



wahaso™

WATER HARVESTING SOLUTIONS

Packaged Rainwater Harvesting Systems from Wahaso

Wahaso RW-UV30-300 and RW-UV30-500

Save water with these turnkey, commercial-grade systems that are pre-assembled for easy installation.

In most commercial buildings, 50% - 90% of the water usage goes toward toilet flushing, irrigation and cooling tower make-up. These applications, while necessary, do not require potable or "drinking" quality water.

A rainwater harvesting system from Wahaso can capture and treat rainwater to a non-potable standard that is perfectly suitable for these applications. The result is a sustainable solution that saves both water and money.

DESIGN

The RW-UV30-300/500 systems are design for easy installation. All components are pre-assembled, pre-plumbed and pre-wired onto a single skid. The system includes final filtration, sanitation, a processed water holding tank, booster pumps and controls. The system comes standard with either a 300 gallon or 500-gallon processed water holding tank ("day tank"), and the Wahaso Control System.



The pre-filter and storage cistern are not included as standard. The type and size of these components are variable and should be customized to each project. Contact Wahaso for assistance in specifying the right pre-filter and cistern for your project.

TREATMENT

While rainwater can be a relatively clean supply source, it does require proper treatment to meet strict regulatory and commercial building requirements. The Wahaso RW-UV30-300/500 offers a turnkey, set-in-place solution with multiple levels of treatment that provide a safe supply for non-potable applications.



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At Wahaso our engineers incorporate the very best filtration and sanitation in our designs. Our goal is to produce the most reliable rainwater harvesting systems available.

FILTRATION The Wahaso system contains a two-step filtration process. The first step is a mechanical filter that removes particulates down to 50 microns in size. This filter is self-cleaning and will automatically back flush as needed based on a timed cycle or differential pressure. The second step is a bag filter that polishes the water, removing any remaining particulates down to 5 microns in size.

SANITATION Ultraviolet (UV) is used post-filtration to sanitize the water and keep it clean in the processed water holding tank. Consumables such as chlorine residual used for toilet flushing applications are added when required.



WAHASO UV SYSTEM

BENEFITS

- **FULLY AUTOMATED PROCESSING** When rainwater is available in the storage cistern, the system will automatically process and store treated water in the holding tank. Should the rainwater cistern be empty, municipal make-up is automatically added into the holding tank through an air gap.
- **LOW MAINTENANCE** The Wahaso system is designed to require minimal maintenance. The primary filter backwashes automatically; an alarm is sent when the secondary filter requires changing; and the UV bulbs are replaced every 12-18 months.
- **ROBUST CONTROLS WITH REPORTING** Wahaso's proprietary Control System monitors and manages all system activity. Data and alarms are reported locally and communicated to the Building Automation System through BACNET or MODBUS.

Note: The RW-UV30-300 and 500 are designed to meet a wide range of applications for water reuse, however, this system may not meet all applications. Wahaso specializes in custom systems that can meet any type or size of project.

Please contact Wahaso and let us design a system that best fits your needs.