A CLOSER LOOK

Ion Exchange and Activated Carbon

Inside the purifier cartridge, non-woven ceramic media fibers block particulates and provide structure for two technologies: positively charged ions (i.e. molecular magnets) and powdered activated carbon.

As dirty water is forced through the media, ion exchange permanently binds pathogens (i.e. virus, protozoa, bacteria). Activated carbon adsorbs chemicals, heavy metals, flavors, and odors.

Clean, Safe Drinking Water

Once purified, 16 ounces of water is ready to chug, sip or store for later. Purified water, anywhere in the world.

How it works

1. **FILL WITH DIRTY WATER.** Scoop from a stream, river, or fill from any bathroom sink or rustic hostel tap.

2. **PRESS ON ANY LOW SURFACE.** Utilizing your body weight, press with steady downward force. To press and purify with the cap on, open cap 1/2 turn to allow air to escape during purification.

3. **DRINK CLEAN, PURIFIED WATER.** Fast and easy; makes safe drinking water in 15 seconds - anywhere!

Global Virus Protection

Waterborne virus is found in tap water in virtually all developing countries. Virus sickens travelers and local populations, killing hundreds of thousands of children annually. Designed for use anywhere on earth, GRAYL provides global protection from all waterborne pathogens plus chemicals, heavy metals, and even microplastics.
**CARTRIDGE INSTALLATION**

**BEFORE FIRST USE!**

**INSTALLATION**

Insert purifier into INNER PRESS and rotate counter-clockwise. Screw purifier until purifier lock tab clicks down. Do not overtighten.

**CARE AND USE**

**DO NOT USE SOAP ON PURIFIER CARTRIDGE.**

Do not wash cartridge with soap or other cleaning agents. Soap will damage the purifier media. You may clean the cartridge with warm water as needed.

**USE ULTRALIGHT™ (PURIFIER CARTRIDGE) BY NAME.**

The Color Black indicates Cartridge. A gray Purifier Press can be washed by hand with warm, soapy water. Do not dry any components into a dishwasher. Do not wash Purifier Cartridge with soap or any other cleaning agents.

**LONG-TERM STORAGE.**

For long-term storage, prepare ULTRALIGHT™ for storage to prevent growth of mildew and odors. Thoroughly dry out purifier by pressing the purifier into an empty (no water) Outer Refill and dump excess water. Allow cartrigde to air dry thoroughly (depending on humidity it will take 2-4 days to completely dry). Hand wash all other parts with warm, soapy water. Reassemble unit and twist purifier clockwise. Pull out purifier lock tab until purifier lock tab clicks. Do not over tighten.

**REPLACE CARTRIDGE.**

Locate purifier lock tab at bottom of INNER PRESS. The purifier can be replaced twice. Discolored water (caused by harmless activated carbon dust) is normal during the first few cycles. Do not replace cartridge by performing one ‘dry press’ by pressing the wet Purifier Cartridge into INNER PRESS and twist purifier clockwise. Pull out purifier lock tab until purifier lock tab clicks. Do not over tighten.

**PURIFICATION scope.**

Use only fresh water (if necessary) or boiled water. Do not use with brackish water or salt.

**CROSS CONTAMINATION.**

Do not expose/fill the Inner Press with untreated water, cross contamination may occur. If this does happen, remove and wash ULTRALIGHT™ first Purifier Cartridges with soapy water and then thoroughly dried. Discard potential contaminants by pressing (and agitating) water through the ULTRALIGHT™ 15-20 times.

**STORAGE THE BEST WATER.**

Always begin with the cleanest (least dirty) water available. For instance, streams are generally better than lakes and bogs (or any other water source in these situations. AUL TRALIGHT Purifier Cartridges are designed to remove trace levels of chemicals and heavy metals. The ULTRALIGHT™ was NOT designed to protect against industrial disasters, coal ash spills, very high lead levels, mercury, radioactive disasters or toxic blue-green algae (cyanobacteria). Find another water source in these situations.

**CARTONS WITH TANNINS.**

Tannins are natural organic compounds that leach from decomposing vegetation and trees in many water sources; the clearer, the better. High levels of silt or sediment will shorten the lifespan of the cartridge. Typically, when clear water, a cartridge will be effective for ~300 cycles (900 gal/350L). As “press time” reaches ~25 seconds (in three to four years) it is time to replace your cartridge.

**SHELF LIFE OF UNOPENED PURIFIER CARTRIDGES.**

Stored away from pressure, an unused (and air-tight) cartridge has a shelf life of 10 years. Do not expose to pressure. Do not use cartridge after 3 or more freeze/thaw cycles. However, don’t use a cartridge after 2 more freeze/thaw cycles. Protect your ULTRALIGHT™ in freezing temperatures by keeping it full of water and insulate in a jacket or sleeping bag.

**NO HOT (OR BOILING) WATER, OR MICROWAVES.**

Do not reheat UltraLight™ Purifier Cartridges or water hotter than 125°F (52°C). It will melt purifier media. Do not put the ULTRALIGHT™ in the microwave.

**UNCONDITIONAL DURABILITY.**

Incredibly durable, a ULTRALIGHT™ Purifier withstands drop tests (can fall up to 10 feet/3 meters) normally.

**PRECAUTIONS**

**PURIFY FRESHWATER ONLY.**

Use freshwater only (no other liquid). Do not use in branch water.

**If there is magic on this planet, it is contained in water.**

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