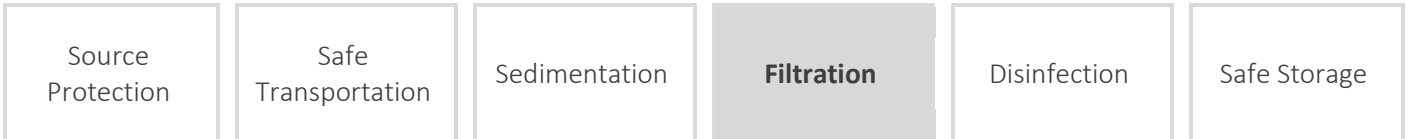


Grifaid Family Filter



What is it?

The Grifaid Family Filter is a membrane ultrafiltration system manufactured by the UK-based organization Grifaid. This system has a 0.01 micron filter membrane contained within a pump unit. The unit can be attached to a bucket using a built-in clamp.

Performance

Microbiological Effectiveness:

Parameter	Effectiveness
Bacteria	Very Effective (>99%)
Viruses	Very Effective (>99%)
Protozoa	Very Effective*
Helminths	Very Effective*

*Assumption based on pathogen size

Other Parameters

Very effective for removing turbidity.

Source Water Requirements

Low turbidity preferred. This filter can be used with turbid water, but it may clog more often and more frequent backwashing will be required.

Capacity

Can filter one bucket of water at a time. Flow rate is 1.5 L/minute. Requires constant pumping.

Lifespan

Manufacturer-stated lifespan is 5 years or longer. Actual lifespan varies, depending on source water, frequency of use, and maintenance.

Ease of Use & Acceptability

Operation & Maintenance

Users fill a container with untreated water and put the Grifaid Family Filter into the water. They attach the filter to the container with the built-in clamp. They use the pump to draw water into the filter, through the filter cartridge, and out the blue filtered water tap. Daily backwashing is recommended: users must follow the manufacturer's instructions to pump backwashed water out of the red tap. Maintenance procedures are also required, less frequently, for the piston and prefilter. A bubble test can be used to check for air leaks (see user manual).



Repair & Replacement

Does not require spare parts. The entire filter should be replaced at the end of its expected lifespan, or if it breaks, if flow rate suddenly increases, or if backwashing doesn't return flow rate to normal.

User Considerations & Preferences

Requires regular cleaning of prefilter and regular backwashing of filter cartridge. Safe storage container is required (not included).

Feasibility

Availability

Can be ordered (in bulk) from Grifaid.

Cost

Costs around US\$50 (not including water containers), depending on the quantity ordered.

Size & Weight

48 x 10 x 14 cm when packaged for shipping. Weighs 1.2 kg.

More Information

Details and references: www.hwts.info/products-technologies/c2a268e8/grifaidr-family-filter

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