ROAMfilter™ Plus
A water filtration system designed specifically for rural and disaster-hit communities

AN AWARD-WINNING INNOVATION

Best Innovation Award
ASEAN Impact Challenge 2016

UN Young Leader Representative
Sustainable Development Goals for Clean Water and Sanitation 2017
DESIGN PRINCIPLES

ROAMfilter™ Plus
Designed specifically for the needs of rural and disaster-hit communities

PORTABLE
Lightweight (3kg)
Fits in your backpack

SIMPLE
1-minute set-up
No electricity needed

SAFE
NSF-certified filter
Removes up to 99.9999% of bacteria in water - at a rate of 200L / hour

DURABLE
Replaceable filter cartridge extends product lifespan
Filter lasts 2 years
APPLICATIONS AND USES

ROAMfilter™ Plus

Designed specifically for the needs of rural and disaster-hit communities

The system is suitable for various conditions.

**Disaster or Crisis-Relief**
In natural disasters (e.g. flooding), water sources (e.g. rivers) can get muddy or contaminated, making them unfit for drinking.

**Rural Areas / Villages**
For areas with no clean water. A communal system provides clean water for drinking, cooking, washing and bathing.

**Schools**
Students have access to clean water when they go to school.

**Hospitals**
Health complications during treatments are minimised.
## OPERATIONAL METHODS

**ROAMfilter™ Plus**  
*Designed specifically for the needs of rural and disaster-hit communities*

The system can be operated using all 5 methods below.

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hand Pump</strong></td>
<td>The system mimics the mechanism of a bicycle pump. User simply needs to pump the system in a consistent up-down motion.</td>
</tr>
<tr>
<td><strong>Gravity-Fed</strong></td>
<td>Attach the system to an elevated tank (optimally 3 to 5 metres). Allow water to flow through system for purification.</td>
</tr>
<tr>
<td><strong>Tap Pressure</strong></td>
<td>Attach system to a tap. The water pressure from the tap will allow water to be filtered as it flows through system.</td>
</tr>
<tr>
<td><strong>Solar Pump</strong></td>
<td>An alternative to hand pump, attach system to a solar pump and allow water to be filtered as it flows through system.</td>
</tr>
<tr>
<td><strong>Pedal Pump</strong></td>
<td>An alternative to hand pump, attach system to a pedal pump. Pedal the system and allow water to be filtered as it flows through system.</td>
</tr>
</tbody>
</table>
USER GUIDE

ROAMfilter™ Plus
Designed specifically for the needs of rural and disaster-hit communities

1 Setup in 1 minute
2 Stand upright
3 Pump to get clean water
Testimonials from users whose communities they serve in have benefitted from the system.

“Children used to fall sick because of fever and diarrhea from drinking dirty water, and not anymore now. WateROAM provides a great drinking water quality. Students are learning about the importance of clean water. I am so happy that they have stopped spending money to buy water!”

Volak Veasna
Cambodia
(Kampong Chhnang)
Chhnok Tru Primary School
USER TESTIMONIALS

ROAMfilter™ Plus
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Testimonials from users whose communities they serve in have benefitted from the system.

“Children at the center can have access to clean water any time (I used to limit it). There is significant cost saving. No more weekly scrubbing and cleaning of old ceramic filter. No more daily heavy lifting. We used to carry at least 3 buckets of water daily for filtering! We can totally relax now.”

Yue Shan
Cambodia (Kompot)
Kokkos Resource
OUR IMPACT

ROAMfilter™ Plus
Designed specifically for the needs of rural and disaster-hit communities

Since 2014, WaterROAM has impacted...

34,758 PEOPLE

14 COUNTRIES

Bangladesh
Cambodia
China
Indonesia
Laos
Malaysia
Myanmar
Nepal
Pakistan
Papua New Guinea
Philippines
Syria
Thailand
Vanuatu
# PRODUCT SPECIFICATIONS

**ROAMfilter™ Plus**

*Designed specifically for the needs of rural and disaster-hit communities*

<table>
<thead>
<tr>
<th>Type</th>
<th>Water Filter Pump</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Filter</strong></td>
<td>Ultrafiltration (0.02µm)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>2.5kg (System, dry weight)</td>
</tr>
<tr>
<td></td>
<td>4.2kg (With packaging)</td>
</tr>
<tr>
<td><strong>Dimension</strong></td>
<td>12.5 x 17 x 73cm (System)</td>
</tr>
<tr>
<td></td>
<td>20 x 20 x 75cm (With packaging)</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>Hollow-fibre (Filter media)</td>
</tr>
<tr>
<td></td>
<td>PVC-U (Module)</td>
</tr>
<tr>
<td><strong>Removal Capability</strong></td>
<td>99.9999% (Bacteria)</td>
</tr>
<tr>
<td></td>
<td>99.99% (Virus)</td>
</tr>
<tr>
<td><strong>Flow Rate</strong></td>
<td>200L / hour (hand pump)</td>
</tr>
<tr>
<td><strong>Pressure</strong></td>
<td>1.5 Bar (max)</td>
</tr>
<tr>
<td><strong>Operational Method</strong></td>
<td>Gravity; Hand pump; Electric pump; Solar Pump; Pedal Pump</td>
</tr>
<tr>
<td><strong>Operational pH</strong></td>
<td>3-10</td>
</tr>
<tr>
<td><strong>Electricity</strong></td>
<td>Not required</td>
</tr>
<tr>
<td><strong>Filter Duration</strong></td>
<td>2 years (Replaceable filter cartridge)</td>
</tr>
</tbody>
</table>
PRESS

FEATURES

On The Red Dot Ep 163
March 2016

World Vision-WateROAM
Collaboration 2015
OUR PARTNERS
Feel free to reach out if you would like to purchase, get more information, or donate to our cause.

<table>
<thead>
<tr>
<th>Email</th>
<th><a href="mailto:support@wateroam.com">support@wateroam.com</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Landline</td>
<td>(+65) 6303 0603</td>
</tr>
<tr>
<td>Operating Hours</td>
<td>Mon-Fri 9.30am - 5.30pm (SGT)</td>
</tr>
<tr>
<td>Office Address</td>
<td>21 Heng Mui Keng Terrace #01-01/02, The Hangar I-Cube Building, OFC-104 Singapore 119613</td>
</tr>
</tbody>
</table>