



Advanced Wastewater Solutions

HyAir™

# OWNERS MANUAL

For Models:

HA47, HA71, HA138, HA239 and HA1000

March 29, 2019

## About the HyAir™

HyAir™ (HyAir) is a revolutionary, patented air pump station that utilizes a sealed vessel and air pressure for lifting and/or pressure distribution of wastewater. The HyAir pump does not directly contact wastewater. This unique feature provides for easier and safer maintenance and servicing over other available pumps.

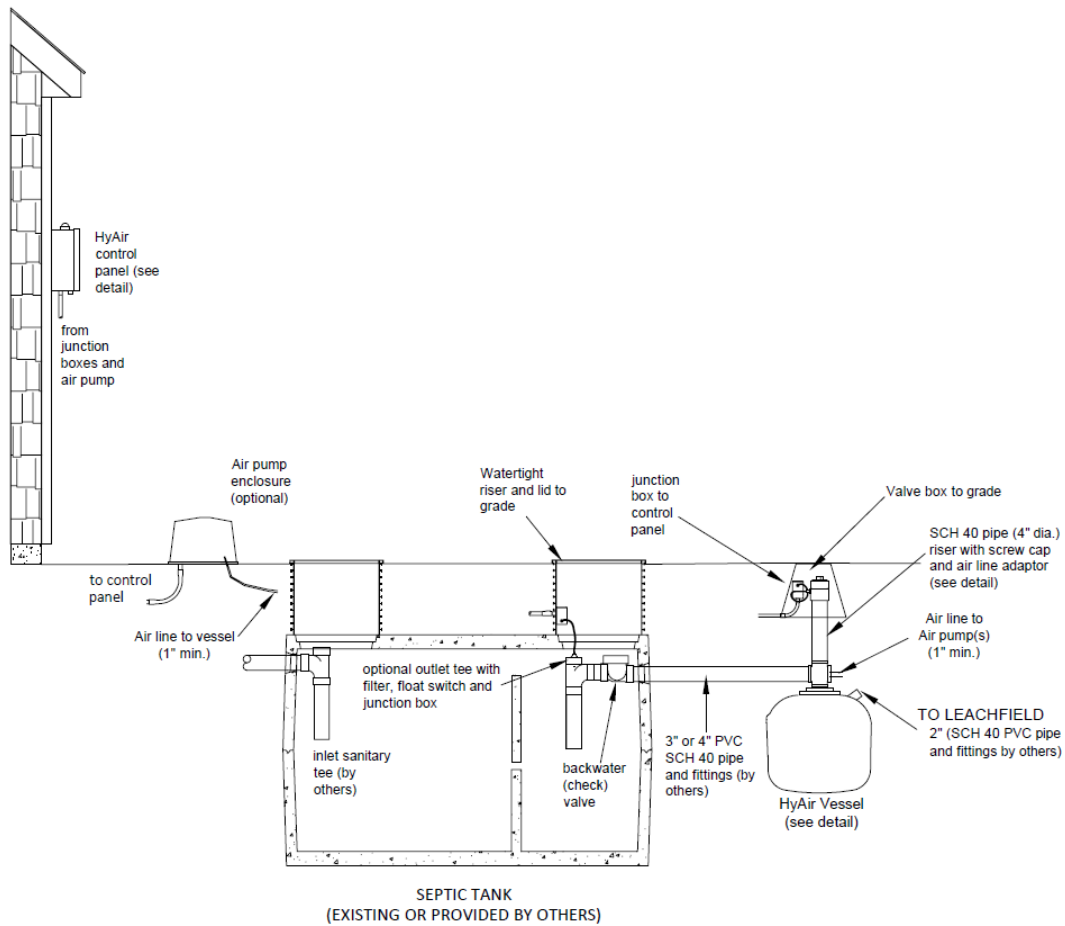
HyAir is typically installed downstream of a septic tank or a treatment train component. When the HyAir vessel receives sufficient wastewater, a level sensor is activated and the HyAir pump engages. The HyAir pump increases air pressure inside the vessel, until it is sufficient to overcome the total dynamic head and begins dosing. After the dose of wastewater has been completed, air flow purges the piping system of water; this, among other benefits, also prevents siphoning.

## Features and Specifications

- Water lifting
- Pressure distribution
- Volume, timed, or micro dosing
- Records doses\*
- Fully programmable
- Displays current status\*
- No mechanical parts in corrosive wastewater
- Easy, clean, and safer air pump replacement or servicing
- Power savings
- Compact
- Battery backup power supply\*
- H-20 wheel load compatible\*
- Anti-flotation kit for high water table installations\*
- Helps reduce organic accumulations in piping and orifices
- Corrosion proof vessel
- Sealed vessel prevents infiltration and inflow

\* (Optional features)

## System Schematic



## System Components

Your system comes with a variety of components that your service provider installed to make your system work optimally. Most of the components are not visible and are underground. The only components you as the homeowner/resident should familiarize yourself with is the "HyAir control panel" and "Air pump enclosure".



## Owner Care and Responsibilities

The HyAir System (Equipment) relies on the use of mechanical components to enhance the performance of your septic system. Like all mechanical components, as well as all septic systems, proper oversight and upkeep is advisable. Routine maintenance of your septic system and Equipment is critical for proper function and performance; and if not performed, could result in damage to the septic system components and Equipment.

You are responsible for future maintenance and repairs to your septic system. You are also responsible for the costs to maintain and repair Equipment that is not covered by Warranty; for example air filter replacement, blower repair, faulty floats etc. You must have your septic tank(s) pumped at the frequency specified or recommended.

Certain events unrelated to the performance of the Equipment can cause your septic system to malfunction, overflow or back up. These system failures may be due to changes in wastewater flow or character, blockages in pipes, uncontrolled storm events, groundwater seepage, system misuse, placing foreign objects or materials into the septic system, effects of motor vehicles or heavy equipment, unforeseen equipment or power failures, etc. Preventing or reducing these situations will help your system maintain proper function and help prevent additional costly repairs in the future.

## Owner Responsibilities:

1. Providing a continuous electrical supply for the operation of the Equipment, including resetting circuit breakers if necessary.
2. Making no substantial increase in the wastewater flow or character (including the timely repair of leaking or running plumbing fixtures).
3. Preventing improper materials from entering the septic system, including non-biodegradable or inorganic items, petroleum products, and other hazardous, toxic, pollutant, or dangerous substances.
4. Discharging hot tub water into your septic system is not advisable; this could overload the system.
5. Providing adequate access to inspect, monitor, and maintain the Equipment.
6. Proper set-up and maintenance of a water softener if in use; the use of a water softener whose backwash/regeneration cycle is based on need, not on a timer is suggested
7. Avoid making holes in or adjacent to the septic system and making changes to the character of cover material over the septic system (including grading, paving, repaving etc.).
8. Prohibiting unauthorized individuals to modify or work on the septic system or Equipment without our prior written approval (including placing additives into the septic system or installing additional equipment on the septic system).

## System Maintenance

Good News! Your HyAir system is designed to be virtually maintenance free. However there are system components that the homeowner/resident can clean to ensure proper function.

1. Clean Air pump enclosure: simply taking a soft bristle brush and cleaning the louvers on the side of the enclosure can prevent unwanted dust and debris from entering the enclosure housing.
2. Have a qualified professional inspect the blowers and air filters. Air filters can be purchased from Geomatrix, LLC.

## Other Routine Maintenance

1. Have the septic tank inspected and the sludge and scum levels checked.
2. Have the septic tank pumped out if these levels are high, normally every three to five years or more often if your system experiences heavy use.
3. Have the Drainfield inspected for holes and air leaks; seal if found
4. Have the floats checked.

## Additional Ways to Care for Your Septic System

1. Reduce the flow of wastewater entering the system by using water conservations devices/ strategies (E.G. low-flow fixtures, low-flush toilets, front load washing machine).
2. Reduce or discontinue the use of your garbage disposal, which adds extra organic matter into the system (compost organic waste).
3. Avoid dumping harsh chemicals into the system.
4. Make sure storm water run-off is diverted away from the Drainfield.
5. Avoid releasing large volumes of water into your system at one time to prevent system overload and potential surface ponding.
6. RI DEM recommends avoiding discharge of water softeners into septic systems. If a water softener is discharging to this system, have water softener serviced regularly



**Note: Always turn off the power supply before working on HyAir equipment. *The blowers can start automatically without warning.***

**If you should experience problems with the equipment, immediately notify your service provider. If the problem is not discovered by your service provider, a service fee will be charged if a site visit is necessary.**

## Frequently asked questions

**Q:** Who is my service provider?

**A:** Your service provider is the company or individual who installed your septic system (e.g. Pumping, excavation, installing company).

**Q:** Will my HyAir system work if my power goes out?

**A:** Your HyAir pump is like any other household appliance and will lose power in the case of a power outage.

**Follow up:** your HyAir may be equipped with an emergency battery backup for such an emergency. Contact your service provider for more information.

**Q:** What is the red light on top of the control box?

**A:** The red light is an indicator light that illuminates when an "Alarm Condition" has been triggered

**Q:** What is an "Alarm Condition"?

**A:** Alarm conditions means there is an issue with your septic system and you should contact your service provider ***immediately***.

**Q:** How much power does my system use?

**A:** The Pump/s and control panel together use less than a medium sized microwave.