



Read First

The osmotic filter cartridge is installed in this bladder. If you are using the bladder with clean water only, you may remove and store the filter.

Things to note before filtering water:

- 1] The Expedition provides very high levels of purity. Nevertheless, always choose the best possible water source for filtering. Never use auto coolants, and avoid industrial sewage. Brackish water is O.K., but do not use sea water.
- 2] **FIRST USE ONLY:** Let the system run for at least 30 minutes before drinking. This is to allow the glycerine coating on the membrane to dilute out. The glycerine is food-grade, however it has a bitter taste. This is not necessary after the first use.
- 3] When injecting syrup, make sure you push hard to properly seat the nipple on the syrup pouch. Failure to do so may result in syrup spills.
- 4] The bladder must be in an approximately vertical position for the filtration process to work -- i.e., either on your back or sitting upright.
- 5] If the system is not producing drink, check to make sure that the filter cartridge is firmly snapped into place. Push hard, as it may appear to be seated without making a good connection.

Please read all instructions.

Questions?
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Expedition Instructions

The Expedition™ is the most advanced hydration system available. Its two water reservoirs allow for use with both potable and contaminated water in one bladder, while the in-line osmotic filter provides superior levels of protection. Viruses, bacteria and cysts are removed to EPA standards. Best of all, it is hassle-free, fill-and-go filtration that works with virtually any water source without clogging.



ANYWATER ANYWHERE®



System Components

- 1) One Expedition bladder with detachable drink tube
- 2) One osmotic filter cartridge
- 3) Ten 120-ml Sports Drink Syrup pouches
- 4) Cleaning kit including squeeze bulb pump, two bottles of preservative solution, and system cleaning tablets
- 5) Collapsible cup
- 6) Storage case for osmotic filter cartridge

Important Notes

Using With Clean Water: The Expedition may be used with clean or contaminated water. If clean water is available, pour directly through the round port labeled 'Clean Water Port'. Never pour contaminated water through the round opening. For use with clean water, the filter may be removed and stored in the provided storage bag, or left in place.

First filter use: The Expedition's osmotic membrane filter is shipped with a coating of food-grade glycerine. This comes off and into the first filtered water. Because of the bitter taste, we recommend you wait 30 minutes before drinking to let it dilute out. With all subsequent uses you may begin drinking as soon as there is filtered drink.

Never use auto coolants, salt water, or industrial sewage in the Expedition. Always choose the best possible water source for filtering.

Follow A Regular Cleaning Schedule for optimum filter performance.

| Bladder Volumes | Without Filter | With Filter Installed |
|-----------------------|----------------|-----------------------|
| Clean Water Reservoir | 3.0 Liters | 1.9 Liters |
| Dirty Water Reservoir | NA | 2.5 Liters |

Installation of Osmotic Filter

- 1) Unbuckle, unroll and remove the roll-top slider. When re-closing the roll-top opening, follow printed instructions at top of bladder for correct procedure to avoid small leaks.
- 2) Slip filter into the bladder with the hoses pointing up and the filter at a slight angle as indicated in diagram 1. If the bladder is held so that the round cap is facing toward you, then the female fitting on the filter should be rotated to the left hand side.
- 3) Connect the cartridge to the male and female quick-disconnect fittings inside the bladder (diagram 2). It may be helpful to have one hand inside the bladder and one hand grasping the hoses from the outside of the bladder.
- 4) **Make sure the fittings firmly seat. You should hear an audible 'click' when properly connected. Poor connections may keep the system from running or allow cross-contamination.**
- 5) After the filter is installed, look inside the bladder and make sure that the gray quick-disconnect buttons on the filter hoses are facing inward, toward each other. This will help prevent accidental disconnects during use.



diagram 1

diagram 2

At 20°C (68°F), the filter will process between 3/4 and 1 liter per hour.

Filtering Water

- 1) Connect a syrup pouch **firmly** to the syrup port. Squeeze syrup into the syrup chamber. Push gray button and remove syrup bag.
- 2) Unbuckle and remove the roll-top slider. Fill the reservoir with water to be filtered to the point where the neck narrows. **Do not use seawater or antifreeze. Avoid industrial waste and sewage.**
- 3) Grab the bladder at the edges where the neck narrows and let the top flop over to expel excess water and air. Reinstall slider.
- 4) Buckle the straps and cinch tightly. The buckle should be on the same side of the bladder as the syrup port. The filter is now processing water. **The bladder should be kept in a vertical position, and will not function properly if horizontal.**
- 5) To restart system, empty the dirty water reservoir of any remaining water and repeat steps 1-4. Clean filter weekly or prior to storing for more than 48 hours. **After initial use, filter cannot be allowed to dry out. Refer to Cleaning & Storage.**



Expedition Instructions

Cleaning and Storage of Filter with Potable Water

Once filter has been used, the filter must not dry out during storage. When used as a water filter, clean weekly or prior to storing for more than 48 hours. For short term storage, empty Clean and Dirty Water Reservoirs, close lid & roll top.

- 1) Pour two cups of clean water through Clean Water Port.
- 2) Add one bottle of Preservative Solution (Caution: Contains sulfites. If allergic, do not use.) Close port and mix.
- 3) Attach squeeze bulb pump to syrup port.
- 4) With bladder upside down, pump ten squeezes of water.
- 5) Drain remaining water through drink tube.
- 6) For storage, either keep the filter in place with roll top and clean water port closed, or remove the filter and store in the separate sealed storage bag.

To Restart System

- 1) If removed, re-install filter in bladder according to instructions.
- 2) Before using, pour two cups of clean water through the Clean Water Port.
- 3) Attach squeeze bulb to Syrup Port and pump ten squeezes of water.
- 4) Drain remaining water through the drink tube.
- 5) Close all ports until use.

Cleaning Reservoirs

- 1) Empty remaining water from reservoir.
- 2) Fill reservoir one-third to one-half full with clean water.
- 3) Drop one cleaning tablet into bladder.
- 4) Wait 15 to 30 minutes, shaking bladder often.
- 5) Discard treated water and rinse well before use. Do not ingest tablet.

Troubleshooting

At 20°C (68°F), the Expedition produces 3/4 to 1 liter per hour. Production rates will be faster at warmer temperatures, slower at colder temperatures.

- 1) **System not producing any drink 20 minutes after a fill:** Check that there is syrup in the syrup chamber above the port that feeds the cartridge, that the filter cartridge fittings inside the bladder are firmly connected, that the bite tube is **firmly** attached and its valve is open, and check that there is water in the Dirty Water Reservoir.
- 2) **System producing drink slowly 20 minutes after a fill:** Check same as in 1) above. Also, check that the system is nearly vertical and that the top of the cartridge is submerged in water. If everything checks out OK, clean Filter as described above.
- 3) **Unpleasant drink:** This most likely occurs on the initial use of the cartridge (due to the food-grade glycerine used in shipping) or immediately after cleaning (due to the sulfite solution). Either dump the initial 20 minutes of drink or wait until it is more dilute.

The Expedition filter utilizes a proprietary reverse osmosis membrane. In independent laboratory tests the HydroWell filter meets or surpasses 6-log bacteria (99.99999%), 4-log virus (99.999%) and 3-log parasites and cyst (99.9%) reductions as specified by the EPA for water purifiers.

Do not use antifreeze or seawater. Human waste and industrial sewage not recommended. Read all instructions prior to use. Follow regular cleaning schedule for best performance.



Preservative Solution Label

Preservative Solution

10-ml 14% sodium metabisulfite in water. Helps keep system clean. Follow all cleaning directions.

WARNING: Do not ingest solution. Contains sulfites. If allergic, do not use.



Expedition Syrup Label



Sports Drink Syrup

For use with the Expedition Osmotic Filtration System

Ten 120-ml pouches
Mixed Berry

Net wt. 3.5 lb (1.6 kg)

Nutrition Facts

Serving Size: 8 fl oz (237 ml) prepared
Servings per Container: about 90 (9/pouch)

| Amount Per Serving | |
|-------------------------------|----------------|
| Calories: 50 | |
| | % Daily Value* |
| Total Fat 0g | 0% |
| Sodium 85mg | 4% |
| Potassium 25mg | 1% |
| Total Carbohydrate 12g | 4% |
| Sugars 11g | |
| Protein 0g | |

Not a significant source of calories from Fat, Saturated Fat, Cholesterol, Dietary Fiber, Vitamin A, Vitamin C, Calcium, Iron.

*Percent Daily Values are based on a 2,000 calorie diet.

INGREDIENTS: SUCROSE, WATER, DEXTROSE, FRUCTOSE, CITRIC ACID, NATURAL AND ARTIFICIAL FLAVORS, SALT, SODIUM CITRATE, MONOPOTASSIUM PHOSPHATE, SODIUM BENZOATE, POTASSIUM SORBATE.

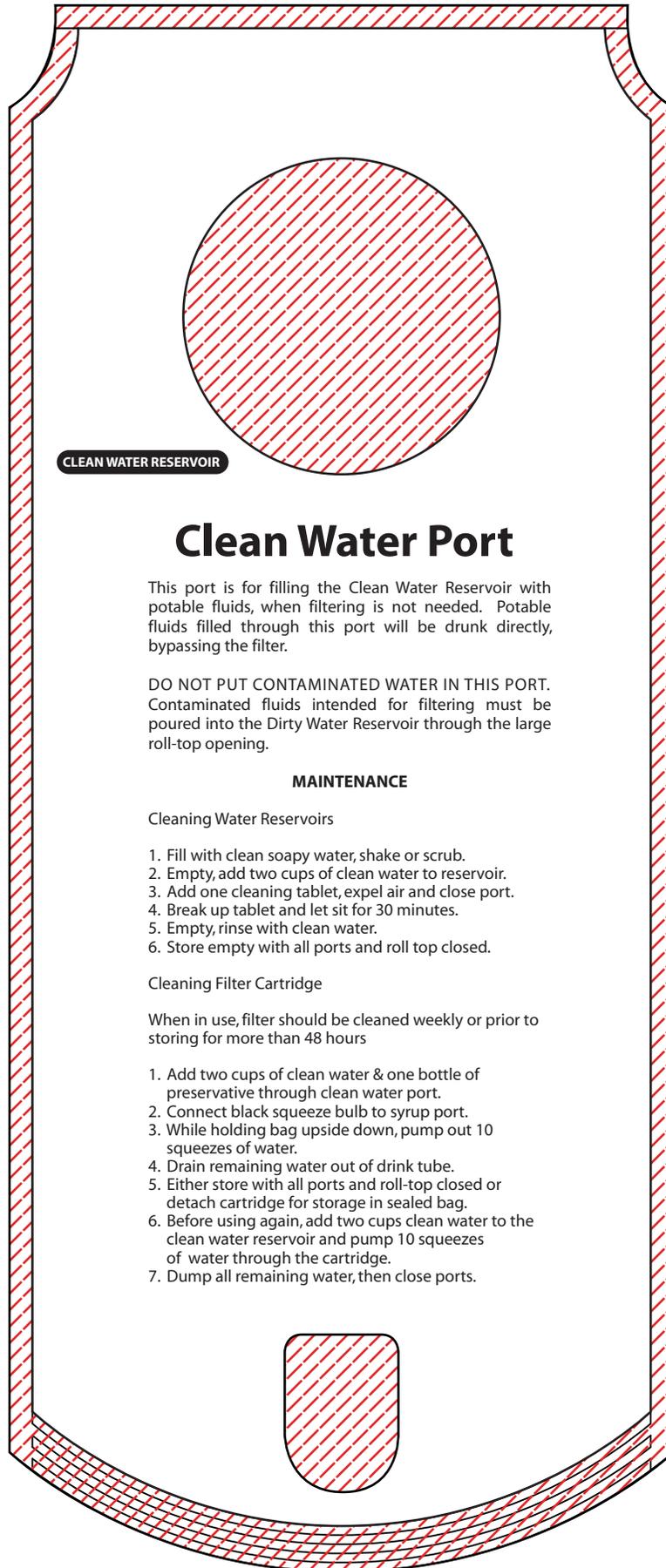
Expiration Date: 5 years after packaging date when stored continuously below 90°F (33°C). If possible, store cool and away from direct sunlight.

Not packaged for individual sale.



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Expedition Bladder - Clean Water Side



CLEAN WATER RESERVOIR

Clean Water Port

This port is for filling the Clean Water Reservoir with potable fluids, when filtering is not needed. Potable fluids filled through this port will be drunk directly, bypassing the filter.

DO NOT PUT CONTAMINATED WATER IN THIS PORT. Contaminated fluids intended for filtering must be poured into the Dirty Water Reservoir through the large roll-top opening.

MAINTENANCE

Cleaning Water Reservoirs

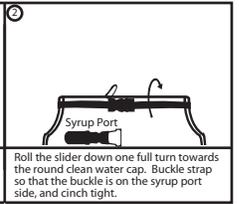
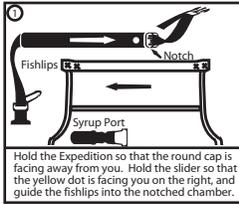
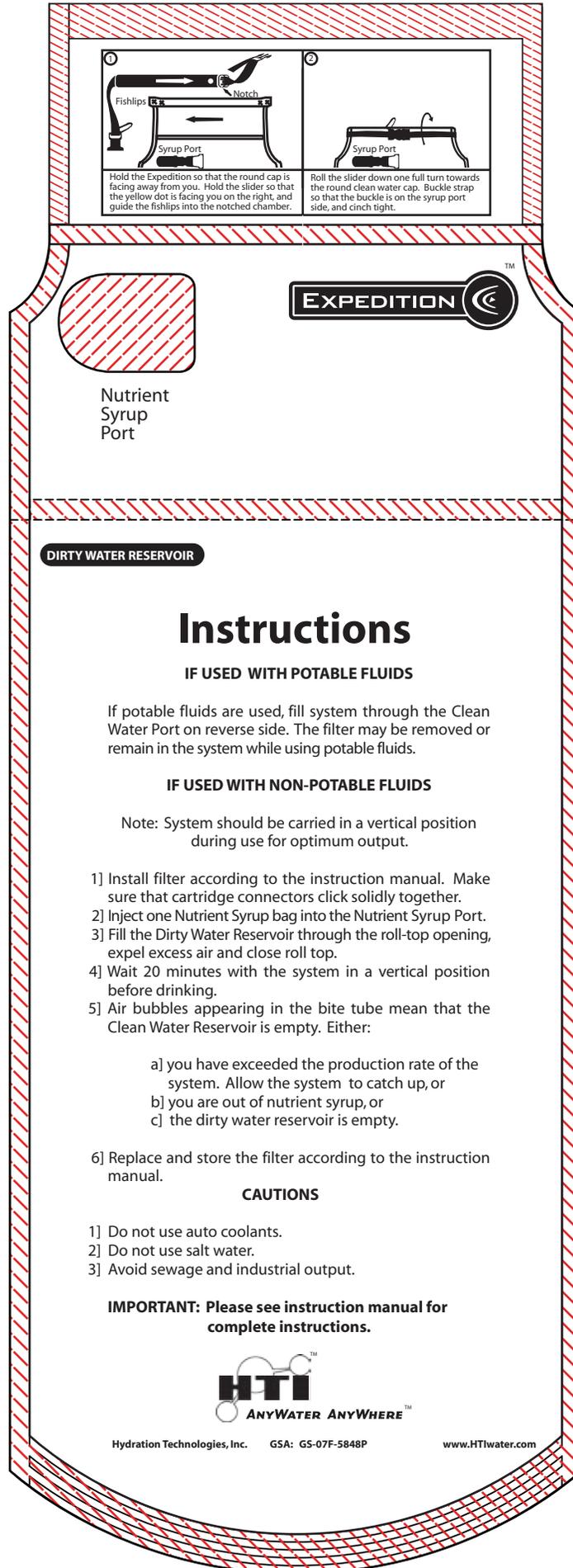
1. Fill with clean soapy water, shake or scrub.
2. Empty, add two cups of clean water to reservoir.
3. Add one cleaning tablet, expel air and close port.
4. Break up tablet and let sit for 30 minutes.
5. Empty, rinse with clean water.
6. Store empty with all ports and roll top closed.

Cleaning Filter Cartridge

When in use, filter should be cleaned weekly or prior to storing for more than 48 hours

1. Add two cups of clean water & one bottle of preservative through clean water port.
2. Connect black squeeze bulb to syring port.
3. While holding bag upside down, pump out 10 squeezes of water.
4. Drain remaining water out of drink tube.
5. Either store with all ports and roll-top closed or detach cartridge for storage in sealed bag.
6. Before using again, add two cups clean water to the clean water reservoir and pump 10 squeezes of water through the cartridge.
7. Dump all remaining water, then close ports.

Expedition Bladder - Dirty Water Side



DIRTY WATER RESERVOIR

Instructions

IF USED WITH POTABLE FLUIDS

If potable fluids are used, fill system through the Clean Water Port on reverse side. The filter may be removed or remain in the system while using potable fluids.

IF USED WITH NON-POTABLE FLUIDS

Note: System should be carried in a vertical position during use for optimum output.

- 1] Install filter according to the instruction manual. Make sure that cartridge connectors click solidly together.
- 2] Inject one Nutrient Syrup bag into the Nutrient Syrup Port.
- 3] Fill the Dirty Water Reservoir through the roll-top opening, expel excess air and close roll top.
- 4] Wait 20 minutes with the system in a vertical position before drinking.
- 5] Air bubbles appearing in the bite tube mean that the Clean Water Reservoir is empty. Either:
 - a] you have exceeded the production rate of the system. Allow the system to catch up, or
 - b] you are out of nutrient syrup, or
 - c] the dirty water reservoir is empty.

- 6] Replace and store the filter according to the instruction manual.

CAUTIONS

- 1] Do not use auto coolants.
- 2] Do not use salt water.
- 3] Avoid sewage and industrial output.

IMPORTANT: Please see instruction manual for complete instructions.

