

Caripur H2O Series

Caripur H2O™ is a Point of Entry, fully self-contained, pressure driven, all membrane water purification unit, capable of removing organic and inorganic micro-pollutants in water. This includes high-molecular-weight substances, colloidal materials, bacteria, cryptosporidium, cysts, viruses, fungi, heavy metals, and pesticides without requiring frequent filter replacement. In addition, the Caripur H2O provides built-in spectral analysis of outgoing water providing UV, visual, near-infrared, and infrared range analysis of water quality with the ability to upload and share the spectral data.

System Includes:

- input, output, purge in, purge out connection points
- Battery Backup supplying up to 3 hrs. of use
- multiple power sources - A/C, DC, solar
- Weatherproof encasement with bolt down points
- External filters

Operational Concepts:

- Point of entry water purification - residential/business
- Automated operation
- Self-cleaning capabilities
- Can be used as emergency water purifier or permanent water purifier

Options:

- External bladder tank

Certifications:

- UF membranes are NSF 16 certified or the equivalent international standard
- When used nanofiltration membranes are NSF16 certified

SONDE analytic Technique (measurements)

- Total Organic Carbon (TOC)
- Chemical Oxygen Demand (COD)
- Chroma
- Turbidity



Microbial removal capabilities:

Exceeds 2-log removal of Cryptosporidium oocysts

Exceeds 3-log removal or inactivation of Giardia cysts

Exceeds 4-log removal or inactivation of viruses (Membrane Dependent)

WATER SECURITY

The Caripur H2O as water treatment system is a point of entry and emergency water purification device designed to turn fresh water sources into safe potable water. The Caripur H2O can be has a built in multispectral analysis unit will provide real-time reporting on micropollutants present in the water, the data of which can be uploaded to a computer or app.

Designed to be locally managed, Caripur H2O can purify approx. 216 gallons of potable water per hour at a cost of \$0.057 per cubic meter, running off AC, DC, or solar energy. In addition, it has a built in battery backup that can provide up to 3 hrs of use.

The Caripur H2O relies on membrane technology as is core purification components. However traditional methods of cleaning membranes are to use chemicals and/or Alkaline. Bondurant Technologies instead utilizes a 100% organic solution to clean the membranes, which is not harmful to plants or animals.

The system is complete with feed and purge pumps, automatic back flushing filtration, and multispectral water analysis unit with USB computer connection point. The Caripur H2O n is designed to operate for 3 to 5 years without the need to replace components. The Caripur H2O is ideal for residential, commercial, disaster relief, military camps and hospitals, animal hydration, or any other mobile application. The system is very compact, easy to install and to maintain.

Warranty:

Notice: The use of this product in and of itself does not necessarily guarantee the removal of cysts and pathogens from water. Effective cyst and pathogen reduction is dependent on proper operation and maintenance of the system.

Although the Caripur H2O™ water purification system does remove bacteria and viruses, it is not certified to remove >99.9999% of bacteria and >99.99% of viruses required by the US EPA water purifier standard without the other agents. Bondurant Technologies has no control over the end use of our water filtration systems; therefore, our warranty is limited to the replacement of any component we deem defective, and any such replacement is at our sole discretion. All component manufacturers' warranties apply.

Bondurant Technologies International water purification systems will remove 99.999+% of suspended solids and bacteria from most water sources, but no water filtration system can remove 100% of bacteria and viruses, and no claim of reaching 100% effectiveness is made or implied.

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Form No. 001-100CT

Operational and Specifications

Model	CHP003/004/005/010/020
Dimensions	010 and below Series -29" x 42" x 8" (73.66 x 106.6 x 15 cm). 020—series 29" ´ 42" ´ 12" (73.66 ´ 106.6 ´ 30.3 cm)
Weight	220lbs (99kg) -005 350lbs (158kg) - 010
Contamination removal	Organic and inorganic contamination
Water source	Cistern, well, river, lake, borehole, district water
Port Sizes	3\4" NPT
capacity	Between 3gpm and 20gpm
Power Connection	12-24vdc, 115-230vac, and 24vdc solar
Operational Lifespan	7—10 years until refresh
Min. to Maximum Water Temp.	32°F to 104°F (0°C to 40°C)
Feed Pressure Maximum	93.75 psi (646.3 kPa)
Typical operating pressure	43.5 psi (3 bar)
Maximum pressure drop	13 psig (0.9 bar)
Chlorine tolerance	250,000 @ppm hrs
Water recovery rate	95%
Battery Backup	2.765 hours