

# CARIPUR<sub>H2O</sub>

## CARIPUR H2O WHOLE HOUSE SMART WATER PURIFIER

Caripur H2O is a line of whole house drinking water purification systems ready to operate “out-of-the-box,” removing microbes, chemicals, and metals from drinking water. Caripur H2O is an Internet of Things (IoT) device that provides information on water quality using our proprietary Binary Star technology. Our devices report to the cloud, providing control and access via desktop or app.

The system is factory assembled and housed within a weather-proof 304 stainless steel or polypropylene copolymer case and includes an internal membrane disinfection system, laboratory-on-a-chip water quality sensing, self-cleaning capabilities, and predictive analytics capabilities.

Even though it is essentially an in-line filter, utilizing external forces (well pump, cistern pump, water authority feed), to push water through it, Caripur H2O was designed to operate should those sources fail. It can run using its own internal pumps on AC/DC, solar energy, and/or an internal rechargeable backup battery. This capability gives our technology the ability to provide drinking water, even when there is no power.

### FEATURES

- > Rated for between 3 and 20 GPM at 55 PSI \*
- > Internal minicomputer operation
- > Binary Star technology embedded
- > Single point power connection, which includes solar
- > 10-Micron replaceable external bag filter for input water
- > 0.02-Micron ultrafiltration membranes internally
- > External long-life bacteriostatic carbon block filter on output
- > Wireless and Bluetooth communication
- > 304 Stainless steel or polypropylene copolymer case
- > IoT connectivity
- > System, water, and environment monitoring

\* 60 PSI maximum pressure at backup pump discharge. The pressure drop across the unit is typically 25 PSI max.

### CONFIGURABLE OPTIONS

- > 2" PVC, copper, or stainless steel piping
- > Input voltage (U.S. and Canada)
- > Automatic flushing
- > 100% organic disinfection
- > Magnetic flow meters
- > Customized programming, monitoring, and maintenance of external filters

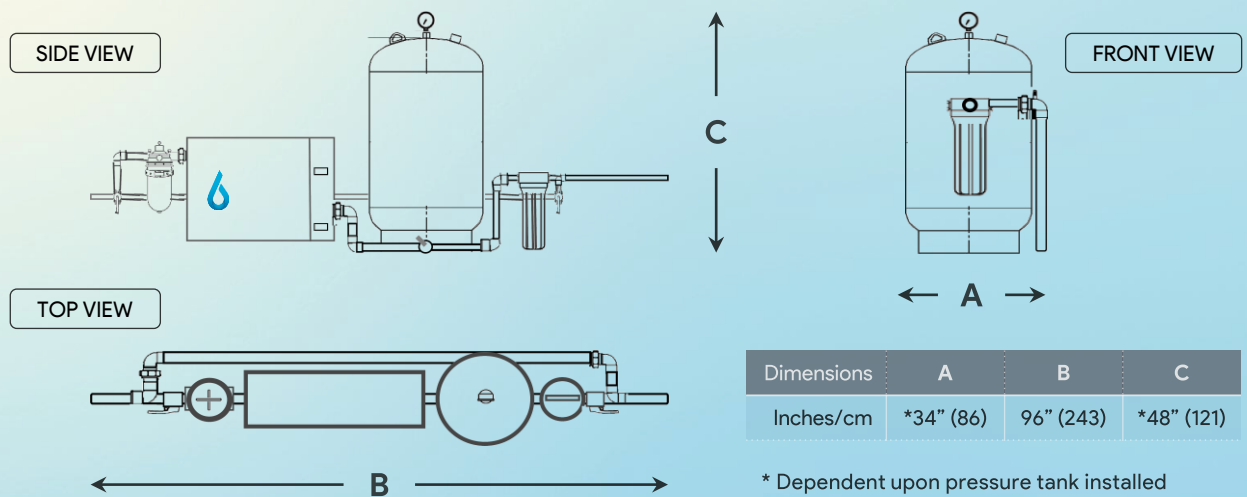


# Principles of Operation

Rainwater is filtered using multiple 0.02-micron ultrafiltration membranes, one 10-micron high-capacity bag filter, and 1-2 carbon block cartridge filter(s). Water is then discharged to the end user. Isolation valves, a pressure relief valve, and a sampling port are included. The internal minicomputer operates the rainwater purification unit using machine learning coding based upon the complete system design and equipment selected. Users manage and operate the system through an iOS and/or Android mobile app interface. Additional management and data tracking are provided using 2.5 GHz 802.11ac wireless and Bluetooth 5.0 BLE.

Bondurant offers a variety of additional equipment, including pre-filters, diaphragm tanks, and other equipment as necessary for a fully functional rainwater harvesting system. Contact Bondurant for a comprehensive project submittal package.

Example diagram of CPH204.8 with external disk and carbon block filter:



The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.



## ATTENTION

Bondurant rainwater systems are intended for potable water applications. Replacement and cleaning instructions for the external filters should be followed exactly to avoid producing unsuitable drinking water.

Bondurant product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Bondurant Support. Bondurant reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Bondurant products previously or subsequently sold.

