

Caripur H2O

CHP010 Rainwater Purification System

Specification

Rainwater Purification Systems are packaged systems that integrate filtration, purification, self-cleaning, system and environment monitoring and control of a residential/commercial rainwater harvesting system in a compact and easily service-able footprint. The series Caripur H2O CHP204.8 remote app-controlled programmable device with multiple sensors. Ready to operate out-of-the-box, the Caripur H2O monitors up to 12 sensors which provide univariate data managed by machine learning code enabling it to identify anomalies, predict problems and notify the user of any upcoming maintenance. Additionally, it manages all sensors, valves, pumps and standard components.

Communication with a building/home is standard and available through our app. Rainwater is filtered in multiple stages down to 0.02um and includes external disc and a bacteriostatic carbon block filter that can remove taste, odor and flavor from up to 27,000 gallons of water, it also doubles as a backup bacteria screen. The system is factory assembled and housed within a 304 stainless steel case and includes an internal membrane disinfection system which uses a 100% organic membrane cleaning solution.

Caripur H2O comes with an internal solar rechargeable battery backup and booster pumps capable of delivering hundreds of gallons of water in the event of power failure. The unit can detect power interruption and immediately switch to internal backup pumps allowing it to provide a continuous, uninterrupted flow of water during such an event.

Features

- Rated for up to 10 GPM @ 55 PSI*
- Internal minicomputer controlled by mobile app
- Compact footprint easily serviceable
- Single Point Power Connection which include solar
- 10 Micron replaceable external bag filter for input water
- 0.02 Micron UF membranes internally
- External long-life bacteriostatic carbon bloc filter on output
- Wireless and Bluetooth communication
- 304 Stainless Steel Case
- Cistern level and temperature monitoring
- Internal water flow, in/out pressure, water quality, turbidity, pH, barometric, air temp. air quality tracking

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

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

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.

before beginning the installation of this product.



Configurable Options

- 2" PVC, Copper, or Stainless-Steel piping
- Input Voltage (US & Canada)
- Automatic Flushing
- 100% organic Disinfection
- Magnetic Flow Meters
- Customized programming, monitoring, and maintenance of external filters.



ATTENTION

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

Inquire with governing authorities for local installation requirements

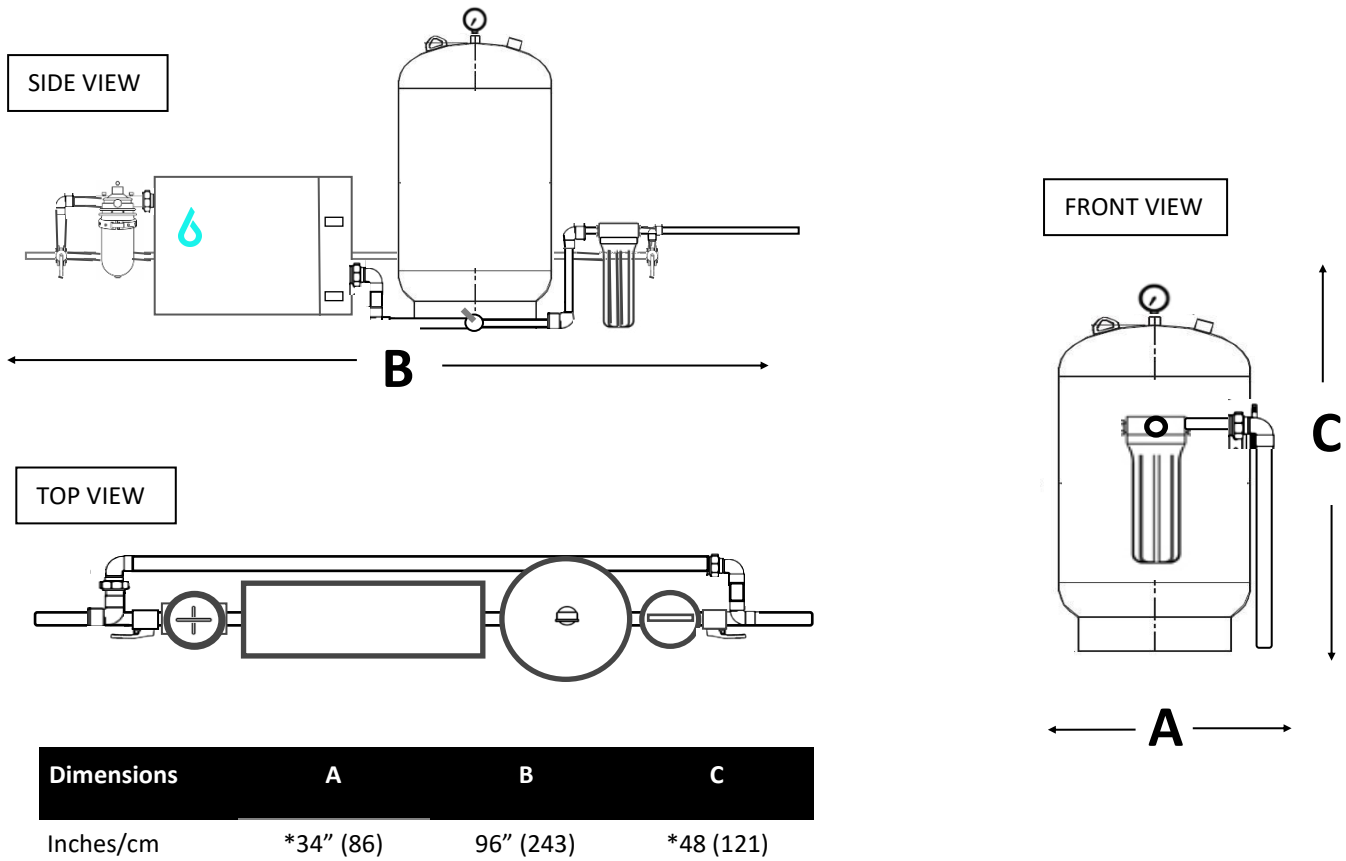


Principles of Operation

Rainwater is filtered using multiple 0.02 Ultrafiltration membranes, (1) 10-micron high capacity bag filter, (1-2) Carbon Bloc cartridge filter(s). Water is then discharged to the end use. Isolation valves, pressure relief valve, and sampling port are included. The internal minicomputer operates the rainwater purification unit using a 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 is 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



*Dependent upon pressure tank installed

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 with-out prior notice and without incurring any obligation to make such changes and modifications on Bondurant products previously or subsequently sold.

