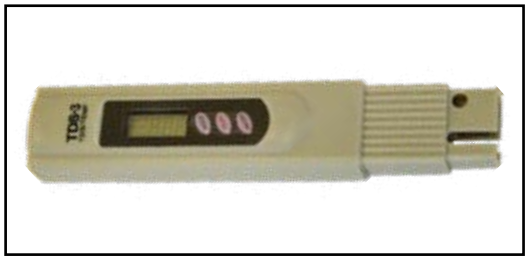
Your NXT 1 or 2 is designed to be operated while standing up. Locate an external water source. Attach one end of the feed hose (not supplied) to the water source. ¾" garden hose is preferred. Connect the other end to the female garden hose fitting on the NXT and turn on water supply. **Do not drink pure water made from your system.**

4. Achieving Maximum Filter Life

DI only systems produce a large output of water because they are minimally restrictive. Running the shut off valve in the fully open position will exhaust the filters more rapidly. Depending on the height and output requirements it is recommended to close the shut off valve to the minimum required output to effectively clean windows. The less water that you allow to pass through the system the longer filter life you can expect.

DI resin is comprised of a mixture of charged particles. This resin will lose some, if not all, of its charge if stored for long periods of time. Use filters within 6 months of purchase to ensure optimal performance. Read on in this manual for detailed storage instructions.

5. TDS (Total Dissolved Solids) Meter



Total Dissolved Solids are the minerals and salts within source water that lead to spotting on glass as the water evaporates. Your TDS meter measures the amount of dissolved solids using the conductivity of the water. The meter can test water before and after individual filters or the entire system to determine how they are performing. TDS levels are measured in parts per million (ppm).

Remove the cap from the TDS meter and fill with the sample you wish to test. Push the "On" button on the handheld TDS meter to get a TDS reading of the water sample. A TDS reading of 0 – 10 is acceptable for cleaning most windows, though specific conditions and results may vary.

When measuring source water before pure water TDS levels, it is important to rinse out any source water with pure water to ensure accurate readings. Even a single drop of source water will cause the pure water TDS reading to appear higher than it actually is.

6. Using A WaterFed®Pole

Once your NXT 1.0 or 2.0 system is hooked up, and you have a WaterFed® pole connected to the hose, you're ready to clean windows.

Always begin by cleaning the top row or highest windows first, including scrubbing the frames. Work the WaterFed® pole up one side of the frames, across the top, and back down the other side. Scrub the glass in an up and down motion, moving the pole the entire length of the glass with each stroke if possible. Return the pole to the top of the window, and with a side to side motion, allow rinse water to flow completely down the surface of the glass.

Frame rinsing may not be required. If the height of the glass and the weight of the pole allow for it, hold the brush slightly off of the surface of the glass to rinse. If this is not possible, move the pole side to side slowly with the brush on the glass at the top, and let the water flow down the glass to rinse.

Once you have completed the top row or highest glass on one side of the building, repeat these steps for each tier or level of glass, working your way down. A good initial scrubbing on the glass followed by a complete rinse will ensure that the glass dries completely spot-free.

Pure water is a great natural solvent for many soils. In some cases, such as heavy soils, a pre-soak or even a double scrub and rinse may be needed to achieve optimal results. The agitation of the brush, coupled with the flow of water through the brush when scrubbing, should break down and suspend most soils, readying them for complete removal via the rinse step.

As with any new procedure, practicing the use of your WaterFed® pole is the best way to achieve optimal results. Learn more about basic technique at www.abcWindowSupply.com/StartingWF

7. Soap Residue

Getting spotting when your TDS levels are below 10? A common issue encountered when transitioning buildings from traditional window cleaning methods to pure water cleaning is soap residue. After the initial cleaning with pure water, small white or gray spots and runs may be seen on the glass after drying. Most often this is soap and or detergent residue left behind by previous traditional cleanings and brought out of the pores of the glass by the pure water cleaning process. The soap can take up to 30 minutes to dissolve if it has been baked on or pushed into seals and frames. Soaking the glass 15-20 minutes before performing a normal agitation and rinse cycle will remove soap spotting. Repeat agitation and rinse if the spots persist.

8. Shutdown

1. Turn supply water off and disconnect hoses.
2. Optional – detach lower hose fittings to drain water from housings for transport.
3. Optional- Reattach lower hose, turn the pole shutoff to off and insert plastic plug into system inlet. This will seal the system for transport and prevent the DI filters from drying out.

9. Maintenance

Your NXT 1 or 2 system requires little maintenance to operate at peak performance.

The lifespan of your DI filter depends on the TDS of the water entering the filter. Periodically check the TDS of the purified water leaving the DI filter with the provided hand held meter. When the TDS levels reach unacceptable levels for your application (abc suggests 10ppm or less for window cleaning and 40ppm or less for cleaning opaque surfaces) the DI filter is completely exhausted and should be replaced. Once your system is exhausted both filters are bad and should be changed at the same time. See trouble-shooting section below for more information on high TDS levels coming from the system.

10. Filter Replacement

Learn how to change your filters by video:
www.abcWindowSupply.com/NXT1-2Filter

Learn when to change your filters with this guide:
www.abcWindowSupply.com/FilterTime

Unscrew the connection hoses from the top and bottom of the Deionization (DI) filter (P/N WF2CDI-21). Unscrew the wingnut at the top of the DI filter cartridge. Remove the DI filter by first pulling the top of the filter away from the frame pulling it off of the bolt at the top. Next, lift up to remove the filter from the clip at the bottom. Discard used filter. Slide the bottom of the new filter into the clip at the bottom of the frame and swing the top so that the bolt is inserted in the hole on the top cap of the filter. Tighten the wingnut on the bolt to secure the filter, checking to make sure that the filter is seated in the bottom clip. Attach your brass fitting to the bottom DI filter. Fittings should be tight enough to avoid leaks, but over tightening could result in damage to the brass fittings.

11. Upgrading To Multi-Stage Filtration

The NXT 1 or 2 can also be upgraded to a multi-stage RO/DI filtration system. If you find that you are using your cart more frequently, consider upgrading to multi-stage filtration. This will greatly reduce your cost per gallon. This is an easy upgrade to install on your cart.

The multi-stage purification upgrade kit (P/N TSNXT-U-3) Includes 2 Reverse Osmosis (RO) Filters, 1 Carbon/ Sediment Filter, and all plumbing and hardware needed to convert NXT 1 or 2 into a multi-stage water purification unit.

12. Storage

Storage - Short Term (2-4 Weeks)

Do not allow any cartridges to dry out. Dry DI resin will lose its charge and therefore become unable to remove dissolved solids from the water. DI filters need to stay moist but do not need to be full of water. Use the black plug and shutoff valve (in closed position) to seal off the filters between uses.

Storage - Long Term (Winterizing)

Wrap Cartridges tightly in plastic wrap or plastic bags, seal with tape. Do not allow to freeze.

If your filters freeze they will be ruined.

13. Troubleshooting

Low Pure Water Flow Out Of The Brush

1. Low tap pressure is one of the most common causes of low flow of pure water. Source water pressure is the primary driver of system performance. Trying a different source may lead to better performance. Also check all hoses (incoming and outflowing) for kinks or blockages, especially hose reels that are wound too tight. Trying a larger diameter hose (½" or more) or a shorter hose length between the system and the tap can also improve flow.

2. Leaks in the system and the pole tubing can release pressure and take flow away from the jets in your brush. A couple of small leaks in the pure water lines can cut pressure to the jets in half. Read the "leaks" section below for more information on eliminating leaks in the system.

High TDS Coming From The System

1. Retest your water sample. When you get a higher than expected reading on your handheld TDS meter, it is a good idea to use the water you are testing to wash out both the measuring lid and the measuring prongs of the meter itself. Do not get the body of the meter wet, it is not waterproof. Minerals can stay in the cup from other measurements and can make the sample appear to have a higher TDS than it actually does. Taking multiple samples ensures maximum accuracy

2. High TDS coming out of the system usually indicates that the DI filter is spent. If the TDS levels before and after the DI filter are the same, the filter is completely depleted. Replace the DI filter (P/N WF2CDI-21) once depleted.

14. Leaks

Leak Between Brass Garden Hose Fitting And Plastic Housing

1. Unscrew leaky brass fitting.
2. Check brass fittings for damage or deformation. If necessary replace brass fittings. Replacement parts can be ordered from ABC or bought from a local store. The plastic hole size is ½" national pipe thread (NPT) and the Brass fitting connection are a standard ¾" Garden hose thread (GHT).
3. Fittings should be attached with an adhesive to prevent leaks. We recommend Liquid Nails Perfect Glue from Home Depot.
4. If leak persists replace filter.

Leak Between Brass Garden Hose Fittings

1. With the source water off, check that the fitting is properly tightened. Tighten until you feel the gasket engage. DO NOT OVER TIGHTEN
2. Unscrew the leaky connection. Check gasket in the female fitting for damage or deformation. Replace gasket if necessary.
3. Check brass fittings for damage or deformation. If necessary replace brass fittings. Replacement parts can be ordered from abc or bought from a local store. The plastic hole size is ½" national pipe thread (NPT) and the Brass fitting connection are a standard ¾" Garden hose thread (GHT). Fittings should be attached with an adhesive to prevent leaks. We recommend Liquid Nails Perfect Glue from Home Depot.

Expressed Warranty

abc Window Cleaning Supply warrants new water purification systems against manufacturing defects under normal use to the original purchaser.

abc Window Cleaning warrants new equipment for one year from the original purchase date to be free from manufacture defect. Any parts sent out for warranty are warranted from the original purchase date of the machine.

The customer must first contact abc Window Cleaning to notify them of the problem. abc may require the merchandise to be shipped back to them at the customer's expense to evaluate the warranty claim. If the equipment is found to be a manufacture defect abc Window Cleaning will reimburse shipping expense and parts will be sent out at no charge including standard ground shipping. Rush shipping will be the sole responsibility of the customer.

Wear items exempt from warranty include filters and membranes.

This warranty does not apply to misuse or abuse causing failure of the system. The customer must contact abc Window cleaning before attempting any repairs or modification to the system. Failure to do so will void your warranty.

abc Window cleaning holds no responsibility for loss of labor, time or any costs associated with using the equipment. abc Window Cleaning holds the sole discretion of whether a claim falls under warranty.

Returns

No returns are accepted on this unit or its filters. The consumable nature of DI only systems does not allow for us to take returns.

www.abcWindowSupply.com
12371 Mead Way, Littleton, CO 80125
1.800.989.4003 //

Replacement Parts

DI Filter (2)
WF2CDI-21

Shut-off Valve
WF601311

Outlet Elbow
TA-NXT-OUTELBOW

TDS Meter
HMTDS-3

Inlet Elbow
TA-NXT-INELBOW

Wheels
WF65000-WH

Replacement Feet
WF7000-RF

Replacement Hoses
available upon request.
1-800-989-4003