

# CABIN 'Clean Water Filter' Manual and Automatic

[www.cabincleanwaterfilter.com](http://www.cabincleanwaterfilter.com)

The CABIN Clean Water Filter treats water so that it is safe for human consumption and is aesthetically pleasing. It is designed for use in isolated homes or cabins, homes in communities without access to safe drinking water, camps, emergency supplies, boats, barges and recreational vehicles. Electrical power is not required for the manual operation. Automatically operated filters may use any available power supplies as required to provide raw water, operate valves, distribute treated water and power UV disinfection.

The CABIN Clean Water Filter is effective, compact, lightweight and portable. It is used to remove particulate matter (including iron) and disease-causing organisms from surface water (rivers, ponds and lakes), groundwater (wells and springs), captured rainwater and unsafe municipal supplies (piped or delivered). The CABIN Clean Water Filter can produce up to 12 litres of filtered water in one hour. The basic filter is manually operated and simple to clean. It is used as required. The automatic version may be used as part of a completely automated system including management of raw water supply, filter production, disinfection and treated water distribution as required by user.

Water produced by the CABIN Clean Water Filter is free of all types of water borne parasites such as Giardia and Cryptosporidium, and larger organisms such as Bilharzia and Guinea Worm and spores of infectious fungi. Most bacteria and viruses are also removed. Cholera is completely removed because it only survives in the gut of larger organisms that are easily removed. It is strongly recommended that filtered water be disinfected using chlorine tablets or household bleach or UV disinfection if available. The treated water should be safely stored and dispensed to provide treated water that is free of disease-causing organisms. The ability of the CABIN Clean Water Filter to remove disease causing organisms has been verified by independent laboratory testing.

The CABIN Clean Water Filter will not remove most dissolved substances but does provide excellent pre-treatment for filters that do remove dissolved substances such as micro filters and reverse osmosis. The filter will remove oxidized iron (typical form) and dissolved arsenic with the iron (co-precipitation). The biosand filtration process has been proven to reduce concentration of organic pesticides.

The manual version of the Cabin Clean Water Filter is intended to be placed on a counter-top safe from unwanted disturbance. Manual operation consists of removing the lid and pouring water to be treated directly into the top of the filter. Filtered water is immediately produced from the filter outlet. Automatic versions may be placed and used where convenient including under counters, in cabinets or other locations where it is not conspicuous or uses counter space. Commissioning may be manual using the kit provided with the filter or using a small pump selected specifically for the commissioning purpose.



The CABIN Clean Water Filter is constructed using food grade plastic and media that are all NSF 61 certified. The filter is 50 cm tall and 30 cm wide at the lid. When filled with media the filter and accompanying commissioning kit weigh approximately 15 kg.

The filter construction is very durable and should provide satisfactory service for many years. With normal use the media will never require replacement.

The treatment and cleaning processes used by the CABIN Clean Water Filter are similar to those used by the millions of BioSand Water Filters in use around the world for more than twenty-five years. For more technical information and for information regarding price, availability, shipping costs and conditions of sale contact [manzcabin@shaw.ca](mailto:manzcabin@shaw.ca).

