

HydrX™ Fuel Conditioner Waste Water Tank



Draining Instructions

Notice and Disclaimer

- **VEEDER-ROOT SHALL NOT BE LIABLE FOR ERRORS CONTAINED HEREIN OR FOR ANY TYPE OF DAMAGES IN CONNECTION WITH THE FURNISHING, PERFORMANCE, OR USE OF THIS PUBLICATION.**
- Veeder-Root makes no representation or warranty about the information in this publication. A qualified professional is required for service of the components addressed in this publication.
- The information in this publication cannot be used as a substitution for the knowledge and experience of a qualified professional.
- The information contained in this publication is merely for the consideration of a qualified professional, which should make their own determination of how to address any issues based on the situation.
- Veeder-Root reserves the right to change system options or features, or the information contained in this publication, at any time without notice.
- This publication contains proprietary information which is protected by copyright. All rights reserved. No part of this publication may be photocopied, reproduced, or translated to another language without the prior written consent of Veeder-Root.
- Contact TLS Systems Technical Support for additional troubleshooting information at 800-323-1799.

CONTRACTOR CERTIFICATION REQUIREMENTS

Veeder-Root requires the following minimum training certifications for contractors who will install and setup the equipment discussed in this manual:

Service Technician Certification (Previously known as Level 2/3): Contractors holding valid Technician Certifications are approved to perform installation checkout, startup, programming and operations training, system tests, troubleshooting and servicing for all Veeder-Root Series Tank Monitoring Systems, including Line Leak Detection.

TLS-4xx Technician Certification: Contractors holding valid TLS-450 Technician Certifications are approved to perform installation checkout, startup, programming and operations training, troubleshooting and servicing for all Veeder-Root TLS-450 Series Tank Monitoring Systems, including Line Leak Detection and associated accessories.

Warranty Registrations may only be submitted by selected Distributors.

SAFETY WARNINGS AND PRECAUTIONS

FAILURE TO COMPLY WITH THE FOLLOWING WARNINGS AND SAFETY PRECAUTIONS COULD RESULT IN SERIOUS INJURY OR DEATH, AND/OR CAUSE DAMAGE TO PROPERTY, AND THE ENVIRONMENT.

THIS SYSTEM OPERATES NEAR HIGHLY COMBUSTIBLE FUEL STORAGE TANKS.

EXPLOSIVE: Fuels and their vapors are extremely explosive if ignited.

FLAMMABLE: Fuels and their vapors are extremely flammable.

READ ALL RELATED MANUALS: Knowledge of all related procedures before you begin work is important. Read and understand all manuals thoroughly. If you do not understand a procedure, ask someone who does.

USE SAFETY BARRICADES: Unauthorized people or vehicles in the work area are dangerous. Always use safety cones or barricades, safety tape, and your vehicle to block the work area.

APPROVED CONTAINER: Use a nonbreakable, clearly marked container, suitable for collecting and transporting hazardous fuels during service.

NOTICE: Indicates information considered important, but not hazard-related.

WARNING: Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

GENERAL PRECAUTIONS

To ensure proper installation, operation, and continued safe use of this product:

1. Read and follow all instructions in this manual, including all safety procedures, local and federal guidelines.
2. Have equipment installed by a contractor trained in its proper installation and in compliance with all applicable codes including: National Electrical Codes 70 and 30A; federal, state, and local codes; and other applicable safety codes.
3. Substitution of components may impair intrinsic safety.
4. Do not modify or use service parts other than those provided by Veeder-Root.

Reference Documents: Manual 577014-466, 577014-446, 577014-492, 577014-493

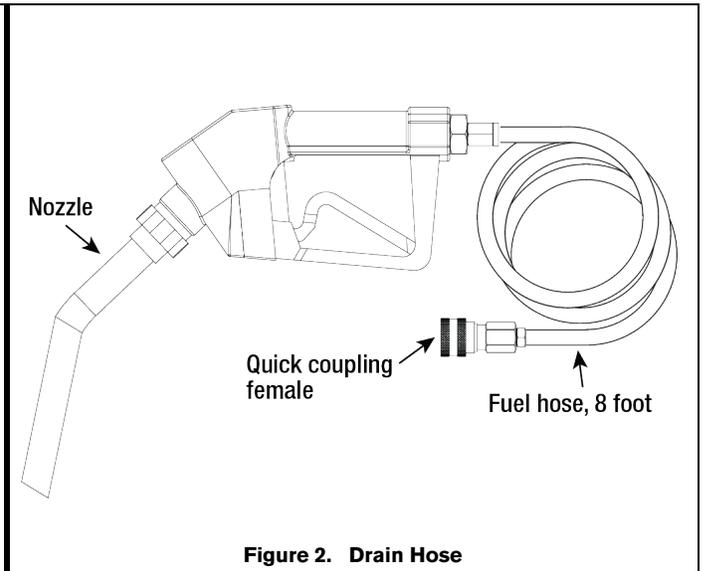
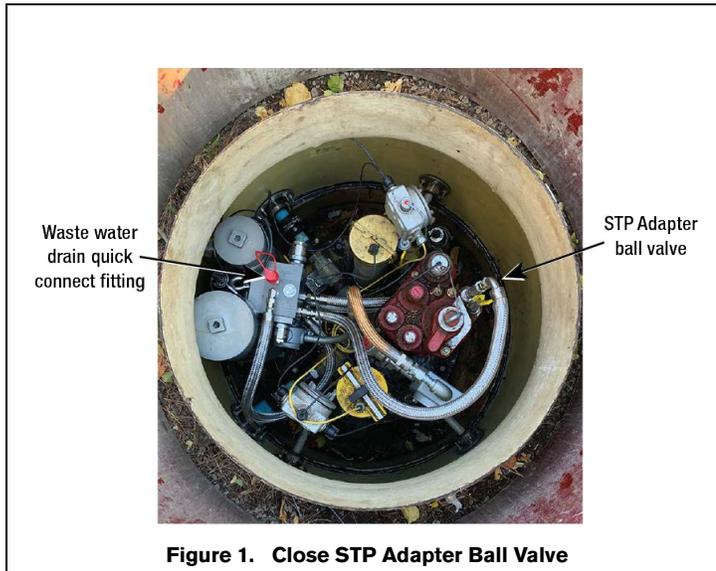
Suggested Equipment: V-R kit# 330020-880 and approved 5-gallon container to receive fuel contaminated waste water.

PROCEDURE



Tag, lockout power to the STP.

1. Close the STP Adapter ball valve to isolate the HydrX from the pump (see Figure 1).
2. Get the drain hose from the kit (see Figure 2) and attach the quick connect end of the hose to the waste water drain connector, marked 'D' on top of the manifold.



3. Turn on power to the STP and re-open the STP Adapter ball valve.
4. If the ATG is controlling the HydrX, follow the instructions in the Drain Waste Water- TLS-4xx Controlled HydrX section below. If a FCC is controlling the HydrX, follow the instructions in the Drain Waste Water - FCC Controlled HydrX section below.

DRAIN WASTE WATER - TLS-4xx CONTROLLED HydrX

1. Touch **Menu>Diagnostics>HydrX** to open the HydrX Diagnostic Screen, then touch **Overview** (Item 1, Figure 3) to open the HydrX Diagnostics Overview screen (Figure 4).



Figure 3. Accessing HydrX Diagnostic Screens

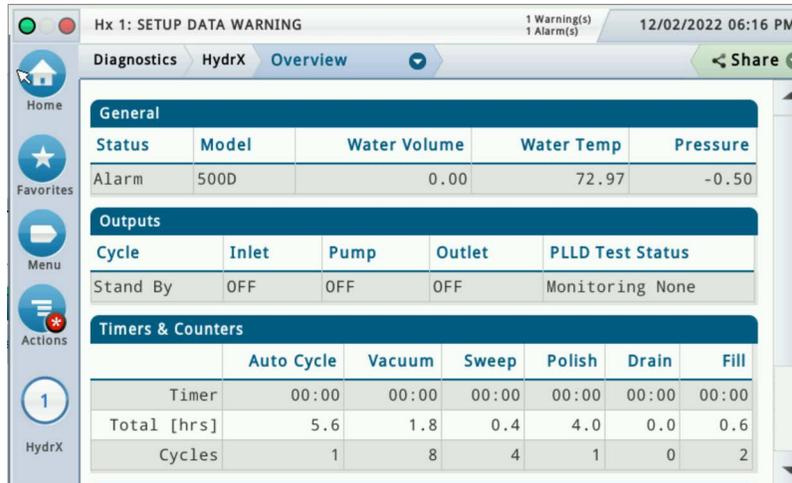


Figure 4. Example HydrX Diagnostics Overview Screen

2. Touch the **Actions** button (Item 1, Figure 5) to open the HydrX diagnostic service buttons menu (see Figure 5). Note: Gray Action buttons are disabled.

NOTICE

The Drain button will be disabled if the water level on the HydrX probe is 0.

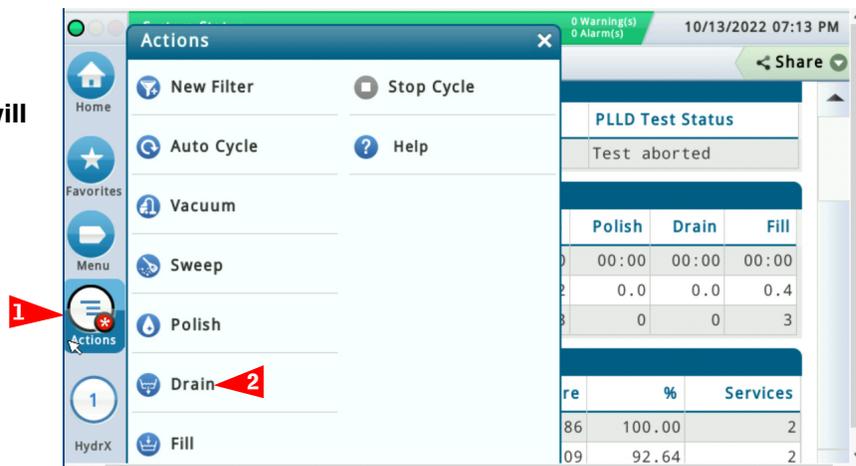


Figure 5. HydrX Diagnostics Overview Actions Menu

3. Touch the **Drain** button (Item 2, Figure 5) to run a Drain cycle. The Drain Cycle interval depends on time entered in HydrX setup.
4. After touching the drain button, a confirmation message will appear reading 'Are you sure you want to execute a drain event' select the check mark to proceed with the drain cycle, or click the X mark to cancel the action.
5. Place the nozzle into the approved waste water container and open the nozzle to begin the draining process.
6. After filling the container, or until the draining automatically stops (the float is on the bottom of the HydrX tank), release the nozzle. and close the STP Adapter ball valve.
7. If the HydrX float does not reach 0" during the programmed drain interval, a 'Drain Warning' will post. If the drain cycle is repeated and the Drain Warning is still present, debris may be interfering with the float travel. Debris must be removed to regain proper float travel. Refer to the 'Drain Warning' alarm in the HydrX System Maintenance Alerts table in manual 577014-493.



Tag, lockout power to the STP.

8. Disconnect the drain hose from the HydrX Drain port and replace the cap on the drain fitting.
9. Turn on power to the STP.
10. Re-open the STP Adapter ball valve.

NOTICE Dispose of waste water according to local guidelines.
Drain cycle is not executable via the web interface. Drain cycle must be executed via the GUI.

DRAIN WASTE WATER - FCC CONTROLLED HydrX

1. At the Fuel Conditioning Controller Home screen (see Figure 6), touch the **Service** button to open the FCC Service Home screen (see Figure 7).

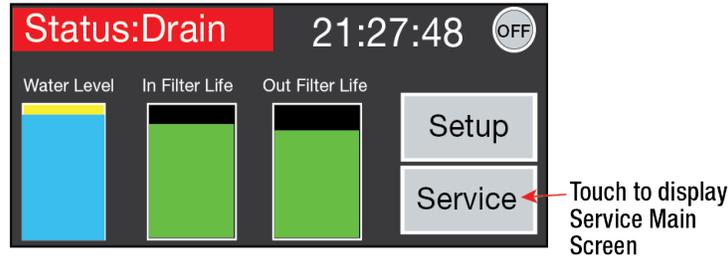


Figure 6. FCC Home Screen

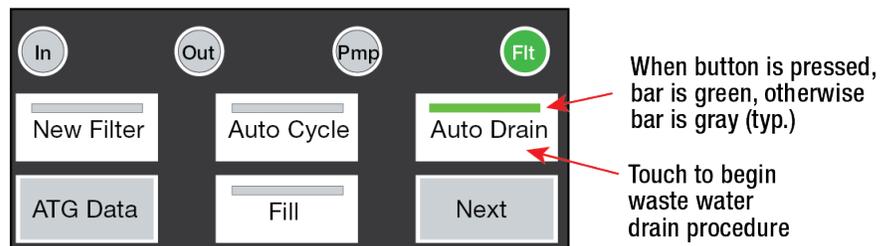


Figure 7. FCC Service Screen

2. Touch the **Auto Drain** button.
3. Place the nozzle into the approved waste water container and open the nozzle to fill the five gallon tank.
4. After filling the container, or until the draining automatically stops (the float is on the bottom of the HydrX tank), release the nozzle and close the STP Adapter ball valve.

NOTICE If drain cycle completes and the water float is reading above 0 the drain cycle may be repeated. If after running an additional drain cycle the water float is still reading above 0, clean solid debris from the bottom of the HydrX waste water tank (accessed through the Outlet Filter housing).

WARNING   **Tag, lockout power to the STP.**

5. Disconnect the drain hose from the HydrX Drain port and replace the cap on the drain fitting.
6. Turn on power to the STP.
7. Re-open the STP Adapter ball valve.