



WaterPODTM

Containerized Water Treatment Systems





WaterPOD Containerized Treatment Units from AdEdge Water Technologies have been developed to meet the growing U.S. and International demand for small footprint, cost-effective modular water treatment installations. The fully integrated, pre-engineered, pre-wired, packaged water treatment solution combines system performance with economy resulting in an ideal solution for sites where space, cost, and schedule are critical.

WaterPOD modular enclosures contain one of AdEdge's many types of Packaged Units or APUs treating a wide variety of contaminants for drinking water, remediation, or industrial/commercial applications. Provided in either 20-foot or 40-foot lengths, the WP-20 or WP-40 units can be single, double or multiple units combined to accommodate design flows of up to 1,500 gpm or more.



The treatment systems are designed, custom built and delivered inside the pre-manufactured and customized water tight enclosure. The unit is constructed of painted carbon steel with coated steel overlay on the wooden floor and can include multiple other customizable options including insulation, lighting, ventilation, pedestrian doors, windows, HVAC unit to meet site specific and weather requirements.



Benefits



- Pre-designed, pre-piped and integrated treatment system ready for “plug and play” resulting in a 25 - 50% reduction in installation costs compared to conventional building construction.
- Reduced engineering time and expense.
- Minimal on-site work including mechanical and electrical.
- System inlet/outlet are flanged connections that penetrate the enclosure for simple hookup to the well or water source.
- Power connections are available in 110V, 220V single or 460V, 3P per site requirements.
- Can be placed on a simple foundation or concrete slab base.
- Can be rapidly deployed to meet aggressive project timelines.
- Ideal for remote sites where construction or qualified companies may be less available.
- Reduced permitting time.



Applications:

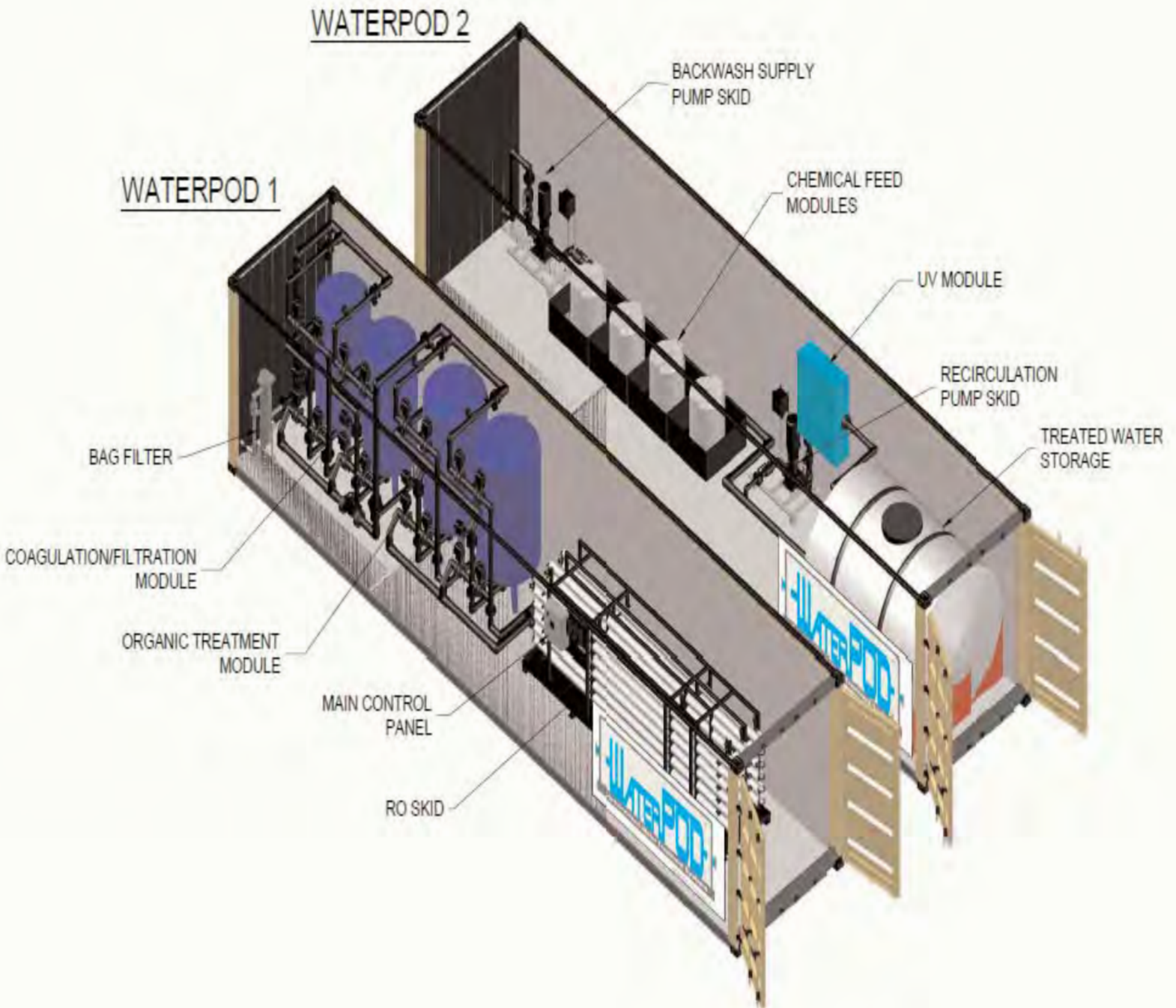
Groundwater or wellhead treatment

Remediation

Wastewater Treatment

Mining

Disaster Relief



AdEdge WaterPod systems remove a variety of contaminants including arsenic, iron & manganese, uranium, radium, nitrates and TDS among others. The WaterPod systems can be customized to your treatment needs in a variety of configurations and treatment solutions.

Featured Projects



Spring Creek Utilities, Elko, Nevada

In June 2011, AdEdge Water Technologies, LLC was contacted by Sunrise Engineering to design, manufacture and startup an arsenic removal system for the Spring Creek Utilities Company located in Elko, Nevada. The existing water system consisted of three wells feeding into a centralized distribution system with a maximum capacity of 1950 gpm and serves a population of 1,500 residents. The AdEdge treatment systems consists of five WaterPod containerized units each housing an ADGS+ coagulation and filtration arsenic removal system. All five WaterPods are integrated with an existing chlorine module to oxidize arsenic (III) to arsenic (V) for optimal removal. The units also integrate with an AdEdge ADIN chemical feed module which injects ferric chloride into the water to supplement the raw water iron concentration to aid in arsenic removal. A CO₂ pH adjustment module is furnished in each WaterPod to reduce the pH from 7.89 to a neutral pH of 7. AdEdge also provided the H2Zero Backwash Recycle system that reclaims 100% of the settled backwash water. The system was started up and began operation in January 2012.

Humboldt Conservation Camp, Winnemucca, Nevada

In June 2008, AdEdge Water Technologies, LLC was contacted by Brown and Caldwell of Carson City, Nevada to assist in the design and selection of an arsenic treatment system for the Humboldt Conservation Camp near Winnemucca, Nevada. Arsenic concentrations at the site fluctuated between 17 ppb and 22 ppb, well above the EPA maximum contaminant level (MCL) of 10 ppb. The AdEdge treatment system features an adsorption package unit enclosed in a WaterPod modular containerized building sized for a maximum design flow of 260 gpm. The adsorption system utilizes AdEdge's granular ferric oxide media. The system is fully integrated with an AdEdge ADIN chemical feed system which provides a continuous stream of sodium hypochlorite to the water to oxidize the GFO media. The system was started up and commenced in October 2010. Since the system began operation, arsenic levels have lowered from 17 ppb to non-detectable levels.





AdEdge Water Technologies, LLC

5152 Belle Wood Ct. Buford, GA 30518

Toll Free 1-866-823-3343 Fax 678-835-0057 info@adedgetechnologies.com

www.adedgetechnologies.com