



ECOVIE Commercial Rainwater Collection System

Application:
HVAC cooling system

Project Location:
Atlanta, Ga.

In addition to rainwater, large buildings can generate a large amount of HVAC condensate which is clean and very usable in a rainwater system. One employee at the St. Joseph Medical Center in Atlanta noticed a lot of condensate going down the drain and decided to do something about it. The center was able to secure grant funding to have Ecovie design and install a system for them to irrigate their grounds.

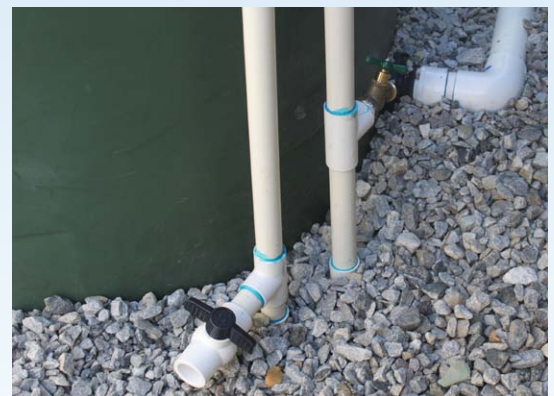
Due to the high amount of condensate being generated on a daily basis, it was possible to size tanks smaller than normal. 2,000 gallons storage capacity was determined to be optimal for return on investment. In addition to the hundreds of gallons daily from condensate, 7,000 square feet of roof catchment feeds rainwater to the tanks. A submersible pump delivers water to the irrigation system and there's a city water back up in case the tanks are empty.



Above ground active collection system



HVAC intake route



Outsource valve

Project Summary:

Collection Square Footage: 7,000 sq. ft.
Tank Capacity: 2,000 Gallons
Projected Annual Water Supply: 248,000

The system supplies over 100,000 gallons a year with a payback of well under 3 years. With their \$3,000+ annual savings, this simple system has met the objectives envisioned.