



# Filter Pack

A water-filtering backpack providing safe and cheap drinking water for rural settings and emergencies

## Affordable



**\$25 for a family for 1 year**  
of drinking water (up to 7,300 L)

## Easy to carry and use



**Holds 20 L of water**  
for 1 day of a household's drinking water

## Safe for everyone



**Prevents recontamination**  
by cleaning water just in time

## Independent purification system

No waiting period, batteries, measurements, or chemicals

**Removes turbidity & microorganisms**  
with trade secret nanotechnology

**Meets WHO & EPA standards**  
for biological purification

**Kills viruses, bacteria, and protozoa**  
unlike LifeStraw Personal, ceramics, and sand filters

## Naturally prevents overuse

Automatically stops when filter is exhausted

## Visual instructions

for use across language barriers

## Lightweight and collapsible

for easy delivery to rural settings

# Comparison of other household options vs. the Filter Pack:

	Strengths	Limitations
<b>LifeStraw Family &amp; Sawyer Point ZeroTWO</b>	<ul style="list-style-type: none"> <li>• Comparable flow (10 L/hour)</li> </ul>	<ul style="list-style-type: none"> <li>• 40% more expensive per family (\$35)</li> <li>• Require daily backwashing</li> </ul>
<b>DayOne Response Waterbags</b>	<ul style="list-style-type: none"> <li>• Faster treatment (20 L/hour)</li> </ul>	<ul style="list-style-type: none"> <li>• 60% more expensive per family (\$40)</li> <li>• Require education on treatment steps</li> </ul>
<b>PUR Packets &amp; Aquatabs (Chlorine)</b>	<ul style="list-style-type: none"> <li>• Faster treatment (20 L/hour)</li> <li>• Less expensive</li> </ul>	<ul style="list-style-type: none"> <li>• UN field study shows 50% failure and recontamination rates</li> <li>• Require education on treatment steps</li> </ul>
<b>Solar Disinfection &amp; Boiling</b>	<ul style="list-style-type: none"> <li>• Less expensive</li> </ul>	<ul style="list-style-type: none"> <li>• Dependent on appropriate weather and fuel</li> </ul>

## The filters below do not meet WHO standards:

<b>Ceramic Filters</b>	<ul style="list-style-type: none"> <li>• Less expensive</li> <li>• Available in developing countries</li> </ul>	<ul style="list-style-type: none"> <li>• No purification of viruses</li> <li>• Slow flow rates (0.1-1 L/hour)</li> </ul>
<b>LifeStraw Personal &amp; Sawyer MINI</b>	<ul style="list-style-type: none"> <li>• Simplest filter to use</li> </ul>	<ul style="list-style-type: none"> <li>• No purification of viruses</li> <li>• 140% more expensive per family (\$60)</li> </ul>
<b>Slow Sand Filters</b>	<ul style="list-style-type: none"> <li>• Last 10 years if maintained properly</li> <li>• Can use local materials</li> </ul>	<ul style="list-style-type: none"> <li>• Only 1-2 log kill for viruses and bacteria</li> <li>• Cannot be moved after installation</li> </ul>

## Frequently Asked Questions

How does the Filter Pack work?	The Filter Pack has a cartridge filter inside using Rorus' trade secret purification technology. Our filter does not rely on size exclusion like ceramic filters, LifeStraw, Sawyer, or membrane filters.
What does the Filter Pack purify?	<p>The Filter Pack removes the 3 major types of waterborne pathogens (bacteria, viruses, and protozoa) to EPA and WHO standards. This protects against diseases such as cholera, norovirus, polio, salmonella, giardia, cryptosporidium, and E. coli. These claims are awaiting independent verification.</p> <p>The Filter Pack also reduces taste, odor, turbidity (cloudiness), and levels of some chemicals such as arsenic. It does not remove salts.</p>
How does the Filter Pack prevent overuse?	The filter clogs with turbidity at the end of its safe lifespan, preventing overuse or provision of unsafe water. This is expected after 1 year of use.
How long does the Filter Pack take to treat water?	Under typical conditions, the Filter Pack produces approximately 1 L every 2-5 minutes. Cloudy water (high turbidity) will slow down the filter over time.
How does the Filter Pack prevent recontamination?	In accordance with the <a href="#">UN's policies</a> , the Filter Pack's unique design stores and dispenses water in a way that minimizes contact with human hands or open air.
What sources of water can the Filter Pack be used on?	The Filter Pack will purify any fresh (non-salt) water such as wells, streams, rivers, rainwater, and most floods. Like most filters, it will work faster and last longer when used on clear water.
What is the Filter Pack's shelf-life?	The Filter Pack can be stored for 5 years out of direct sunlight at room temperature.
How does my organization try the Filter Pack?	Call or email to learn about our Sample Package of 10 filters. We're looking for partners to help us innovate for safe water.