



Davnor Water Filters Ltd.

2703 Cannon Rd NW

Calgary, Alberta

Canada, T2L 1C5

davidmanz@shaw.ca

403 889-4562

Davnor Plastic Filters.

Available capacities when operating as a biological filter are: 12 LPH and 60 LPH. Capacity of the 12 LPH filter is fixed but the capacity of the 60 LPH filter may be increased to 180 LPH when operating as a polishing filter.



Davnor Water Filters Ltd.: Cabin Clean Water Filter and Manz BSF60 filter.

The Clean Water Filter is able to filter 12 litres per hour. The filter is approximately 50 cm tall and 30 cm wide at the lid and weighs approximately 15 kg. The design may be configured to be manually or automatically operated. Water is filtered on an 'as required' basis though daily use is recommended. The manually operated versions were specifically designed for developing country environments (urban and rural) and remote applications typical of Canada (cottages, camps, remote communities, temporary habitation and recreational vehicle). See web site, www.cabincleanwaterfilter.com. The automated version of the Clean Water Filter was designed for use where electricity in some form is normally available and convenience of use is a priority; and, it is significantly more expensive than the manually operated versions.

The filtering media should never need replacement if the filters are used for production of drinking water using sources of water that would normally be considered for potable water use. Operation consists of pouring untreated water into the top of the filter. It passes through several layers of media and leaves through the standpipe outlet. Filtered water is captured in a container suitable for storing and dispensing potable water. Rate of flow of filtered water is controlled internally and cannot be adjusted. Typically, the volume of untreated water added to the filter would not exceed the capacity of the treated water storage vessel. It is

recommended that the filtered water be disinfected using chlorine (liquid or tablet form) which ensures that all pathogens have been removed or killed. The manually operated Clean Water Filter may be cleaned using harrowing or by simply repeating the commissioning process. No electrical power is required.



The automatically operated Clean Water Filter employs a float-controlled inlet system that allows filtration as required to fill the treated water storage reservoir. Untreated water may be supplied by a pump or from overhead tanks (gravity). UV disinfection may be used before the treated water storage. Chlorine in liquid or tablet form could be used to disinfect the water in the treated water storage reservoir. Water from the treated water storage could be manually dispensed or distributed to suitably located faucets using an electric demand pump. The automated Clean Water Filter may be cleaned using harrowing and by repeating the commissioning process. A household reverse osmosis system may be added if desired.

The BSF60 would provide up to 60 litres per hour of filtered water when operating as a biological filter and 180 litres per hour when operating as a polishing sand filter. It is intended to be used in automated systems that include an appropriately sized storage reservoir to contain filtered and disinfected water and distribution of treated water directly from treated water storage tanks by gravity or using electric pumps. Detailed technical specifications are available on request. Technical support available to assist in applications.

The BSF60 is 85 cm tall and 55 cm wide at the lid. Installed and operating weight is approximately 250 kg.

Typically, larger treatment systems would employ two or more filters operating in parallel.

All materials used in the construction of the filters meet NFS 61 standards.

Filters operating as slow sand filters meet AWWA Guidelines, EU Standards and can be configured to meet the United States Ten States Standards.

Performance claims related to removal of water borne pathogens have been independently confirmed.

