

# Wastewater Solutions, Inc.

"Cleaning up the environment one system at a time"



## Hydro-Action Tank Options

Model No.	Waste Processing	Bedrooms
AP-500	500 GPD	3-4
AP-600	600 GPD	5
AP-750	750 GPD	6
AP-1000G	1000 GPD	7-8
AP-1500G	1500 GPD	9

GPD = Gallons Per Day

## About Wastewater Solutions Inc.

Since 1998, when we started in the excavation business, our family owned and operated company has focused on one fundamental goal, to give each customer the best service and quality products available on the market today. This is the reason we entered the Wastewater business. After doing several septic installations, we noticed there was not a quality, efficient and low maintenance system available in the areas we were servicing. After doing extensive research, we feel we have found the best system to date for homeowners, as well as installers.

Wastewater Solutions is unique in its existence, as it is one of only a few companies that is a sole distributor of the manufacturer's product throughout the entire state. We select their product, tailor it to suit Ohio's regulations, then assemble and distribute these products throughout the state of Ohio.

The importance of this is the uniformity in all systems which are produced by only one company, not various dealer networks which can often result in sub-standard quality of materials and assembly procedures. We use the highest standards in quality control. All of our systems are thoroughly inspected and tested before leaving our facility. Each system is completely factory assembled eliminating additional field work.

Wastewater Solutions is always striving for the development of new products to be more cost effective and reduce maintenance issues, and still be current with state, federal, and local regulations. Our goal is to stay as an industry leader for many years to come with continued growth in technology and customer loyalty.

### Hydro-Action Limited Warranty

This Limited Warranty is effective for an initial period of 2 years, beginning on the date of installation. An additional 3 year, prorated warranty period will run upon the expiration of the first 2 years warranty, if the plant is maintained by an authorized distributor through a continuous maintenance program.

### Additional Products from Wastewater Solutions:

- |                            |                            |
|----------------------------|----------------------------|
| Indexing Valve Boxes       | Chlorine & De-Chlorine     |
| UV Disinfection Devices    | Poly Septic Tanks          |
| Polylok Risers & Lids      | Fiberglass Septic Tanks    |
| Polylok Distribution Boxes | Fiberglass Pre-Treat Tanks |
| Effluent Pumps             | Fiberglass Pump Tanks      |
| Grinder Pumps              | Complete Drip Packages     |

### Ohio Onsite Professional:



Assembled and Distributed By:



### Wastewater Solutions Inc.

Aerobic Treatment Septic Systems

20650 Alliance-Sebring Rd.  
Alliance, OH 44601

PH: (330)-823-7536

Designed For



Approved By



hydro-action

Manufactured By:

Hydro Action Industries  
2055 Pidco Drive  
P.O. Box 640  
Plymouth, IN 46563



hydro-action  
green from the ground up

ANSI/NSF Standard 40  
5 Year Limited Warranty



# Hydro-Action Clear Advantages

**High Performance.** The Hydro-Action system outperforms traditional septic tanks in prolonging drain field life, meeting environmental standards, including one and two foot soil depth credits and NPDES discharging requirements.

**Durability.** Water-tight tested fiberglass design, manufactured by a U.S. industry leader with 30 years experience. Our tanks are even tougher and longer lasting than concrete tanks.

**Five Year Limited Warranty.** No need to worry about maintenance, your system will be inspected and serviced twice a year for the first two years. If any defects occur in the first two years our warranty covers them. Thereafter service contracts will be offered and the pro-rated warranty applies.

**Easy Installation.** Our system is a one-piece pre-assembled design allowing for easy installation without setting multiple tanks, and can be set in just one excavation. It is also internally wired and plumbed, allowing for just one power wire to run the entire system.

**Easy Maintenance.** With no moving parts or components inside the tank, and instant access to all operational components mounted in a weatherproof housing, routine maintenance is quick and easy.

**Cost Effective Solution.** With a simpler installation than conventional systems, high adaptability to difficult land conditions, and low operating cost, Hydro-Action is a superior to the competition.

## Advanced Aerobic Treatment Unit (ATU)

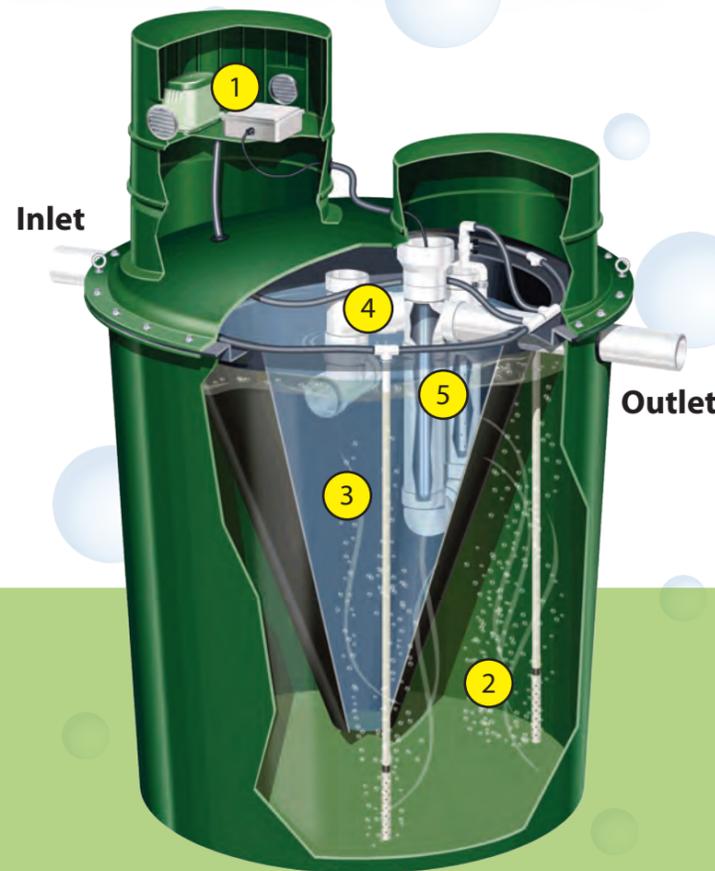
**1 Accessibility.** The control center houses an air pump and a control panel in one convenient weatherproof housing. It is able to conduct all operations and is powered by only a single wire.

**2 Aeration Process.** When effluent arrives, the ATU immediately starts to work. The Aeration compartment is where the clean-up takes place. The air pump injects air through the diffuser lines, into to the wastewater, where oxygenation begins. This encourages the growth of aerobic bacteria which feed on the organic waste and decompose it.

**3 Clarification.** The oxygenated effluent enters the ATU's Clarification compartment, a conically shaped area that separates clarified water from any remaining solids, which settle back to the aeration compartment for further treatment. Clear effluent leaves the Clarification Chamber through the outlet baffle.

**4 Re-Aeration.** During the aeration process the effluent loses some of its oxygen. Therefore the re-aeration chamber diffuses additional oxygen into the pre-treated effluent, using the same air compressor. This is the how the dissolved oxygen gets increased.

**5 UV Disinfection Process.** After re-aeration the pre-treated effluent passes through the UV chamber, around the bulb where ultraviolet rays strike the bacteria which breaks it down it and keeps it from reproducing. This results in the reduction of fecal coliform bacteria meeting EPA/ NPDES discharge limits.



# The NPDES Approved System

The Hydro-Action NPDES approved system is the most complete NSF standard 40 Class 1 treatment system available today. It is approved by Ohio department of health and the Ohio EPA for NPDES discharging systems. There are two system models; a gravity and pump unit, choosing one of these will be dependent on the elevation of the discharge point. Each system will include a pre-treatment tank, an aerobic treatment tank with UV disinfection and optional pump tank, all in one unit. Every factory assembled unit is thoroughly tested for quick onsite installation and accurate operation. The unit arrives to the job site completely assembled which allows for quick, easy and reliable installation with minimal yard damage.

- 1 Pre-Treatment Tank    2 Aerobic Treatment Unit (ATU)    3 UV Disinfection/Re-aeration    4 Pump Tank



AP-500/5+3 NPDES Fiberglass Pump Discharge Unit



CAP-500/75+4 NPDES Concrete Pump Discharge Unit  
Note: Concrete availability is limited to certain areas.

## Wastewater Treatment Engineered With You In Mind

**No Moving Parts Inside The Tank.** The Hydro-action system has no moving parts inside the tank which eliminates messy maintenance and ensures a long lasting air pump.

**Easily Accessible Control Center.** The Hydro-Action control center comes mounted directly on the aeration tank or can be remote mounted in a nearby location. The air compressor and control panel are mounted under a weatherproof housing which allows for easy servicing and protection from the weather.

**No Filters To Be Cleaned Inside The Tank.** Maintenance on the Hydro-Action system is clean and easy. No messy filters need to be removed from system to be cleaned or replaced, which results in lower tank pumping fees.

**Low Operational Cost.** The linear air pump on Hydro-Action system is very quiet and efficient. Located inside the control center housing, it runs at a very low noise level and uses approximately \$7 of electricity per month to operate. When used in combination with the optional UV light it will use an additional \$5 of electricity per month.

**Clean and Odorless Discharge.** This system produces a clear and odorless effluent that meets NPDES discharge requirements, making it safe for your family and the environment.

**Versatility To Be Used In Any Situation.** The Hydro-Action system can be used to compliment many on-site systems including: Drip Systems, Low pressure dosing, mounds, flood dosing & one and two foot soil depth credit systems.

**hydro·action**<sup>®</sup>  
assembled and distributed by Wastewater Solutions, Inc.®