



DWETS™

Water Filter Bottle

USER GUIDE



Water Filtration developed
for NASA



Filters up to 99.9% of
bacteria, viruses and more



Made in Germany



BPA free

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WATER BOTTLE SPECIFICATIONS

SIZE: 750 ml

FILTER CAPACITY: Depends on water quality

WEIGHT: 59 g

DIMENSIONS: 8.0 x 6.5 x 26.5 cm

INTENDED USE OF THE DWETS WATER FILTER BOTTLE

Congratulations on your purchase of the DWETS Water Filter Bottle!

When used properly in accordance with the instructions provided in this manual, this product is designed to reduce the levels of bacteria and protozoan cysts commonly found in fresh water sources to make it safer for drinking. It meets the microbiological water purifier standards for reduction of bacteria (99.9999% *Klebsiella terrigena*) and protozoan cysts (99.9% *Giardia* and *Cryptosporidium*).

Improve the odor and taste of water

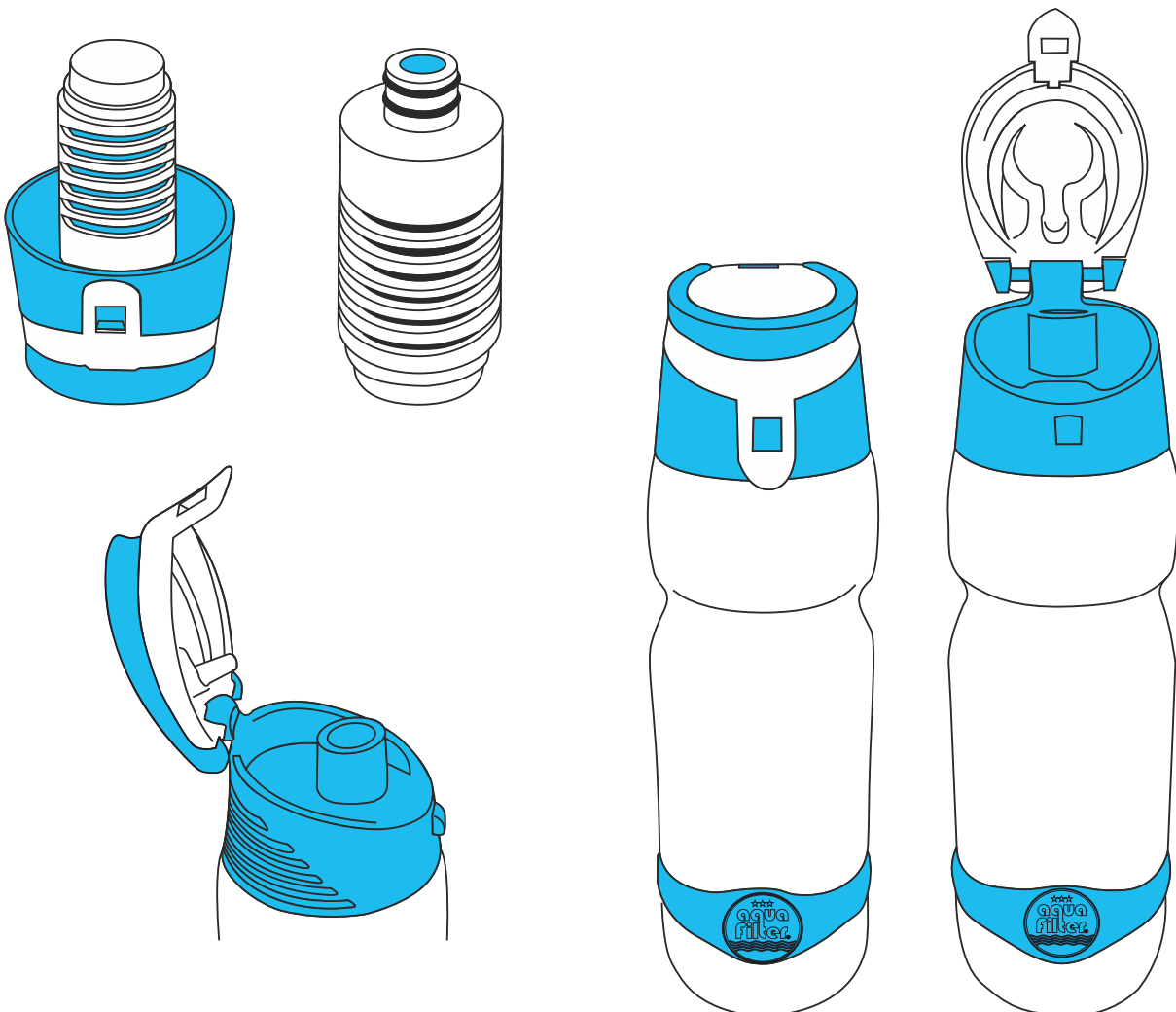
It is ideal for hiking, camping in the wilderness or traveling in areas where treated water is unavailable.

Water definitions as used in this manual

Fresh water >> Untreated water from lakes, rivers, streams, etc.

Filtered fresh water >> Potable drinking water

Treated water >> Treated tap water or chemically disinfected water.



WARNINGS

Using the DWETS improperly or drinking untreated water can result in exposure to harmful microorganisms and an increased risk of diseases. Reduce your risk of becoming sick by following the warnings and instructions in this manual and by educating yourself on backcountry/travel illness prevention.

YOU ARE RESPONSIBLE FOR YOUR OWN SAFETY, PLEASE USE GOOD JUDGEMENT.

Improper use of the DWETS or use of a damaged or contaminated Ultrafiltration membrane expose you to harmful microorganisms and increase your risk of contracting a gastrointestinal illness.

Read this entire manual before assembling or using the DWETS and follow all instructions carefully.

>> Never use the DWETS to filter seawater or brackish water or chemically contaminated water.

>> The DWETS does not make drinkable water from these sources and does not remove chemicals and radioactive materials or particles smaller than 0.1 microns.

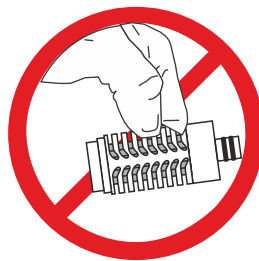
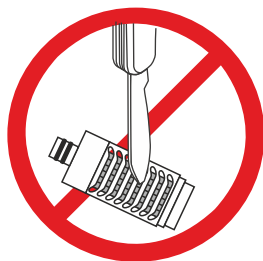
>> Do not use in freezing conditions a frozen filtration membrane could lead to microorganism bypass, resulting in illness.

>> Improper threading of cap could cause fluid leakage and result in illness.

>> Do not hold or squeeze the filtration membrane with your hand while opening or closing the DWETS (as showing in the diagram on the next page). Carefully hold the top part of the flask when opening or closing the DWETS, allowing the filtration membrane cartridge to rotate freely inside the flask.

>> Holding or squeezing the filtration membrane while opening or closing the DWETS could result in damage or breakage to the filter membrane, thus compromising/damaging the filter (which could allow harmful microorganisms to bypass the filter).

WARNINGS



Do not touch the membrane cartridge fibers with a tool or your fingers.

- >> If the bottle has been dropped into a fresh water source, follow instructions for long term storage to completely disinfect filter before use. If the bottle is damaged or contaminated, do not use.
- >> Do not allow fresh water to contaminate the output parts such drink nozzle or filter output.
- >> To minimize risk, when filtering water, do not splash dirty or fresh water on the drink nozzle and do not share the drink nozzle with others, illness can be spread by sharing drink with other people.
- >> Do not filter any substance or liquid other than fresh water through your bottle. The membrane cartridge may become damaged or contaminated.
- >> Before long term storage, disinfect the membrane cartridge thoroughly to prevent growth of mold, mildew and bacteria.
- >> Always seek the best fresh water source available.
- >> Handle the DWETS carefully. Always use common sense, responsibility for your safety and the safety of your family lies with you, be careful and drink safe!
- >> Extend your filter's cartridge lifespan by using one of the following options: shake or swish the bottle every 5 liters.
- >> On extended trips, bring along a DWETS additional replacement cartridge.

Read, understand and follow all instructions and warnings in this manual before using the DWETS. Failure to follow all instructions may result in exposure to harmful microorganisms and illness.

IMPORTANT SAFETY MESSAGE

Read before using DWETS Water Filter Bottle.

When you travel abroad, camp or backpack, you run the risk of illness ranging from the inconvenience and discomfort of diarrhea to more serious illnesses caused by protozoan cysts (i.e., Giardia, Cryptosporidium), viruses and bacteria. The microorganisms that cause these diseases are often found in the food and water you consume.

Lakes, rivers, streams and the local water supply may also be contaminated.

And while you are traveling, make sure that prepared food is thoroughly cooked according to its specified instructions. Select non-cooked foods (fruits, nuts, etc.) that have intact shells or skins, and always sanitize your hands properly before peeling the food.

Wash your hands with soap and warm water thoroughly and often (and use hand sanitizer), especially before you eat or prepare food. Also in groups encourage everyone to wash their hands frequently. Microorganisms can spread to communal gear from one group member not sanitizing their hands properly.

Do not share personal items (lip balm, eating utensils, toothbrushes or water bottles).

Make sure all food is properly prepared and thoroughly cooked.

Filter all drinking water with your DWETS, including water used for brushing teeth, washing your face, etc. according to the instructions in this manual.



KEY COMPONENTS IN SYSTEM

DWETS WATER BOTTLE

CAP

Ergonomically formed with improved spout for easy dispensing. Comfortable carry loop included



SLEEVE

The weave design provides protection, gripability

FLIP TOP New easy open/close flip top secures your water

BPA FREE PLASTIC

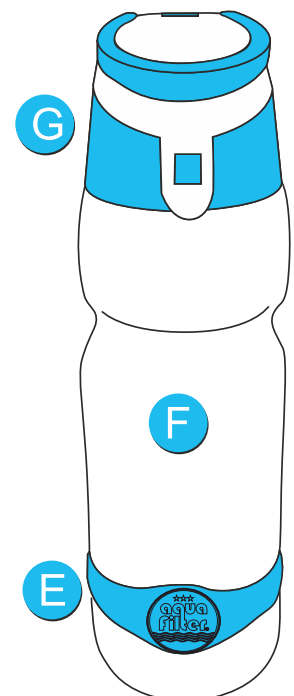
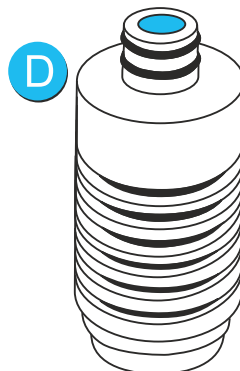
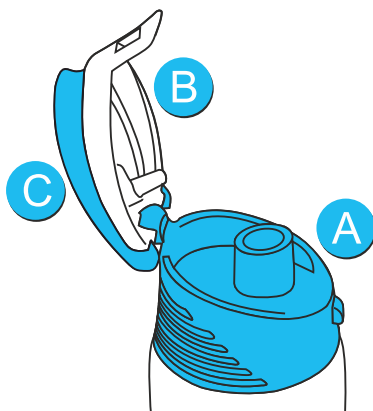
Lightweight shatter-resistant

FILTER CARTRIDGE

Designed for maximum surface contact within protective cage




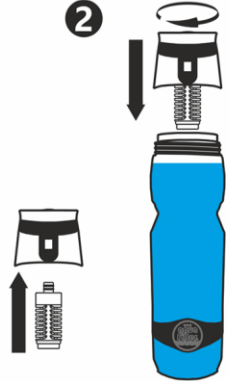
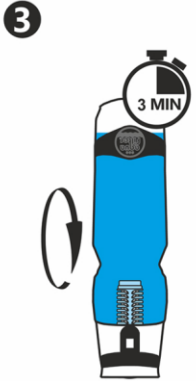

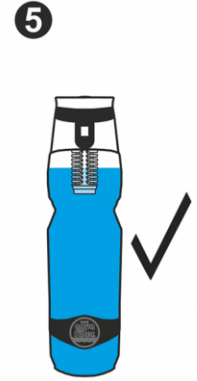
- (A) Drink nozzle
- (B) Nozzle cover
- (C) Bottle hanger
- (D) Filter cartridge membrane
- (E) Grip band
- (F) Bottle BPA free
- (G) Bottle filter housing



PRODUCT SETUP

The DWETS requires minimal setup. For best results, try out The product before first use and familiarize yourself with its operation. **Remove the head of bottle and install the cartridge.**


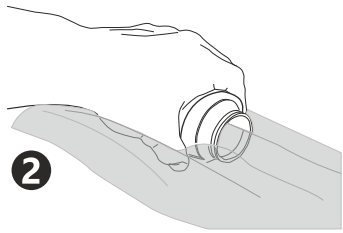


ACTIVATE THE FILTER BEFORE USE:

-  **1** Fill DWETS bottle with water
-  **2** Replace lid and screw shut
-  **3** Invert bottle and let filter soak 3 minutes
-  **4** Squeeze bottle to flush filter 250 ml of water
-  **5** Drink & Enjoy

Cartridge activation

Activate the cartridge and then flush system by running approximately 0.25 liters of filtered or treated water through the DWETS membrane to remove harmless particles.

NORMAL OPERATION

-  **(1)** Open DWETS Bottle by holding the top and unscrew the cap counter-clockwise.
-  **(2)** Fill the bottle with fresh water (not salt or brackish water) from the best water source available (such as clear lakes, rivers or streams or faucets or fountains).
IMPORTANT: WIPE OFF THE FRESH WATER FROM THE OUTSIDE OF THE BOTTLE
-  **(3)** Close DWETS Bottle by screwing the top clockwise ensuring a proper thread seal and avoiding cross-threading which could lead to bypass, ensuring a tight seal.
-  **(4)** Open the safety cover, squeeze lightly the bottle smoothly or drink directly from the drink nozzle.

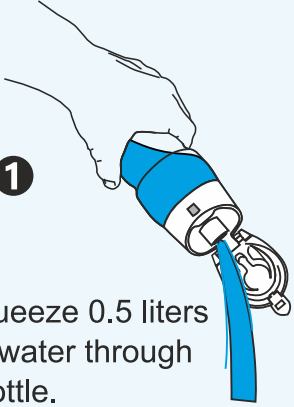
PERFORMANCE TIPS

To extend the life of your bottle filter cartridge, always use the best available fresh water source. Avoid still water or water in areas of heavy human or animal use.

FILTER INTEGRITY TEST

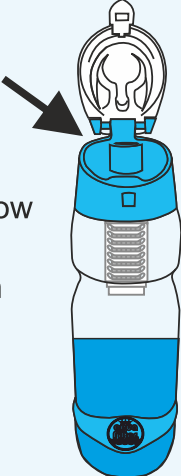
If you suspect that your water filter bottle cartridge may have been damaged in some way, you can perform this quick and easy integrity test in the field:

1



1. Squeeze 0.5 liters fresh water through the bottle.

2



2. Try to blow air - using your mouth - through the drink nozzle into the bottle.

IF YOU:

- >> cannot blow through filter = fiber ok
- >> can blow through filter = fiber broken

Stop: **DO NOT USE FILTER!**
Replace the filtration membrane cartridge.

IMPORTANT: The integrity test only works with a wet filtration membrane.

Maintain your DWETS Bottle Filter to keep it operating properly.

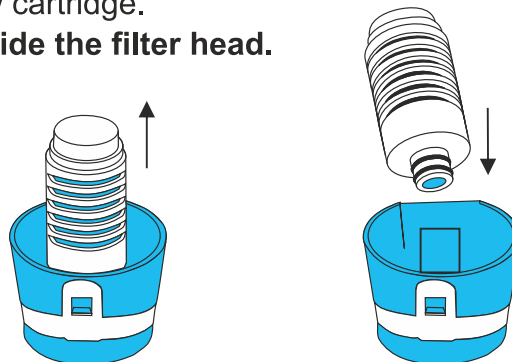
A) IF THE BOTTLE LEAKS NEAR THE CAP

Unscrew the top filter housing and screw it back on. Make sure that you position top filter housing straight on the bottle thread and tighten it firmly.

B) FILTER CARTRIDGE CHANGE

Unscrew the top filter housing from the bottle remove the cartridge by pulling the old one, install by pushing in to the filter housing new cartridge.

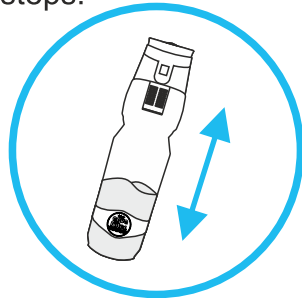
Make sure the cartridge is hold firmly inside the filter head.



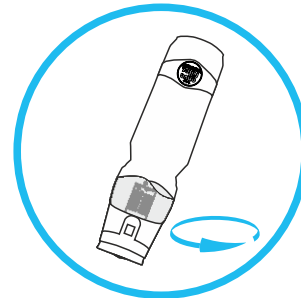
PERFORMANCE TIPS

C) IF WATER FLOW IS SLOW, OR THE BOTTLE BECOMES HARDER TO SQUEEZE, use one of the clean steps:

shake >>



swish >>



Shake

Fill the bottle with fresh water & shake to easily clean the filter cartridge membrane in the field.

OR

Swish

Remove the cartridge and swish in any fresh water source to clean in the field.

DO NOT allow the drink nozzle and top of the filter to contact contaminated water sources).

IMPORTANT: Do not rinse the filter cartridge membrane horizontally under running water.

If shake or swish fail to restore water flow, replace the filter cartridge.

>> **On extended trips, bring along replacement cartridge.**

E) TRAPPED AIR IN THE CARTRIDGE MAY ALSO REDUCE FLOW RATE.

Fill the bottle with a small amount of fresh water, close the system and the cap of the drink nozzle, shake the system, open the cap again and squeeze the bottle until the air goes through the cartridge.

LONG TERM STORAGE (AFTER YOUR TRIP IS OVER)

DISINFECT YOUR WATER BOTTLE BEFORE STORAGE TO PREVENT MICROBIOLOGICAL GROWTH WITHIN THE CARTRIDGE.

1) Fill a 0.5 liter container with filtered or treated water and add 1 purification tablet or if not available, use 4 drops of ordinary household bleach.

2) Pour the solution into the bottle. Close the system by screwing the cap clockwise.

3) Squeeze the entire amount of water through the bottle.

4) Allow the components to air dry completely before reassembling the filter.

Note: When removing the cartridge from long term storage, flush the system with 2 liters of filtered or treated water to remove any stale tasting water.

FILTER CARTRIDGE CAPACITY

The life span of the cartridge depends on water quality. To extend life of your cartridge clean it regularly. For optimum filter performance replace the cartridge after 300* liters or if water flow has slowed or stopped.

BOTTLE FILTER

300 liter filter life*

1 LITER A DAY

10 months

5 LITERS A DAY

2 months

10 LITERS A DAY

1 month

IN-LINE FILTER

400 liter filter life*

1 LITER A DAY

13 months

5 LITERS A DAY

2 and 1/4 months

10 LITERS A DAY

1 and 1/4 month

GRAVITY FILTER

600 liter filter life*

1 LITER A DAY

20 months

5 LITERS A DAY

4 months

10 LITERS A DAY

2 months

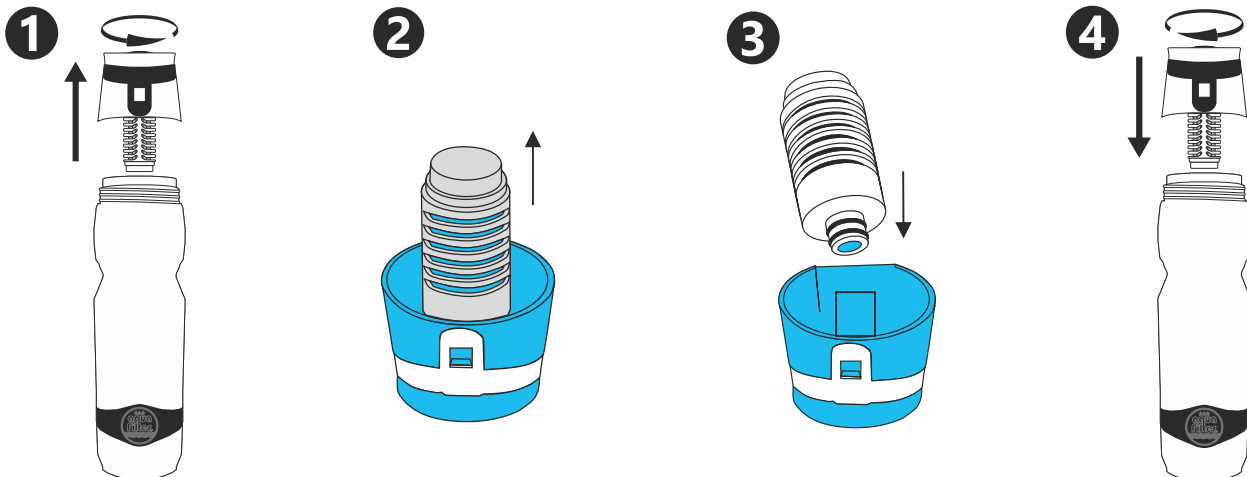
*Filter life depends on the quality of water that is being filtered and the amount of water being filtered.

FILTER CARTRIDGE REPLACEMENT

REPLACEMENT CARTRIDGE INSTALLATION

Replacement cartridge are available from the dealer where you purchased your water filtration bottle.

- 1) To replace your cartridge twist cap in a counter-clockwise motion.
- 2) Remove the cartridge from the filter housing.
- 3) Install new cartridge by pushing inside the filter housing.
- 4) Screw the filter housing into the bottle in a clockwise motion.



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Aquafilter Europe
ul. Sw Teresy 101
91-222 Lodz Poland
Phone: +48 42 6131900
sales@aquafilter.com



Aquafilter

ul.św. Teresy 101, 91-222 Łódź,
Poland
sales@aquafilter.com
aquafilter.com



Aquafilter Germany

Goethestrasse 11A
15234 Frankfurt Oder,
Germany
de.sales@aquafilter.com