

# HydrX™ Fuel Conditioning System Frequently Asked Questions



## Do I need a new site to install the HydrX™ Fuel Conditioning System?

No, HydrX is designed to retrofit into existing sumps. HydrX 250D is a compact unit that is compatible with medium bury sumps. HydrX 500D is compatible with deep bury sumps. See the requirements on the [HydrX Fuel Conditioning System Submittal Form \(577014-471\)](#).



## Is HydrX compatible with New to Industry (NTI) sites?

Yes, provided the NTI sites meet the requirements on the [HydrX Fuel Conditioning System Submittal Form \(577014-471\)](#). Consult Veeder-Root Technical Support at [technicalsupport@veeder.com](mailto:technicalsupport@veeder.com) or +1.800.323.1799 for additional assistance with HydrX specifications.



## Does HydrX work with steel tanks?

Yes, HydrX is compatible with steel tanks. When installing HydrX in steel tanks, it is important to make sure there are no obstructions for the Water Intake Device (WID) to slide into place. Typically, there are monitoring fittings extending into the tank space that could interfere with the WID. If the monitoring fitting is in the path of the WID, HydrX should be installed in a 4" fitting that is offset from the tank centerline so the WID passes by the monitoring fitting without obstruction. See the requirements on the [HydrX Fuel Conditioning System Submittal Form \(577014-471\)](#).



## Does HydrX work with Aboveground Storage Tanks (ASTs)?

Yes, provided the tanks meet the criteria defined in the [HydrX Fuel Conditioning System Submittal Form \(577014-471\)](#).



## How does HydrX deal with tank tilt?

The sweep operation mode creates a liquid sweeping motion along the length of the tank floor, which pushes water to the lowest point in the tank. Vacuum mode is then activated, where it will easily pull and filter the water through the Fuel Conditioner.



## What ATGs & STPs are supported?

A TLS-450PLUS or TLS4 ATG with TLS-XB Expansion Box is required to support HydrX. It does work with Veeder-Root and FE Petro® 4" STPs up to 4HP, provided they have a spare pressure port.



## Does HydrX require any new software updates with the TLS-450PLUS and TLS4 ATGs?

A HydrX Software Feature Enhancement is required (P/N: 0332972-032). The TLS-450PLUS and TLS4 ATGs also require software version 10.F or higher to support all HydrX functionality. If you are upgrading an existing HydrX location with a Fuel Conditioning Controller, refer to the [HydrX Fuel Conditioning System - FCC to ATG Conversion Guide \(577014-490\)](#).



## Does HydrX require any new modules within the TLS-450PLUS or TLS4 ATG?

HydrX requires a Universal Sensor Module (USM) with 2 unused inputs and a Universal Input/Output Interface Module (UIOM) with 3 unused relay outputs and 1 unused high-voltage input. If the TLS-450PLUS ATG or TLS4 ATG with TLS-XB Expansion Box has the required spare inputs and outputs (I/O), no new modules will be required.



## What does Intelligent Operation mean?

Intelligent Operation refers to the Auto Run functionality within the HydrX software on the TLS-450PLUS and TLS4 ATGs. If water extraction and any required fuel circulation ends before the programmed Auto Run end time (i.e., no more water is being collected), HydrX automatically shuts down the pump and goes into an idle state. For further information, see the [HydrX Fuel Conditioning System Setup & Operation Manual - ATG Control \(577014-492\)](#).



## Can the magnetostrictive probe that monitors product and water in the diesel storage tank be in a different sump, or must the probe be in the same sump as the STP and HydrX?

Yes, the product probe can be in a different sump, assuming that sump is still part of the same tank.



## How often will filters need to be changed?

The filters have been engineered for optimal life; however, filter life is directly correlated to the amount of sediment and water in the tank and will vary by site. Typical installations are expected to require a filter change every 12 months. The HydrX Fuel Conditioning System continuously monitors filter life, which can be accessed remotely, making maintenance schedules predictable.



## How long does it take to drain HydrX?

The drain flow rate is approximately 1.25 GPM, with a full reservoir it will take 2 - 4 minutes to drain, depending on the model (250D or 500D). Additional time should be accounted for to walk out to the sump, remove the cover, connect the hose via quick connect fitting, and replace the cover after draining the water containment vessel.



## What do I do with the removed water?

The waste water can be added to the oil-water collection system at the site or properly disposed of off-site. The waste water is handled just like dispenser pan or spill bucket water today.



## Can this system support manifolded tanks or manifolded STPs?

Line manifolded and siphon manifolded tanks with STPs are supported, while siphon manifolded tanks without STPs are not supported.



## Will HydrX operate in freezing conditions?

Yes, if the pump can recirculate fluid daily, HydrX will allow for operation in freezing conditions.



## Is tank cleaning required prior to installation of HydrX at existing sites?

Yes, for optimal performance of the HydrX Fuel Conditioning System, it is necessary to reset the fueling system to a healthy baseline, which includes cleaning the tank, replacing the submersibles, and flushing the fuel lines. If the tank is clean to start, the result will be a lower cost of ownership due to less frequent filter replacements, component services, and/or fueling system maintenance.



## Should I use biocides in addition to HydrX?

Biocides, while not a recommended component to HydrX, may be used at the customer's discretion.