

- By pressurizing only on the downward stroke, the TRAV-L-PURE pump is especially easy to use.
- A Gore-Tex® seal covers the vent holes in the pump barrel nut to prevent “loose” water-flow around the pump shaft.
- The system is especially easy to clean and maintain because the entire internal assembly can be removed from the container by simply removing the pump barrel nut. This allows removal of the pump piston and shaft assembly.
- The container lid includes an O-ring to seal the container to avoid leakage during transport.
- For the convenience of readily available water on demand, the container provides 1-1/2 pints or storage capacity and is especially easy to fill.

Compared to any other product of this type, regardless of price, the TRAV-L-PURE unit is especially “user-friendly”, reliable, and produces superior drinking water...delicious and refreshing just as nature intended!

## TIPS TO MAXIMIZE SYSTEM PERFORMANCE

- Always fill the supply canister from the cleanest water source available. Obviously, avoid raw sewage and undiluted industrial discharges. If water is visibly cloudy, fill a container with water, allow dirt to settle, then pour water into the TRAV-L-PURE container. Please remember, however, that cysts, asbestos, silt, etc. and most other harmful contaminants are invisibly small and can sometimes clog the canister as quickly as murky waters, depending upon the concentrations and characteristics of the contaminants. Rapidly moving water, whether clean or murky, typically carries high levels of clogging debris and should be avoided.
- Avoid freezing the unit. Although freezing will not destroy the “Structured Matrix™”, excess loose water may rupture the

canister and water cannot pass until the microfiltration matrix is sufficiently thawed.

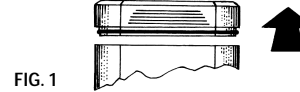
- While the TRAV-L-PURE unit is sturdy, it can break if dropped; or if frozen while full of water. Check to be sure the system is intact. A simple test to assure that the canister has not been damaged internally, either during use or transport, is to:

Add two drops of blue food dye coloring (included with unit) to the water in the TRAV-L-PURE container. Pump this solution through the unit. The microfiltered water should be colorless. If blue color shows, even faintly, the internal canister matrix has most likely been damaged. **THE SYSTEM SHOULD NOT BE RELIED UPON UNDER THIS CONDITION AND MUST BE REPLACED.**

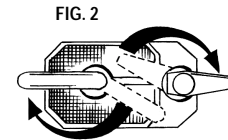
- For storage between trips, we recommend that 1 pint (500 ml) of a diluted disinfectant solution (iodine per instructions or a diluted household bleach, 1/4 tsp. to 1 gallon water — NO MORE!) be pumped slowly through the TRAV-L-PURE system. (Do not add undiluted bleach directly to the unit.) Then pump the remaining “loose” water from the canister. Because of the possibility of airborne microorganisms collecting on exterior of canister matrix during periods of non-use, and as a matter of good maintenance, we recommend repeating this procedure prior to the next use.
- Ultrafine microstraining causes back pressure during pumping. A rapid reduction in pumping pressure, compared to pressure experienced during initial use of the new unit, is an indication of possible damage to the canister matrix. The most likely cause of damage is shock loading if dropped or during transportation. The unit should be checked, accordingly, before further use as outlined in Step #3, above.
- The canister will eventually clog with particulate matter. When pumping becomes difficult, remove and check the prefilter (see steps 4 & 5, page 6) and rinse clean as necessary. If this does not reduce pumping pressure and the flow rate is still reduced, the canister should be replaced (see steps 6, 7 & 8, page 7).

## TRAV-L-PURE STEP-BY-STEP OPERATION

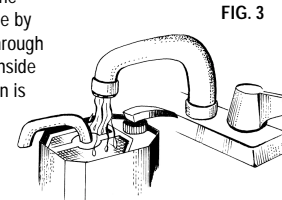
- Remove lid and test dye bottle. (Fig. 1)



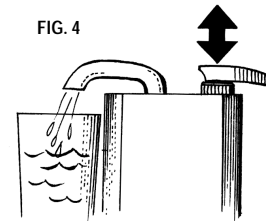
- Rotate the spout tip and the pump handle to the operating position (see Fig. 2) Remove cap from spout and store on stud inside canister cover.



- Fill the container with the cleanest water available by slowly pouring water through the fine screen of the inside cover plate. This screen is intended to prevent coarse debris from damaging the pump. (Fig. 3)



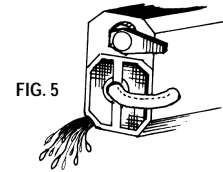
- Position a clean receptacle under the TRAV-L-PURE outlet spout and begin to pump with slow steady strokes (the pump pressurizes on downstroke only) to obtain about 1 pint of drinking water per minute. (Fig. 4)



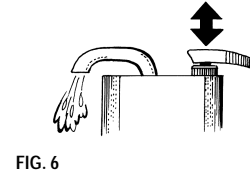
The first few pints of water through a new purification canister may contain air bubbles and fine black particles of adsorption material. These are non-toxic but may be discarded.

## STORING THE SYSTEM AFTER USE

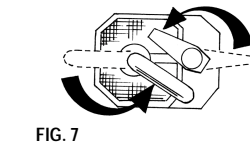
- Empty excess water from the housing container. Note that a drain opening has been provided in the corner of the cover plate for this purpose. (Fig. 5)



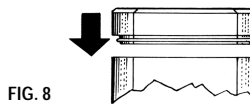
- Operate the pump to expel loose water from the microfiltration canister. (Fig. 6)



- Cap the spout and rotate spout and pump handle into the storage position. (Fig. 7)



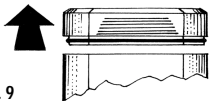
- Replace test dye bottle and lid. (Fig. 8)



## TO CLEAN PREFILTER OR REPLACE PURIFICATION CANISTER

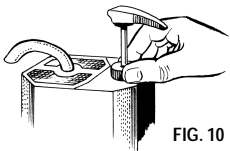
1. Remove lid and test dye bottle. (Fig. 9) Fill with water and drain.

FIG. 9



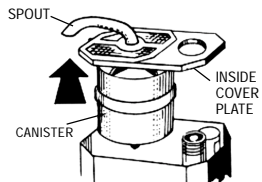
2. Loosen knurled nut below pump handle. Pull pump handle straight up to remove shaft and piston. (Fig. 10)

FIG. 10



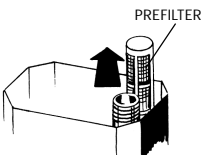
3. Grasp spout and pull straight up, removing the cover plate and canister all together, from the TRAV-L-PURE housing. (Fig. 11)

FIG. 11



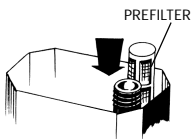
4. To clean prefilter, grasp top of filter element and pull out of the receptacle in the base of the canister reservoir. The element can then be rinsed or lightly wiped to remove accumulated debris. (Fig. 12)

FIG. 12



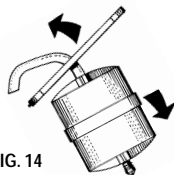
5. Reinstall the prefilter by positioning the element in the receptacle and gently pushing downward while guiding the end into position. (Fig. 13)

FIG. 13



6. Remove the purification canister from the cover plate by carefully sliding the canister spout through the grommet in the cover plate. (Fig. 14)

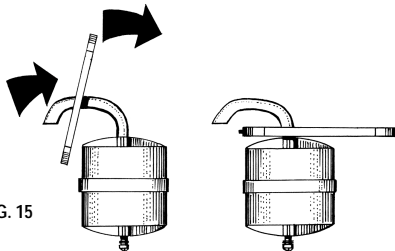
FIG. 14



7. Install the new purification canister by pushing the spout through the grommet in the cover plate. This operation is made easier by lubricating the grommet with a small amount of petroleum jelly or water.

Slide the cover plate along the spout until the bottom of the cover plate contacts the top of the purification canister. (Fig. 15)

FIG. 15



8. Reinstall the purification canister by grasping the spout and gently seating the new canister assembly into the TRAV-L-PURE housing. The cover plate has a tab that fits into a slot in the housing and is supported on the opposite side by two extensions on the housing wall. (Fig. 16)

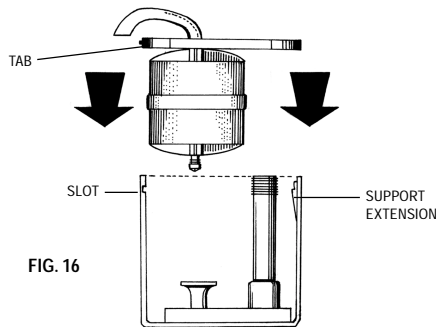
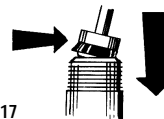


FIG. 16

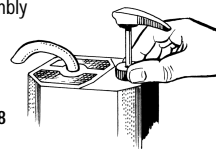
9. Reinstall the pump piston into the barrel. Lubricate as in Step 7. Compress piston seal edges to fit into pump barrel. (Fig. 17)

FIG. 17



10. Thread knurled nut onto the pump barrel to hold the assembly in place. Do not overtighten. (Fig. 18)

FIG. 18



the pure science of safe water™  
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MADE IN THE USA

## FIRST NEED® TRAV-L®-PURE Portable Drinking Water Purifier

### INSTRUCTIONS

#### GENERAL DESCRIPTION

First Need TRAV-L-PURE Drinking Water Purifier is a reliable precision instrument using General Ecology's unique, state-of-the-art technology to produce superb drinking water. Incorporating a special version of General Ecology's well proven First Need purification canister with 0.1 micron retention (0.4 micron absolute), it is equally effective against the same contaminants including, of course, waterborne enteric disease bacteria, Giardia, Cryptosporidia, particulates, trace solvents, pesticides, herbicides, and foul taste and odors. First Need portable water purifiers are independently certified to meet EPA microbiological standards against cysts, bacteria, and viruses.

TRAV-L-PURE water is great tasting and refreshing. For many applications such as picnicking, tent camping, vacation and business travel, vacation cottages, hunting cabins, scouting and even backpacking, users will find the TRAV-L-PURE system offers superior ease of use and convenience through the following features:

1. For convenient handling, packing and storage, the unit is especially compact and entirely self-contained with NO hoses or other external parts.
2. For longer cartridge life and to reduce potential damage to the pump, two stages of cleanable, prefiltration are contained within the system. The first is a fine micron screen intended primarily to prevent larger debris from entering the system when filling the container. The second is an even finer prefilter to help extend canister life.
3. The pump barrel, piston and shaft are made of specially treated, lightweight metal. For extra reliability and long life, the inside of the pump barrel is hardened and honed much like the cylinders in fine motor car engines for dependable, smooth operation.