



AquaHarvest **Technologies**



Specializing in the design and manufacturing of large scale integrated water harvesting systems for every type of commercial, industrial, landscaping, and municipal application.

Reclaim»Treat»Reuse»Sustain

A Product of Metropolitan Industries, Inc.
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AquaHarvest Technologies

Providing Water Harvesting Expertise On Large Scale Applications



No application is too large, complicated or challenging. All of these massive facilities have potentially enormous sources of water, which can be harvested, treated and reused, replacing costly and often precious, limited potable water sources.

- Data centers
- University campuses
- Sports stadiums & arenas
- Hospitals & medical centers
- Industrial process facilities
- Shopping malls
- Public schools
- Landfills
- Fleet vehicle wash facilities
- Industrial laundry facilities
- Hotels & vacation resorts

Single Source Integrated Systems Feature Limitless Treatment Filtering And Pressurization Methods



Our decades of expertise in the water industry will result in practical and cost effective solutions to every large water wasting situation. Our staff of experienced sales engineers, integration specialists, design engineers and service technicians will help to determine the appropriate storage, filtering, treatment and pumping methods. Common methods include:

- Buried storage vessels
- Above ground tanks
- Indoor water reservoirs
- Skid mounted filtering stations
- Buried filter vaults
- Underground pressurization stations
- Chlorination, UV, ultra-filtration, ozone disinfection, etc.
- Complete packaged pumping, filtering & treatment skids
- Fully enclosed housed systems with environmental controls

Project Spotlight:

Data Center - North Carolina

An integrated rainwater collection, storage, pressurization, filtration, purification, & treatment system.

Objective:

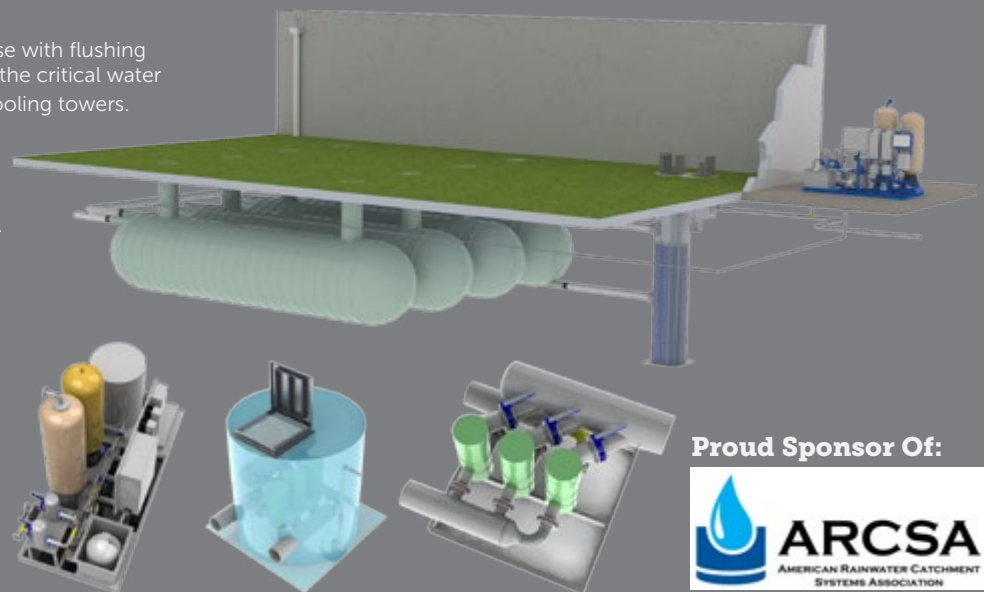
Provide a rainwater harvesting system, designed for use with flushing plumbing fixtures; as well as an emergency source of the critical water needed to provide make up flow to the data center cooling towers.

Solution:

AquaHarvest Technologies designed all of the critical sub-systems, and ensured that all modules of the system were precisely integrated to operate in unison.

Specifications:

- Triplex Underground Pre-Filter Vault
- Four (4) 10,000 Gallon Buried Storage Reservoirs
- Duplex Underground Prefabricated Pressurization Station
- Indoor Packaged Treatment System:
 - Process Controller
 - Variable Frequency Drives
 - Dual 5 Micron Filters
 - UV Disinfection Chamber
 - Chlorine Injection System
 - Residual Contact Chamber
 - Dye Injection System
 - Flow Diversion Valve
 - Hydropneumatic Tank
 - Reservoir Fill Make Up Water System



Proud Sponsor Of:



Capabilities & Features:

Capture Wasted Water Resources From A Multitude Of HarvestZones™



AquaHarvest Technologies designs and delivers single source integrated water reuse systems to capture and treat water which would otherwise be wasted. Typical HarvestZones™ include:

- Rainwater
- Graywater
- Subsoil drainage
- Surface runoff
- Mechanical drainage
- Industrial process waste
- Snowmelt collection
- Landfill leachate

Clean Drinking Water Isn't Necessary For Every Process



AquaHarvest Technologies will help you find the best places to use the water you've harvested:

- Flushing washroom fixtures
- Filling cooling towers
- Water features & fountains
- Firefighting water storage
- Washing trucks, busses and other vehicles
- Filter backwash-water
- Landscape irrigation
- Industrial process cooling

Project Spotlight:

University Performing Arts Center - Illinois

An integrated subsoil-drainage collection, pumping, storage, pressurization, filtration, purification & treatment system.

Objective:

Provide a subsoil-drainage collection system, designed for use with flushing plumbing-fixtures.

Solution:

AquaHarvest Technologies designed all of the critical sub-systems, and ensured that all modules of the system were precisely integrated to operate in unison.

Specifications:

- Duplex Subsoil-Drainage Pump-Station
- 4,000 Gallon Buried Storage Reservoir
- Indoor Packaged Treatment System:
 - Process Controller
 - Variable Frequency Drives
 - Dual Pressurization Pumps
 - Dual 5 Micron Cartridge Filters
 - UV Disinfection Chamber
 - Chlorine Injection System
 - Dual Residual Contact Chambers
 - Dye Injection System
 - Automated Flow Diversion Valve Station
 - Hydropneumatic Tank
 - Reservoir Fill Make Up Water System





Control System Engineering, Manufacturing & Programming

AquaHarvest puts technology to work for every system we build. We use state-of-the-art control technologies and techniques to control all functions of the water harvesting systems. All systems are fully functional with integrated packages or modules, designed to work as one. We currently possess 13 UL listing categories for various products and procedures. We've established a controls department focused on delivering customized solutions that provide flexibility, simplicity and maximum operational control of each integrated system we provide.



Mechanical & Hydraulic Engineering & Custom Fabrication

We continually expand and upgrade our manufacturing and fabrication capabilities to meet the challenges of the quickly expanding water harvesting marketplace. Using CNC machine tools and precision welding equipment, our 100,000 square foot manufacturing facility can build any system, of any size. Our experienced staff will help to determine the correct and most sensible methods necessary to collect, store, filter, treat, pressurize and reuse the wasted water at any water harvest zone.



Fully Enclosed Housed Systems With Built-In Environmental Features

AquaHarvest Technologies strives to provide facility owners, end users and installing contractors with high quality products fully factory assembled to ensure seamless installation. Our custom engineered housed systems can be provided in a variety of materials and options. They are shipped to the project site fully pre-piped, pre-wired, pre-tested and ready to be lowered into position for immediate connection to existing connection points. A wide variety of exterior features, facades and finishes can be provided to fit any aesthetic or environmental requirement. The buildings are provided with all necessary lighting, heating, cooling and ventilation systems built-in.