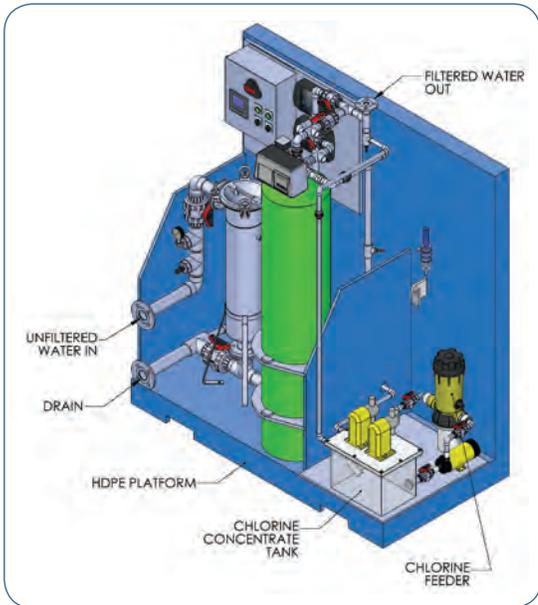




wahaso™

WATER HARVESTING SOLUTIONS



## Custom Greywater Processing Systems from Wahaso

Greywater captured from showers, sinks and light commercial processes can be safely reused (harvested) for non-potable applications like toilet flushing and irrigation. But the contaminants and biological activity inherent in greywater require specialized filtration and sanitation steps to ensure the acceptability and safety of the treated water.

Wahaso engineers systems for commercial properties that are tailored to the specialized requirements for greywater harvesting.

### System Features

*Minimum holding time for untreated greywater.* Raw greywater is treated as it is generated to minimize the growth of harmful pathogens.

*Automated Sanitation System.* Wahaso's proprietary chlorination system generates liquid chlorine from safe-to-handle dry calcium hypochlorite tablets. Residual chlorine levels are monitored and maintained automatically.

*Multi-Stage Filtration System.* Wahaso's two-stage filtration system is designed to efficiently remove contaminants in the greywater while minimizing system maintenance. Stage 1 removes larger particulates like hair and dirt while Stage 2 polishes the water for clarity, effectively removing all particulates greater than 10 microns in size.

*Automated Controls and Reporting.* Wahaso's proprietary control system monitors and tracks system activity and reports data and alarms locally and to Building Automation Systems through BACNET or MODBUS.

*Integrated System Design.* Wahaso's greywater processing skids are integrated into comprehensive system designs that include all pumps, storage, filtration and controls. Systems are pre-built on skids, tested and then delivered ready for installation.

*Support and Warranty.* Wahaso's systems include support from our engineering team before, during and after installation. A limited warranty covers the entire system for a year.

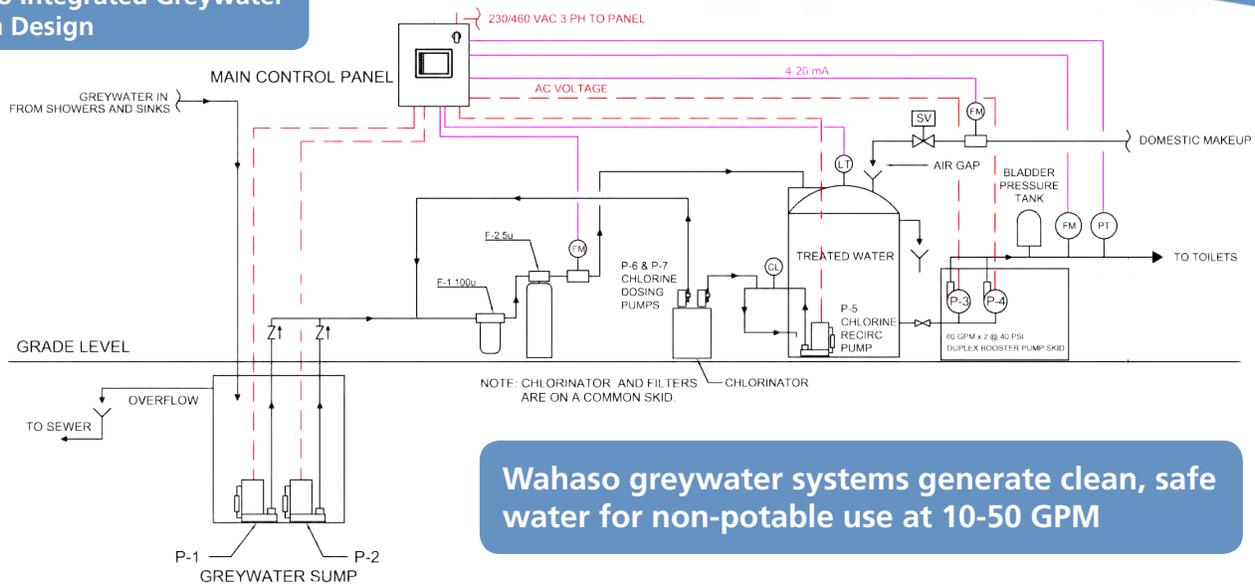




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**Wahaso Integrated Greywater System Design**



**Wahaso greywater systems generate clean, safe water for non-potable use at 10-50 GPM**

Wahaso GW Series Greywater Processing Systems use two stage filtration and two stage sanitation to provide safe and consistent on-site treated non-potable water for reuse in toilet flushing, irrigation and other applications.

Integrated with Wahaso's Series 100 proprietary control system, the entire process is fully automated with remote monitoring and alarm capability standard.

SPECIFICATIONS							Processing Skid Dimensions (Inches)		
Model#	Processing Capacity (GPM)	Gallons Per Day*	Inlet PSI	Outlet Filtration (Microns)	Inlet Size (From Sump) Inches	Outlet Size (To Tank) Inches	Length	Width	Height
GW-600	10	7,200	35	10	2	1	72	36	84
GW-1200	20	14,400	35	10	2	1.5	72	36	84
GW-1800	30	21,600	35	10	2	1.5	96	36	96
GW-3000	50	36,000	35	10	2	2	96	36	96

\*Effective daily capacity based on 12-hours of building use.

**Technical Notes:**

Sequence:

Raw Greywater is pumped to the processing skid at 35 PSI.

In the first sanitation stage, chlorine is injected into the stream before filtration.

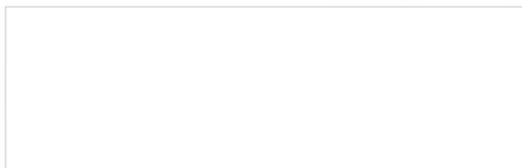
Stage 1 filtration removes debris larger than 100 microns.

Stage 2 filtration uses a multimedia bed to polish water to 10 microns or less. Second stage filtration is self-cleaning.

Discharge water exceeds NSF standards for maximum levels of 2.2 MPN/100 ml mean average coliform

Treated water is deposited in a holding tank for staging before use.

In the second sanitation stage, chlorine levels in the holding tank are monitored and adjusted to maintain residual levels within a pre-set range to ensure the safety of the treated water.



**Controls:**

Wahaso Series 100 Control System monitors and data logs incoming flow rate, volume, and pressure. Out of tolerance parameters prompt alarms and alerts.

Automatic injection of first stage sanitation is based on flow volume to greywater processing skid.

System Differential Pressure monitored for First Stage Filter and alarm and alerts issued when service is required.

Second stage filter is self-monitoring and self-cleaning. Automatic back flush occurs on differential pressure or every 10 days to automatically keep filter in proper operating condition.

Chlorine residual for second stage sanitation is automatically maintained by user selectable rate between 0.5 and 2 PPM.

For safety, system automatically reverts to municipal water source in low-level condition or with the occurrence of a critical alarm or system fault.

Volume of water processed, hours run, chlorine residual, and other key parameters are automatically data logged and communication with Building Automation Systems through BACNET or MODBUS is standard.