



MUV NOMAD WATER BOTTLE INSTRUCTIONS

The MUV Nomad Adaptable Water Filter is a revolutionary water filter that allows you to adapt the water filter to different water contaminations.

HOW TO USE MUV WITH THE INCLUDED WATER BOTTLE

Pieces required: included water bottle and straw, MUV 3 filter, OUT+28 housing and hose adapter (all pieces included).

Your MUV water bottle comes with a pre-cut and installed hose. Remove the top of the water bottle and remove the MUV 3 filter, OUT+28 housing, and hose adapter. Open the

MUV 3 package and the package containing the OUT+28 housing and the hose adapter. Connect the male end of the MUV 3 filter to the female end of the OUT+28 housing, turning it clockwise to lock it in place. Next, insert the threaded end of one of the hose adapter into the top of the OUT+28 housing. Twist the hose adapter clockwise until it is snug with hand tightening. Do not use tools to tighten the hose adapter. Insert the barbed end of the hose adapter into the bottom of the straw. Fill the water bottle with contaminated water and thread the top of the water bottle back in place. Open the drink port and draw water through the filter and mouthpiece. It will generally take 5-10 seconds to draw water through the filter for the first time as the water has to make its way through the filter membranes. This is normal and is critical to make sure that the membranes are filtering the water.

Nanalum - MUV 3 Module

The technology used in Nanalum was developed by NASA as a way to reuse waste water on the International Space Station. Nanalum works through electro-absorption and is manufactured with non-woven highly engineered water filter paper which is also impregnated with Granular Activated Carbon (GAC). The Nanalum module has a strong positive electrostatic charge when wet. Like a strong magnet, the positive electrostatic charge of the Nanalum attracts and traps organic contaminants.

Nanalum can remove:

- Viruses (Hepatitis A, Hepatitis E, Poliovirus, Meningitis, and more)
- Bacteria (E. Coli, Cholera, Typhoid, etc)
- Protozoa (Cryptosporidium)
- Parasites (Giardia)
- Heavy Metals and Chemicals
- Negative taste
- Filters up to 90 gallons

CLEANING AND MAINTENANCE

The MUV Water Bottle should be rinsed and allowed to dry between uses. For storage or for long breaks between uses, the MUV 3 Nanalum filter should be allowed to completely dry before storing. The MUV Water Bottle (without the MUV 3 filter connected) is dishwasher safe.

UNDERSTANDING FILTER TECHNOLOGY

Activated Carbon Fiber - MUV 1 Module

Unlike traditional activated carbon in powder or granular form, Activated Carbon Fiber is a fibrous adsorbent that has 10x higher adsorption than traditional activated carbon and gives you faster flow rates.

Activated Carbon Fiber can remove:

- Chemicals
- Heavy metals

- Discoloration of water
- Negative taste
- Filters up to 150 gallons

Hollow Fiber - MUV 2 Module

Hollow Fiber membrane are tiny hollow tubes that look like straws. These fibers have a porous membrane wall that allows clean water into the fiber and prohibits contaminants from passing through the membrane. Hollow Fiber membranes filter water by size exclusion. Size exclusion works by having a pore size smaller than the size of the contaminants. Clean water is allowed to go through the membrane while large contaminants cannot fit through the pores.

Hollow Fiber can remove:

- Bacteria (E. Coli, Cholera, Typhoid, etc)
- Protozoa (Cryptosporidium)
- Parasites (Giardia)
- Filters up to 100,000 gallons
- 0.1 Microns

	MUV 1 Activated Carbon Fiber	MUV 2 Hollow Fiber	MUV 3 Nanalum
CONTAMINANTS	Yes	No	Yes
HEAVY METALS	Yes	No	Yes
CHEMICALS	No	Yes	Yes
MICROBIOLOGY / BACTERIA	No	No	Yes
VIRUSES	Yes	Yes	Yes
SEDIMENT AND WATER CLARITY	No	Yes	No
ABILITY TO BACKFLUSH/CLEAN	No	Yes	No

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