



CLEAN WATER WHEN AND WHERE YOU NEED IT

Remote work sites. Rural communities. Natural disaster zones. And industrial plants with high demand for fresh water, which is limited by constrained space, supply and costs. Each requires a reliable source of fresh water, and a safe and economical way of disposing their wastewater, yet in most of these cases, no infrastructure exists to meet the demand.

The AquaPurgo modular universal wastewater treatment system offers a solution to this challenge. Provided on a skid or built into a self-contained portable shipping container, the system can be quickly deployed to virtually any site and installed in a matter of days. Installation can be either short-term or permanent depending on the requirement. Multiple units can be interconnected to treat high water volumes. The system's compact design allows placement in locations that are not suitable for conventional water treatment facilities such as residential or industrial zones.

A single unit can treat up to 20,000 gallons per day (GPD) of leachate or 100,000 GPD of wastewater depending on the influent and desired effluent quality. The fully automated system requires minimal supervision and operator attention. It is climate- and location-agnostic because it is impervious to adverse effects of weather such as temperature, precipitation or wind. Unlike biological systems, its performance does not rely on, nor is it adversely impacted by weather conditions (nitrification/denitrification). The AquaPurgo system offers consistent and highly predictable performance. It operates with minimal odor, noise nuisance and pollution.

SYSTEM BENEFITS

- **Treatment Flexibility** – Cleans wastewater and water streams up to 16 different desired purity qualities from UF, NF, RO and everything in between. It can produce ultra-pure (Pico meters) or agricultural-quality water leaving nutrients, but removing pathogens, heavy metals and more.
- **Footprint** – Fits in one or more shipping containers.
- **Contaminant-Agnostic** – Removes most or all of the organic, inorganic and pathogens in one pass.
- **CECs, PFAS and Pathogens Removal** – Removes contaminants of emerging concern (CECs), such as per- and polyfluoroalkyl substances (PFAS), microplastics, pharmaceuticals and even endocrine disruptors concentrating them into smaller volume for easy confinement or destruction. It removes pathogens without the need for disinfectants (and possible generation of trihalomethanes) or other disinfecting mechanisms such as UV or Ozone treatment.
- **Factory-Prefabricated** – It is a plug-and-play system with all the plumbing and wiring done and ready to be connected to incoming wastewater, power source and concentrate discharge pipe requiring minimal location disturbance, foundation and site preparation.
- **Minimal Pretreatment** – Can handle substantial amounts of suspended and dissolved solids and uses a simple strainer to remove large solids.
- **Minimal Permitting and Zoning** – Closed-loop system with no exposure of the wastewater to the air, environment or operators.
- **Ease of Monitoring and Operation** – Fully automated requiring minimal operator time and skill set, it can be monitored and operated remotely from a smart phone or a laptop computer.

Containerized footprint
for rapid-deployment,
low-volume industrial
applications and distributed
publicly owned treatment
works

The AquaPurgo modular universal wastewater treatment system is an innovative, state-of-the-art technology that can treat a wide range of waste streams with high solids (up to 50 percent) without the need for prefiltration or staging.

There is no wastewater,
only water with waste in it.



SYNAGRO ADVANTAGE

When you are looking for the best biosolids and residuals solutions to serve your business and your community, Synagro has the proven solutions to help you succeed. Municipalities and industrial organizations like yours that want to make the best use of organic waste turn to Synagro. Across the United States and in Canada, Synagro applies expertise and innovative technology to provide resource recovery solutions that meet the unique needs of customers and communities.

WHO WE ARE

Founded in 1986, Synagro Technologies, Inc. works to turn waste into worth by helping more than 1,000 municipal and industrial water and wastewater facilities in North America move toward safer, cleaner and more environmentally beneficial practices. For some, it's simply cleaning the water supply. For others, it's much more – we partner with them to process their waste for compost or energy pellets, creating healthy soil and sequestering carbon in the process. As the largest recycler of organic by-products in North America, we're trusted because we remove risks while keeping the logistics clean. Because our expertise is the oldest in the business, we can offer tailored solutions that ensure no waste goes to waste. Much of our work isn't pretty. But a greener world emerging from a cleaner one – worth coming from waste – and we think that's pretty beautiful. Visit synagro.com to learn more.

HOW WE CAN HELP

Our professional and experienced staff members provide solutions for all aspects of biosolids and residuals management needs, from land permitting and soil analysis by our nationwide technical services team to facilities development by our in-house engineering staff. Synagro provides a comprehensive scope of customer-focused solutions.



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