

**Rainwater collection system – Montgomery County Extension Office – Conroe, Texas  
Gravity fed system with 12 VDC motorized ball valve, and automatic timer.**



The system is a 2000 gallon black poly tank that irrigates a 1000 sq. ft. floral bed. The system is gravity fed, and uses ½” poly pipe with inline emitters.

The tank was wrapped in cedar, using steel bands and tensioning screws. The battery and timer are in the small enclosure.



A first flush filter with a floating check valve is attached to the gutter collection pipe. The stand pipe uses a self draining “dribble” valve to empty the pipe after the rain.



There is a "ball" type float valve to allow for automatic minimum water level control of about 24" in the tank.

A 12 VDC motorized ball valve, and 12 VDC timer is used for irrigation control. The battery is charged by a small solar charge controller and solar panel.

