



wahaso™

WATER HARVESTING SOLUTIONS

Packaged Rainwater Harvesting Systems from Wahaso

Wahaso RW-UV20-0 Models E & S

Save water with these turnkey, commercial-grade systems ready for installation in your facility.

Complete commercial-grade processing systems for treating and pressurizing captured rainwater or condensate at a rate of up to 20 GPM and 80 PSI.

Ideal for harvesting rainwater for small commercial applications:

Spray and drip irrigation systems with combined zones needing 20 GPM or less, typically 1,000-7,000 gallons per day.

Flushing up to six toilets or urinals in small office building or other public building.

Supplementing cooling-tower make-up with up to 15-20 GPM (Up to 10,000 gallons per day).

- Use with existing rainwater storage system or work with Wahaso to supply the most economical collection system for your site.
- Backed by Wahaso's engineering experience with over 1,500 projects in 36 states and Canada, and a one-year warranty on components.
- System is housed in a NEMA 4X watertight enclosure suitable for outside placement mounted to a wall, corrugated tank or anchored struts. Unit is 40" w x 50" h x 12" d. Connections and set-up are simple, and do not require special knowledge of reuse systems.

TREATMENT A three-step filtration and sanitation system includes dual bag filters and UV sanitation.

PRESSURIZATION Commercial-grade Grundfos pumps are industry-standard stainless steel and include variable frequency drive to match pump pressure and GPM supply to demand.

- **Model RWS UV20-0** is designed with a submersible pump located at the base of the cistern or in a wet well connected to a cistern or other water source.
- **Model RWE UV20-0** is designed for water stored above-ground with flooded-suction provided to the pump located in a separate aluminum enclosure.
- Requires 15 AMP circuit 1-phase power.
Pumps typically draw less than 10 AMPS at 240 VAC.

CONTROLS: Commercial-grade, U.L. listed Wahaso Controls monitor and activate system operations, housed in a separate NEMA 4 enclosure. Unit is 24" w x 20" h x 12" d.

Controls have the following features:

- Monitors status and alarms
- Manages pump operation
- Monitoring of digital level sensor in cistern
- Municipal make-up logic and control
- Tracking of total harvested water produced
- Building automation system or remote connectivity available for an extra fee



**Wahaso RW-UV20-0
Installed Unit**



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Municipal Water Make-Up An automatic valve is included with each system for reverting to municipal water supply and pressure when cistern is empty or an operational issue occurs. *

*Requires a 1.0" municipal water supply protected by an RPZ backflow prevention device (by others).

Make-up methodology may not be permitted in jurisdictions requiring an air-gap separation from non-potable water systems – check local codes. Air-gap option available.

MAINTENANCE The system is designed to require minimum maintenance for weeks or months at a time.

- Bag filters are easy and inexpensive to replace every few weeks or months, depending on stored water quality. Differential pressure indicator provides an alert when bags need replacement.
- Ultraviolet sanitation system operates 18,000 hours, or nearly two years of continuous operation.



Pump and Enclosure for Model RWE-UV20-0

Included Standard:

- Wahaso RW-UV20-0 NEMA 4X cabinet with filtration system, UV other components. Thermostatically activated ventilation extra.
- All listed components come pre-assembled, wired and plumbed with Schedule-80 PVC piping, tested at our facility.
- Wahaso Controls in NEMA 4 box with PLC operational software.
- For Model RWE, Insulated pump enclosure.
- Includes installation and operations manual.
- Wahaso technical support via phone for installation, start-up and operational questions.
- Limited one-year warranty on all supplied components.

Not Included in this System:

- Pre-filter and water storage cistern. These are additional and customized to each location. Contact Wahaso for options and pricing.
- All plumbing to and from system or other components. Any skilled and licensed local plumber can install the system.
- Electrical connections to Controls enclosure and wiring to remote pump.
- Level sensor wiring from cistern to Controls enclosure.
- Thermostatically-controlled fan for treatment enclosure – available option
- Building Automation System (BAS) connectivity – available as option.
- Local permits or fees.
- On-site installation or start-up support available as an option.
- Municipal water supply line must be protected by an RPZ backflow prevention device provided and installed by a qualified plumber.

Notice: These packaged systems are designed to meet a wide range of applications for water reuse supply and demand. Wahaso also specializes in custom-designed systems that can meet any size and type of water reuse. Please contact us and let us design a system that best fits your needs.