NEUTRAL ZONE™

Neutralization Tank

Installation, Operation, & Maintenance Guide

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CUSTOMER SERVICE HOURS: 8 AM - 5 PM CST

11/5/26

STRIEM

NEUTRAL ZONE™

Neutralization Tank

Installation, Operation, & Maintenance Guide

OVERVIEW

Striem's Neutral Zone™ Neutralization Tank is intended for installation under individual sinks, lab stations, and other point-of-use locations. It is designed to bring low pH wastewater up to an acceptable level prior to discharge to the sanitary sewer system.

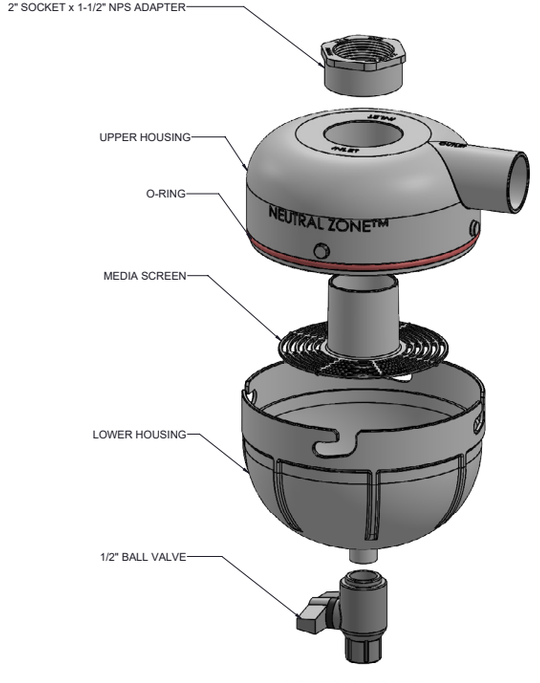
OPERATION

Low pH wastewater enters through the inlet connection and is directed to the bottom of the unit through the inlet diptube. As the wastewater moves through the unit, its pH is raised through neutralization with magnesium oxide media. The Neutral Zone's CPVC construction provides the necessary chemical resistance for chemical waste applications. The Neutral Zone has an integral trap. Check local codes to ensure compliance.

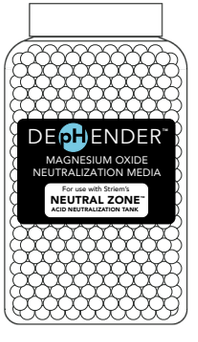
LIFETIME WARRANTY

Our products are designed to last the lifetime of the plumbing system in which they are installed. If they don't, we will repair or replace them at no charge. Product damage due to normal wear and tear may be repaired or replaced at a reasonable charge. See website for full details. FAILURE TO INSTALL IN ACCORDANCE WITH THE INSTALLATION, OPERATION, AND MAINTENANCE GUIDE WILL VOID YOUR WARRANTY.

WHAT'S INCLUDED: 2" Socket x 1-1/2" NPS Adapter • Upper & Lower Housing • O-ring • Media Screen 1/2" Ball Valve • DepHender Magnesium Oxide Neutralization Media



NEUTRAL ZONE™
NEUTRALIZATION TANK



DEpHENDER™
MAGNESIUM OXIDE
NEUTRALIZATION MEDIA

LIFETIME GUARANTEED

WARNING: FAILURE TO INSTALL IN ACCORDANCE WITH THE INSTALLATION, OPERATION, AND MAINTENANCE GUIDE WILL VOID YOUR WARRANTY.

MADE IN THE USA

WARNING

DO NOT AIR PRESSURE TEST UNIT!

DOING SO MAY RESULT IN PROPERTY DAMAGE, SERIOUS BODILY INJURY, OR DEATH!

Refer to Installation Instructions for correct testing procedure.

LEAK/SEAL TESTING

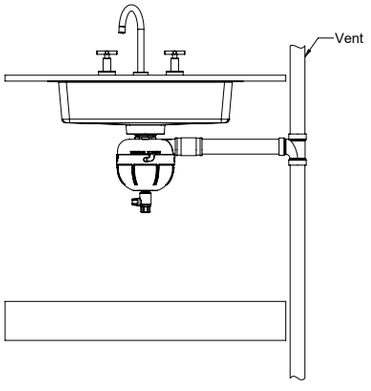
DO NOT AIR TEST UNIT!

Doing so may result in property damage, personal injury or death.

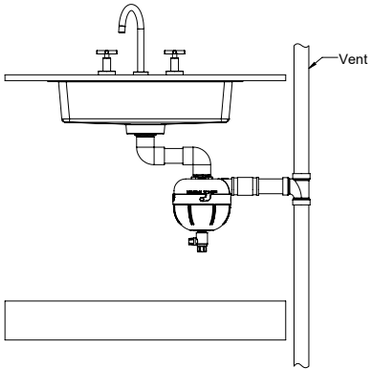
To perform a leak/seal test, cap/plug the outlet connection, and fill the unit with water just above the highest connection. Inspect unit and connections for leaks. Check water level at specific intervals per local code.

WARNING: FAILURE TO INSTALL IN ACCORDANCE WITH THE INSTALLATION, OPERATION, AND MAINTENANCE GUIDE WILL VOID YOUR WARRANTY.

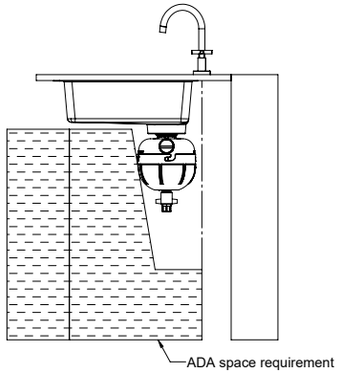
INSTALLATION ARRANGEMENTS



INLINE DRAIN CONNECTION



OFFSET DRAIN CONNECTION



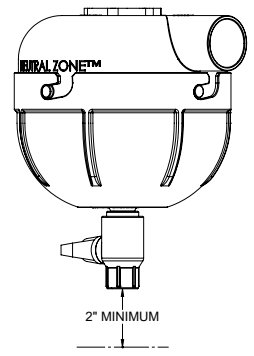
ADA INSTALLATION — SIDE VIEW

INSTALLATION

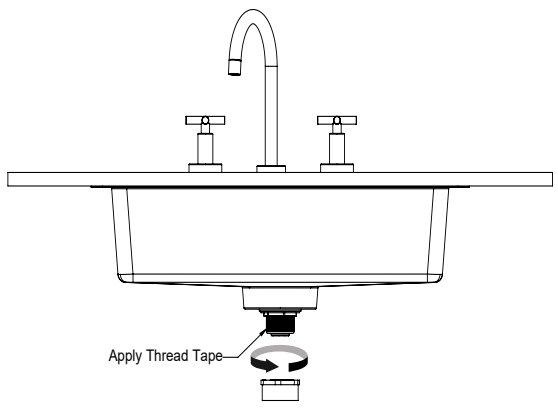
Always install and maintain Neutralization Tanks according to manufacturer's recommendations, specifier requirements, and state and/or local codes.

1. Prior to installation, ensure all components are accounted for (see "What's Included") and ensure no component has been damaged during transportation.
2. The Neutral Zone is designed for above grade installation only. Make sure there is a minimum of 2" clearance below the fully assembled unit for proper cleaning and maintenance. *(See figure 1 on the right)*
3. Apply thread tape or pipe sealant to inlet piping/sink drain, then install the 1-1/2" NPS Adapter. *(See figure below)*
4. Using CPVC primer and cement, solvent weld the 1-1/2" NPS Adapter into the inlet connection of the Upper Housing, orient the outlet in the required direction to connect with downstream piping. *(See figure below)*
5. Connect Upper Housing outlet to outlet waste piping (by others). The Neutral Zone has an integral trap, eliminating the need for a p-trap before or after the unit.
6. Using CPVC primer and cement, solvent weld the 1/2" Ball Valve to the valve port on the Lower Housing. *(See figure below)*
7. Pour full bottle of DepHender Media into Lower Housing, onto the grated section of the media screen. *(See figure below)*
8. Close the drain valve.
9. Align the pins and slots on the Upper and Lower Housings, rotate Lower Housing to engage pins. *(See figure below)*
10. Fill unit with water by turning on sink faucet.
11. Inspect all pipe joints and o-ring seal to ensure there are no leaks.
12. System is now ready for use.

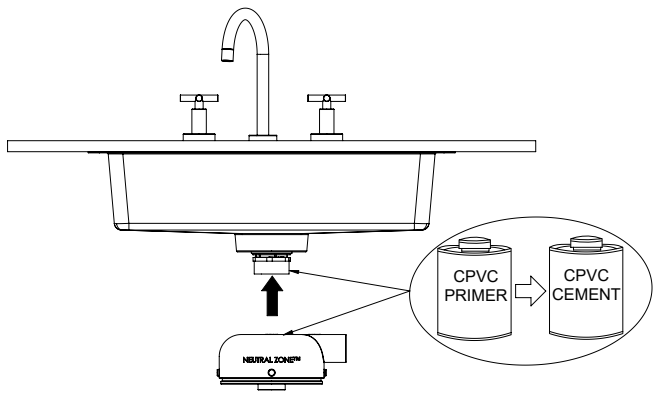
FIGURE 1: Minimum Distance to Remove Lower Housing



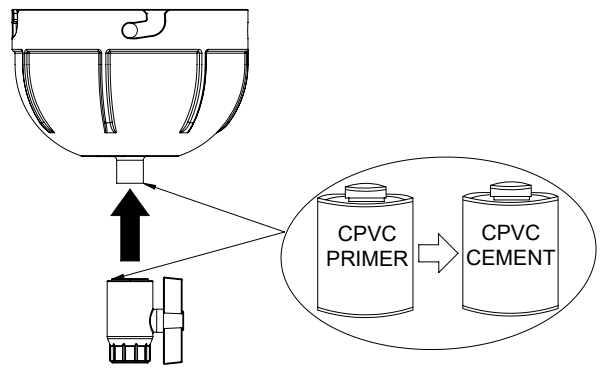
STEP 3



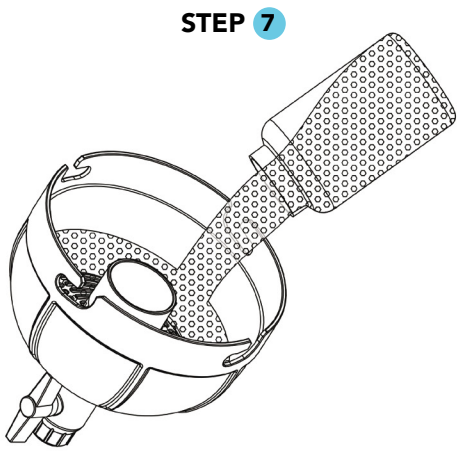
STEP 4



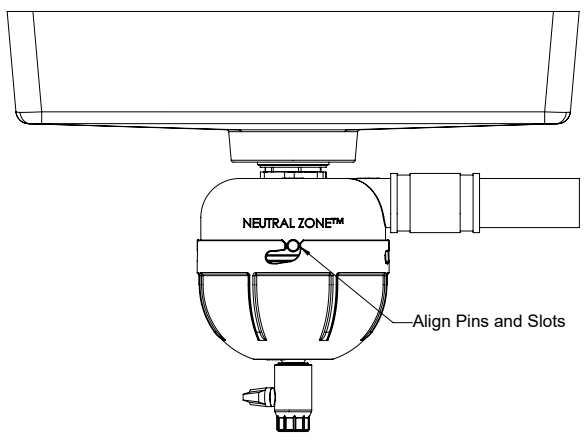
STEP 6

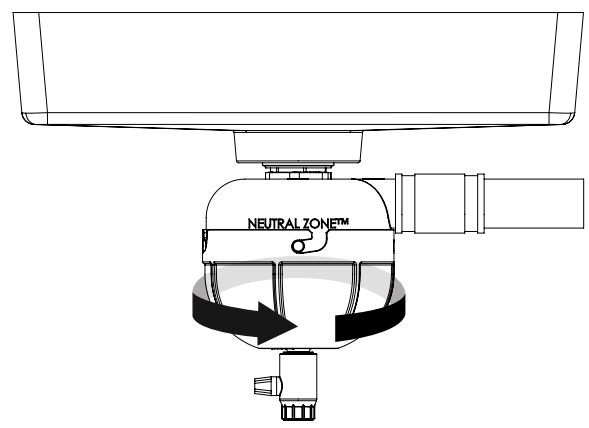


STEP 7



STEP 9





NOTES

Neutral Zone is not to be installed in any other manner except as shown. Consult local codes for separate trapping requirements, cleanout locations and additional installation instructions.

MAINTENANCE

1. Always take proper care to ensure a safe and healthy environment while maintaining the neutralization tank.
2. Drain the liquid from the unit using the valve and catch the water in a container. (Liquid capacity of the unit is 0.6 gal). *(See figure below)*
3. Rotate the Lower Housing to disengage the locking pins. *(See figure below)*
4. Remove all contents of the Neutral Zone, including sludge, sediment, and DepHender Media. Media screen can be removed for cleaning if needed. *(See figure below)*
5. If removed, reattached Media Screen.
6. Refill unit with full bottle of DepHender Media. Close drain valve. *(See figure below)*
7. Align the pins and groove openings, then rotate the Lower Housing to reengage the locking pins. *(See figure below)*
8. Fill unit with water by turning on sink faucet.
9. Dispose of contents per local code.

MAINTENANCE FREQUENCY

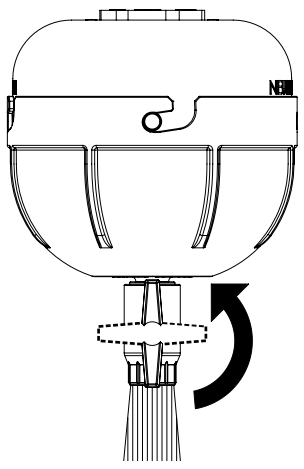
Maintenance frequency depends on the quality and contents of the chemical waste passing through the system. Striem recommends inspecting the Neutral Zone every four to six months until a proper maintenance schedule can be established. Debris and sludge may need to be cleaned out periodically to allow the free flow of wastewater through the unit.

TROUBLESHOOTING TIPS

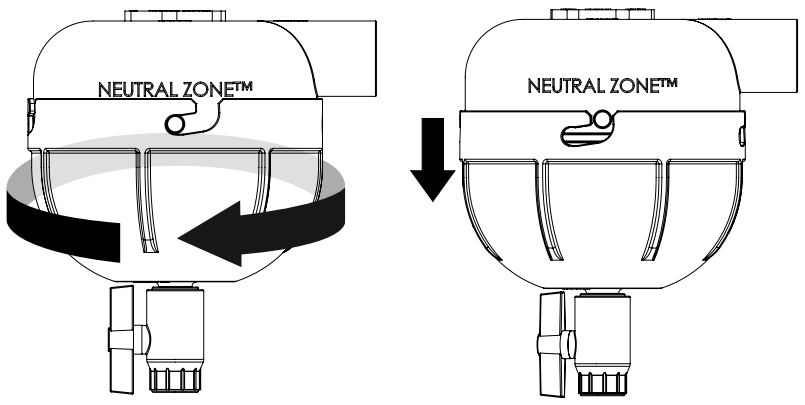
Slower than usual drainage may indicate a blockage and a need to maintain the Neutral Zone. Ensure the drain line and diptube are cleared of all debris in the presence of slow drainage.

Effluent flow of low pH may indicate that the DepHender media has been depleted. In the presence of low pH effluent, maintain the unit immediately. Low pH effluent is defined as liquid with a pH value that is below the local jurisdiction's lower discharge limit. If unknown, contact Striem.

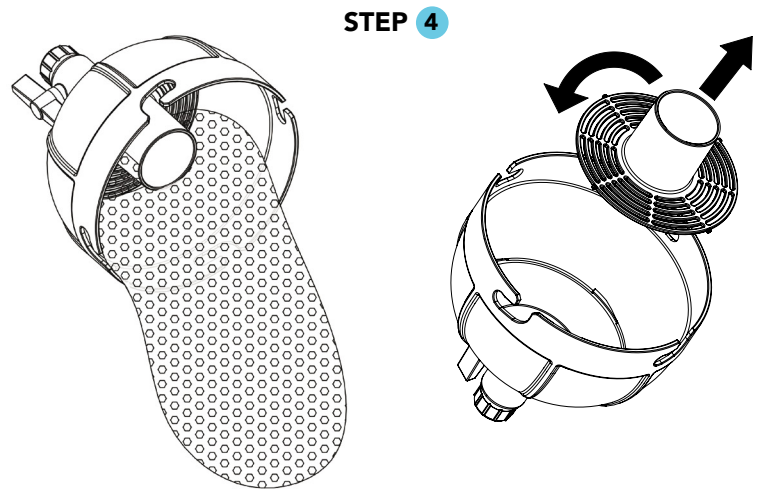
STEP 2



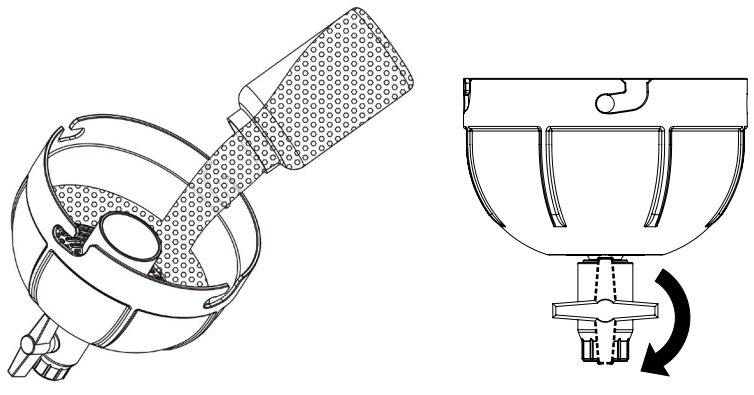
STEP 3



STEP 4



STEP 6



STEP 7

