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: 10 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’re ready to go!
• Seamless Irrigation Integration: Operates the same as a traditional irrigation system and is compatible with standard irrigation systems equipment
• Smart Controller Compatible: Works with all irrigation controllers, including smart controllers
• Rainwater 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 filter is automatically cleaned to reduce maintenance
• Complete Water Monitoring: Keep track of the system water savings and irrigation flow rates
• Advanced System Diagnostics/Alarms: Receive system performance notifications on the Greywater Controller
• California Code Ready: Fully compliant with California Plumbing Code Chapter 16
• Advanced Monitoring: (Optional) Upgrade to see water savings on an internet dashboard in real time

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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.

3. **Greywater Manifold**
   Greywater is pumped to the Manifold and passes through an additional 100 micron filter before being supplied to the irrigation system. Backup 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 Manifold Details

**Greywater Controller**
The Greywater Controller automates the entire greywater system (operates pump, backflushes filter, tracks water usage, displays system information & alarms).

**Pressure Sensor**
The Greywater Controller maintains a constant water pressure of 45-65 psi to the irrigation system.

**Greywater Filter**
Greywater is filtered through a 100 micron filter at the Manifold. The filter is automatically backflush based upon how many gallons has passed through the filter. Filterflush water is sent to the sewer.

**Backup Valve**
If the greywater tank is empty, the Greywater Controller opens the backup valve to partially fill the greywater tank to maintain a minimum water level for the pump.

**Water Meters**
The water meters track both greywater and backup water use and displays the information on the Controller LCD screen. The flow rate of the irrigation system is also displayed on the LCD screen.

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**Technical Specifications**

<table>
<thead>
<tr>
<th>System Requirements:</th>
<th>Performance:</th>
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<tbody>
<tr>
<td>Maximum Greywater Drain</td>
<td>Maximum Pressure Rating: 150 PSI</td>
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<tr>
<td>Size Form Building: 3” pipe</td>
<td>Supply to Irrigation: 16 GPM @ 45 PSI max.</td>
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<tr>
<td>Backup Water Type: Indirect to greywater tank via air-gap</td>
<td>Greywater Processed: up to 320 gallons per day (8 ppl)</td>
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<tr>
<td>Backup Water Supply: 1.25” pipe size, 30 PSI static min.</td>
<td>Tank Storage Capacity: 250 gallons</td>
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<tr>
<td>Sewer Drain for Filterflush: 3” pipe</td>
<td>Greywater Filtration: 100 micron</td>
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<tr>
<td>Maximum Drip Zone Size: 16 GPM</td>
<td>Maintenance Interval: once per year</td>
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<td>Maximum # of Zones: unlimited</td>
<td>CA Code Compliant: yes</td>
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<tr>
<td>Warrant: One-year parts warranty</td>
<td>Electrical Load: Pump: ½ HP, 120VAC@ 10 amps</td>
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<td></td>
<td>Controller: 120VAC@ 1 amp</td>
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