

SMART GREYWATER SYSTEM

Description

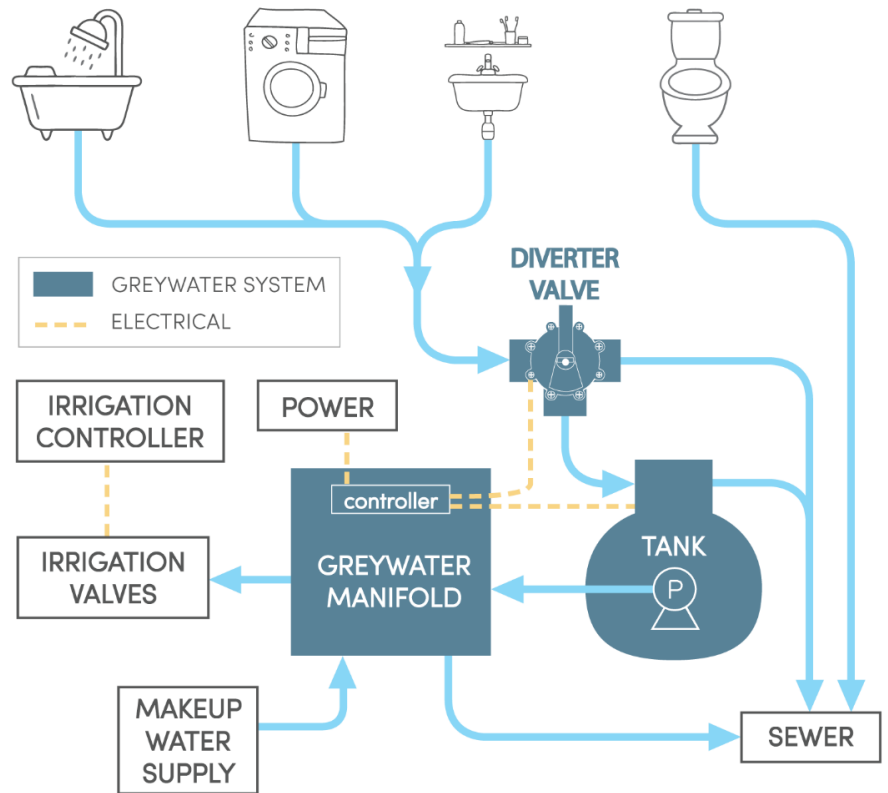
The Smart Greywater System collects greywater from a house or building and supplies filtered greywater to the landscape drip irrigation system. A complete solution for the water-wise landscape, the system can save tens of thousands of gallons a year! The Smart Greywater System is easy to install and is ideal for renovation or new construction projects.

Applications

- Residential
- Light commercial
- Large irrigation systems

Features

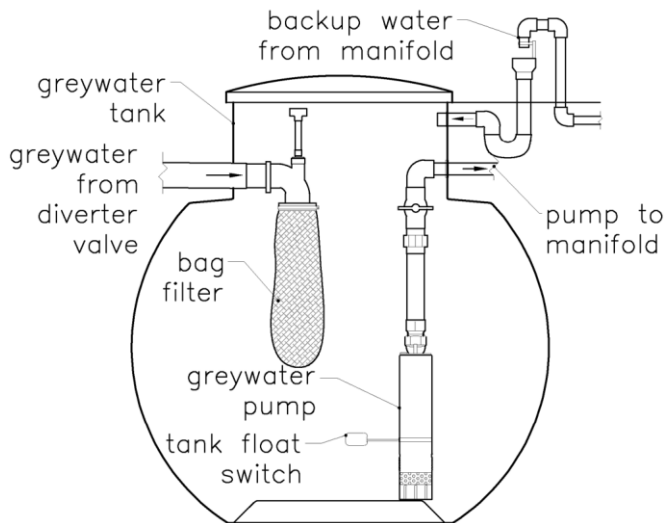
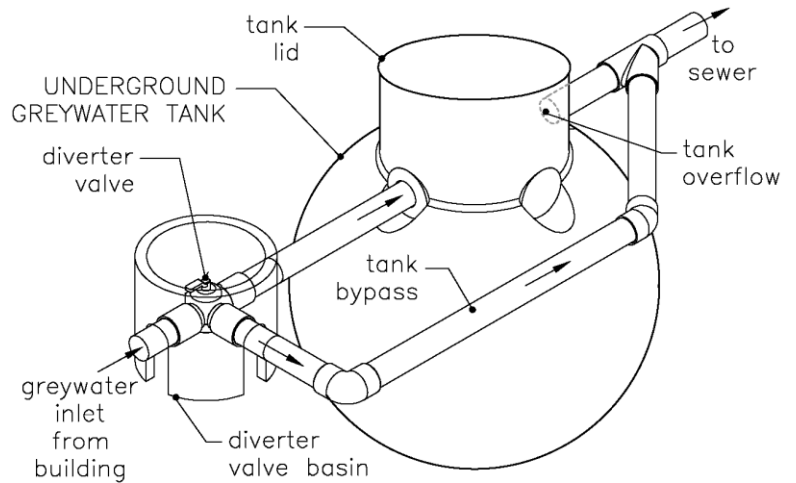
- **Proven Track Record:** 15 years of R & D with hundreds of successful installations.
- **Plug & Play Installation:** Greywater Manifold is factory built. Simply connect water, power, plug in the controller and you are ready to go!
- **Seamless Irrigation Integration:** Operates the same as a traditional irrigation system and is compatible with standard irrigation system equipment.
- **Smart Controller Compatible:** Works with all irrigation controllers, including smart controllers.
- **Greywater Ready:** Can incorporate another water source like rainwater or well water. Ask us more.
- **Low Maintenance Requirements:** Only once a year maintenance visit required!
- **Fully Automated Functionality:** No user involvement is required for system operation.
- **Clog-Free Filtration:** Greywater irrigation filter is automatically cleaned to reduce maintenance.
- **Complete Water Monitoring:** Keep track of the system water savings and irrigation flow rates.
- **Smart System Diagnostics/Alarms:** Receive system performance notifications on the Greywater Controller.
- **California Code Ready:** Fully compliant with California Plumbing Code for Greywater.
- **Advanced Monitoring: (Optional)** Upgrade to see water savings on an internet dashboard in real time!



How It Works

1 Greywater Collection

Greywater from showers, laundry and bathroom sinks drain to a 3-way diverter valve located in an underground valve basin. The diverter valve drains to the Greywater Tank or bypasses the tank and sends greywater to the sewer. The diverter valve is fitted with an automatic actuator that is operated by a switch on the Greywater Controller.



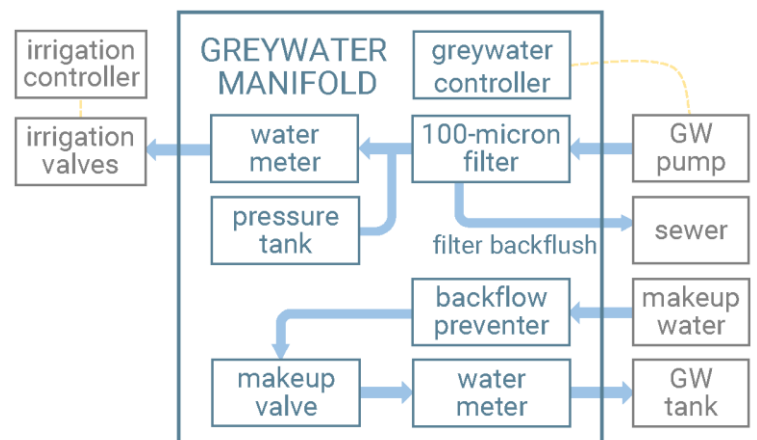
2 Greywater Tank

Greywater is temporarily stored in an underground tank totaling 250 gallons. Greywater entering the tank is filtered through a coarse 1200-micron bag filter. A pump in the tank sends the greywater to the Greywater Manifold.

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3 Greywater Manifold

Greywater is pumped to the Manifold and passes through an additional 100-micron filter before being supplied to the irrigation system. Makeup water is automatically supplied to the greywater tank if no greywater is available. The Greywater Controller mounted on the Manifold automates the greywater system.



Greywater Filtration Manifold

Overview

The manifold is delivered as a pre-built turnkey system to the project. Simply connect water piping and power and the system is ready to supply a constant pressure of 45 PSI minimum at a maximum flow rate of 15 GPM to the irrigation system.

Greywater Controller

The Greywater Controller automates the entire system and provides a LCD screen for programming and displaying system information like alarms and water-use.

Greywater Filter

Greywater supplied to irrigation is filtered through a 100-micron filter. The filter is automatically backflushed based upon how many gallons has passed through the filter. Filter flush water is sent to the sewer.

Makeup Water

If the greywater tank is empty, makeup water is added to the tank through an air-gap backflow preventer to maintain a minimum water level for the pump.

Water Monitoring

Water meters track greywater and makeup water used by the system with the information displayed on the controller's screen. The flow rate is also displayed when water is being used.

Technical Details

Maximum Greywater Drain Size From Building:	3" drain pipe
Backflow Preventer:	Air-gap
Makeup Water Supply:	1.25" supply, 30 PSI static min.
Electrical Supply:	120VAC 15A circuit
Sewer Drain for Filterflush:	3" drain pipe
Maximum Drip Zone Size:	15 GPM
Maximum # of Zones:	unlimited

Supply to Irrigation:	15GPM@ 45PSI
Greywater Processed:	up to 320 GPD (8 ppl.)
Tank Storage Capacity:	250 gallons
Greywater Filtration:	100-microns
Maintenance Interval:	once per year
CA code compliant:	Yes
Pump:	½ HP, 120vac@ 10.6A
Controller:	120vac@ 1A
Warranty:	1 year

