

# Rorus Spring

simple clean water



Every  
Year...

1.8

**BILLION**

people are forced to drink from a source contaminated with faeces.<sup>1</sup>

1.26

**MILLION**

people die from diarrhoeal disease.<sup>2</sup>

760

**THOUSAND**

children under 5 years old die from diarrhoeal disease.<sup>3</sup>

## About Us

Rorus makes water filters that are simple enough for anyone to use every day. We are creating the world's most user-friendly water purifiers, because safety needs to be simple.

We specialize in using our new nanotechnology to innovate faster, simpler, and safer water filters. Rorus has offices in Pittsburgh, PA, USA and New Delhi, India.

Among all point-of-use water treatment methods, water filters have been shown to be the most effective for reducing diarrhoeal disease.<sup>4</sup>

# Introducing The Rorus Spring

## Step 1

Fill the top container

## Step 2

Flow by gravity through the Rorus Core

## Step 3

Drink safe water from the spout



*\*The Rorus Spring enclosure may vary.*

*We source containers locally to keep costs low, support local economies, and adapt our filter for different populations.*

# Why Rorus?

## Simple

High flow rate

Easy to ship

Instant purification

No added taste

## Safe

Automatic shut off when Rorus Core needs to be changed

Safe storage container prevents recontamination

No added chemicals

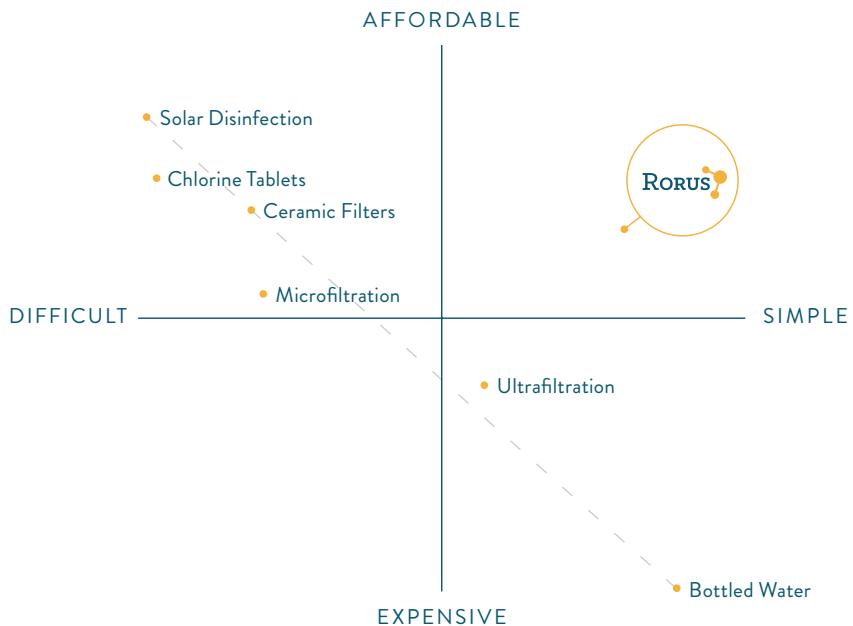
## Reliable

No backwashing, IEC (education), or maintenance

No electricity or batteries

Eliminates bad tastes/foul odor

Reduces turbidity (cloudiness)



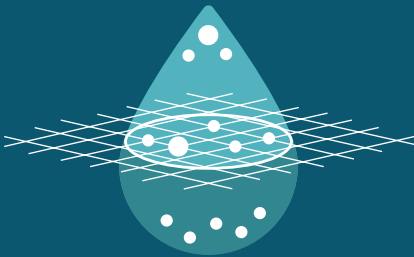


# How It Works

Our technology allows us to remove even the smallest viruses while having holes that are 100x the size of our competitor's and an unprecedented flow rate.

## Other filters

Most filters work by trying to force contaminated water through tiny holes that block polluting matter from getting through.



## Our filter

Instead, our Rorus Core works like a magnet. As water flows through, the pathogens are attracted and attached to our filter material, removing them from the water.



	Rorus Spring	Ceramic Filters	Microfiltration	Ultrafiltration	Chlorine Tablets
Removes bacteria	🔥 YES	💧 YES	💧 YES	💧 YES	💧 YES
Removes viruses	🔥 YES	💧 NO	💧 NO	💧 YES	💧 YES
Removes protozoa	🔥 YES	💧 YES	💧 YES	💧 YES	💧 YES*
Removes bad tastes	🔥 YES	💧 NO	💧 NO	💧 NO	💧 NO
High flow rate (15L per hour)	🔥 YES	💧 NO	💧 NO	💧 NO	💧 N/A

\*except *Cryptosporidium*

## The Rorus Core



Polypropylene Core

Pleat Pack

Contains a biological magnetic layer that attracts and removes dangerous pathogens. Incorporates Powdered Activated Carbon that combats toxic organic compounds, odors, and colours.

Rinsable Pre-Filter

Removes large physical impurities in the water.

Rigid Plastic Caging

Protects the vital filter components.

End Cap

# By the Numbers

*\*Depends on quality of input water.*

Average Flow Rate

**15** LITERS  
PER  
HOUR\*

Duration

**3,000** LITERS\*  
6 months for  
a family of 6

Exceeds WHO Protective Standards

Bacteria

99.9999%  
Reduction

**6 log kill**

Virus

99.99%  
Reduction

**4 log kill**

Protozoa

99.9%  
Reduction

**3 log kill**

Package Weight

**2.3**  
KILOGRAMS

Package Size

**33x30x26**  
CENTIMETERS

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1. Drinking-water. (2015, June). Retrieved July 22, 2016, from <http://www.who.int/mediacentre/factsheets/fs391/en>

2. GBD 2013 Mortality and Causes of Death Collaborators. (2015, January 10). Global, regional, and national age-sex specific all-cause and cause-specific mortality for 240 causes of death, 1990-2013: A systematic analysis for the Global Burden of Disease Study 2013. Retrieved July 22, 2016, from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4340604>

3. Diarrhoeal disease. (2013, April). Retrieved July 22, 2016, from <http://www.who.int/mediacentre/factsheets/fs330/en>

4. Interventions to improve water quality and prevent diarrhoea. (2015, October 20). Retrieved July 22, 2016, from [http://www.cochrane.org/CD004794/INFECTN\\_interventions-improve-water-quality-and-prevent-diarrhoea](http://www.cochrane.org/CD004794/INFECTN_interventions-improve-water-quality-and-prevent-diarrhoea)