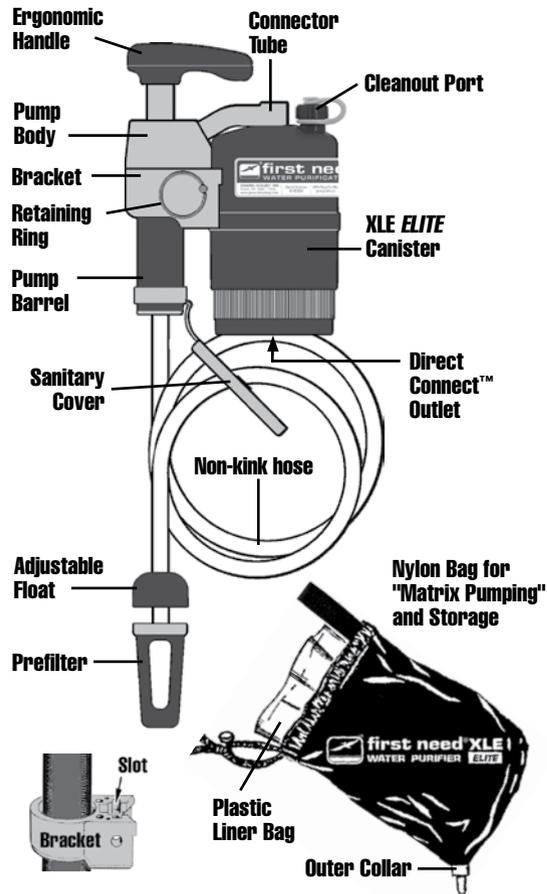


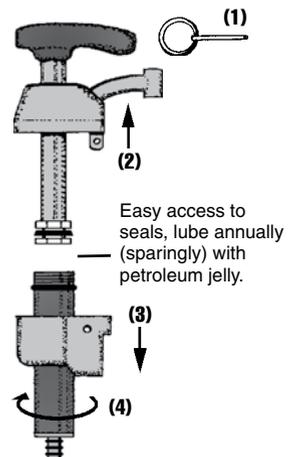
## Parts



## first need® XLE ELITE

### DISASSEMBLY

- (1) Pull retaining pin out.
- (2) Lift connector tube from canister. Slide pump body up.
- (3) Slide bracket down.
- (4) Unscrew pump barrel.



<b>Flow Rate</b> .....	approximately 2 qts. per min.
<b>Micron Retention</b> .....	0.4 micron
<b>Weight</b> .....	16 oz.
<b>Capacity*</b> .....	180 gallons
<b>System Part No</b> .....	322200
<b>Canister Part No</b> .....	302220

## Canister Replacement

1. Open the sanitary cover on the first need XLE ELITE canister.
2. Pull and remove the retaining pin from the bracket located on the pump barrel. (see parts and disassembly diagrams)
3. Slide the bracket down the pump barrel, then disengage the canister's hooked tab from the bracket.
4. Remove the connector tube from the top port of the canister.
5. Remove and discard the used canister.
6. Place new canister's hooked tab into the slot in the bracket, pull down until canister snaps into place and is fully seated.
7. Slide bracket with canister attached up the pump barrel until retaining pin holes are aligned.
8. Insert retaining pin completely into the hole, locking the replacement canister onto pump.
9. Secure the connector tube onto the new replacement canister's top port.
10. Replace sanitary cover.



### Important Note:

\*Performance may vary according to influent water quality. **first need canisters** remove contaminants to 0.4 micron, well below visual levels. Even though wilderness waters appear "crystal clear" unseen microscopic contaminants such as bacteria, cysts and silt are being removed by the system. This may contribute to earlier clogging than customer expectations given the "clear" water appearances.

## Hydration Bag Connection



first need XLE ELITE purifier conveniently connects directly to Camelbak® type water bags equipped with 3/8" hosing.



1. Remove existing mouth piece from water bag.
2. Push end of water bag 3/8" hose onto "Direct Connect Outlet" nipple located on the underside of the first need® canister as far as it will go.

**Add water purity to your life...**for more information/questions about these or other General Ecology® products please contact:

(610) 363-7900 for Technical Questions

800-441-8166 et m-f for retail orders - (610) 363-0412 24 hr. fax

www.generalecology.com - e-mail: info@generalecology.com



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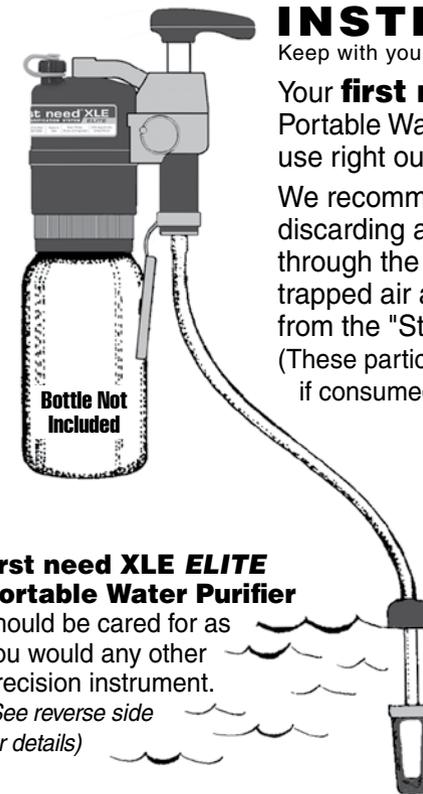
## first need® XLE WATER PURIFIER ELITE

### INSTRUCTIONS

Keep with your System

Your **first need XLE ELITE** Portable Water Purifier is ready to use right out of the box.

We recommend pumping and discarding an initial pint of water through the new unit to remove trapped air and loose particles from the "Structured Matrix™". (These particles are harmless if consumed.)\*\*



Independently certified to EPA Guide Standard Protocol for Microbiological Purifiers against Bacteria, Cysts and Viruses!

### first need XLE ELITE Portable Water Purifier

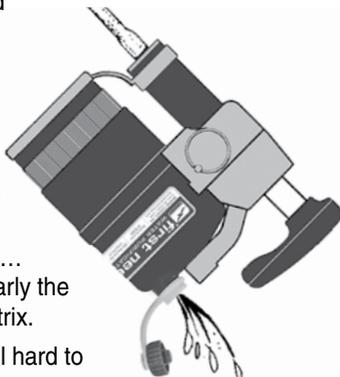
should be cared for as you would any other precision instrument. (See reverse side for details)

No Chemicals - No Batteries - No Hold-Time - Quick & Easy to Use

## Cleanout Port Instructions

**first need XLE ELITE's Cleanout Port** removes surface debris and contaminants that accumulate on the canister's matrix during normal operation. The Cleanout Port should be used daily, or as needed; with the cleanest water available, to lessen accumulation of this surface debris. Frequent cleanout is necessary because as debris builds up on the matrix surface the pump will need more pressure to work. Higher pump pressure forces debris and microscopic particles into the matrix, clogging it sooner, and lowering the rated canister capacity.

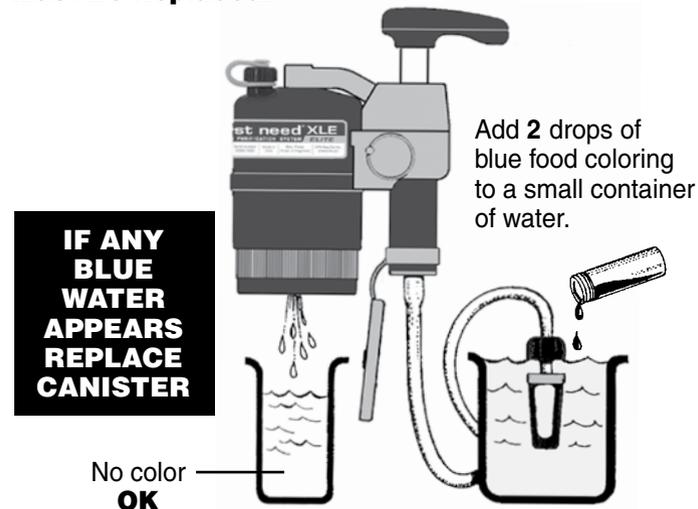
1. Pump to fill the canister with the cleanest water available. Shake the unit to dislodge contaminants and debris within canister.
2. Place the sanitary cover on the canister and open the Cleanout Port on the top.
3. Invert the system and slowly pump clean water through the canister. The goal is to develop a rinsing flow to dislodge debris on the matrix surface... especially the invisibly fine debris nearly the same size as the openings in the matrix.
4. Repeat steps 1 to 3 if the pump is still hard to operate.
5. Close the Cleanout Port. Remove the sanitary cover.
6. Always perform the **"Blue Dye" Integrity Test** to be sure the canister has not been damaged before relying upon the **first need XLE ELITE** to produce purified water.
7. Pumping a diluted chlorine solution is recommended as a final step during long term storage (not required for daily use).



## Integrity Test Procedure

### "Blue Dye" Integrity Test\*\*

Pump blue colored water through canister as shown. If the purified water is still colored, even faintly, the internal matrix has most likely been damaged and **The Canister Can Not Be Relied Upon Under This Condition And Must Be Replaced.**



\*\* Because the initial flow from a new purification canister may contain black "fines" (harmless) from the manufacturing process, it is best to pump at least one pint of water before doing an integrity test to avoid possible confusion.

## Hands Free "Matrix Pumping"<sup>TM II</sup>

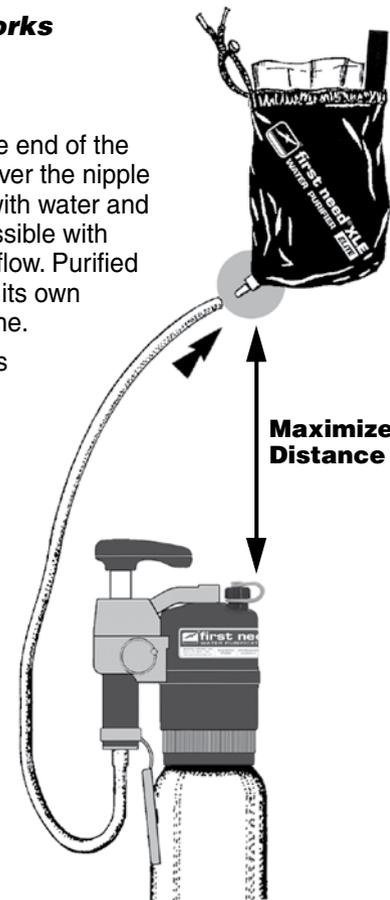
**"Matrix Pumping" works even with a partially clogged canister.**

Remove the pre-filter from the end of the hose and slip the hose-end over the nipple on the storage bag. Fill bag with water and hang above unit as far as possible with attached loop. Pump to start flow. Purified water will continue to flow on its own after all air is expelled from line.

Note that flow rate will be less than normal flow.



To replace the plastic liner, slide off the outer collar that holds on the nipple to release the liner. Make **small** hole in a corner of any suitable plastic bag.



## Helpful Tips For Optimum Use

1. Perform "Blue Dye" Integrity Test **before each trip** and check that pump is in working order.
2. Use the cleanest water available.
3. If pumping becomes difficult, clean out or replace canister.
4. Remember "Matrix Pumping" works (slowly) even with a partially clogged canister.
5. Avoid freezing or high impacts - perform "Blue Dye" integrity test procedure if canister freezes or receives a shock. If canister freezes it should be thoroughly defrosted before use.
6. Store in a clean, dry area away from fumes. Keep Sanitary Cover in place at all times when not purifying water.
7. Questions or replacements contact us at **800-441-8166** or [www.generalecology.com](http://www.generalecology.com).

## Seasonal/Long Term Storage

1. Follow and complete the **Cleanout Port instructions**.
2. Pump unit to expel loose water.
3. Mix approximately 2-3 drops of household bleach to 8 ozs. of clean water. Drop approximately 3 drops of this solution into the Direct Connect Outlet. Firmly place on the Sanitary Cover and shake to disperse the solution.
4. Entire unit can be stored in "Matrix Pumping" nylon bag, (not inside clear plastic liner bag). Keep Sanitary Cover on canister to keep Direct Connect Outlet clean.
5. Store in a clean, dry area away from fumes and freezing temperatures.