

# Rainfresh MP4U Gravity Filter

Source Protection	Safe Transportation	Sedimentation	<b>Filtration</b>	Disinfection	<b>Safe Storage</b>
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## What is it?

The Rainfresh MP4U Gravity Filter is a tabletop filter produced by Envirogard Products Ltd. The filter setup consists of four silver-impregnated ceramic cartridges, two buckets, a tap for dispensing water, a filter gauge to measure when the filters need to be replaced, cleaning mesh, and the necessary hardware for installation.



## Performance

### Microbiological Effectiveness:

Parameter	Effectiveness
Bacteria	Very Effective (>99%)
Viruses	No independent tests
Cryptosporidium (Protozoa)	Very Effective (>99%)
Giardia (Protozoa)	Very Effective (>99%)
Helminths	Very Effective (>99%)

### Other Parameters

Effective for removing turbidity.

### Source Water Requirements

Manufacturer states that this filter can be used for water with turbidity up to 50 NTU. Very turbid water may cause the filter to clog and require more frequent cleaning.

### Capacity

Maximum flow rate of 2.9 L/hour under ideal conditions. Can filter 25 L per batch (top and bottom buckets both hold 25 L).

### Lifespan

Each ceramic cartridge will last 6–12 months. Plastic components are more durable.

## Ease of Use & Acceptability

### Operation & Maintenance

User pours water into the top of the upper container and waits for water to flow through the filter into the lower safe storage container. Treated water can be accessed through the tap. When flow rate reduces after some time, the cleaning mesh provided with the filter can be used to rub away a very small layer of the ceramic material.

### Repair & Replacement

The ceramic cartridges are fragile and must be replaced if there are cracks or leaks, or when repeated cleaning makes them thinner than the measuring gauge provided (likely every 6–12 months). Plastic parts are more durable but may need replacement.

### User Considerations & Preferences

Safe storage is included with the filter (lower container). The filter should be kept out of sunlight to avoid degradation of plastic parts.

## Feasibility

### Availability

Produced and sold by Envirogard Products Ltd. The cartridges cannot be produced locally but can be shipped internationally.

### Cost

Not available.

### Size & Weight

Filter is 79 cm tall by 30.5 cm wide and weighs 3.5 kg.

## More Information

Details and references: [www.hwts.info/products-technologies/29261770/rainfreshr-mp4u-gravity-filter](http://www.hwts.info/products-technologies/29261770/rainfreshr-mp4u-gravity-filter)

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