

# Berkey® Water Filters

*"Simply the Best"*

New Millennium Concepts Ltd.

## Model: Berkey Light™

## Berkey Light™ with LED Light Base

### INTRODUCTION:

Now that you have bought your **Berkey®** water purifier, you have taken the first step towards protecting you and your family from disease causing pathogens and other waterborne contaminants that may be in your water.

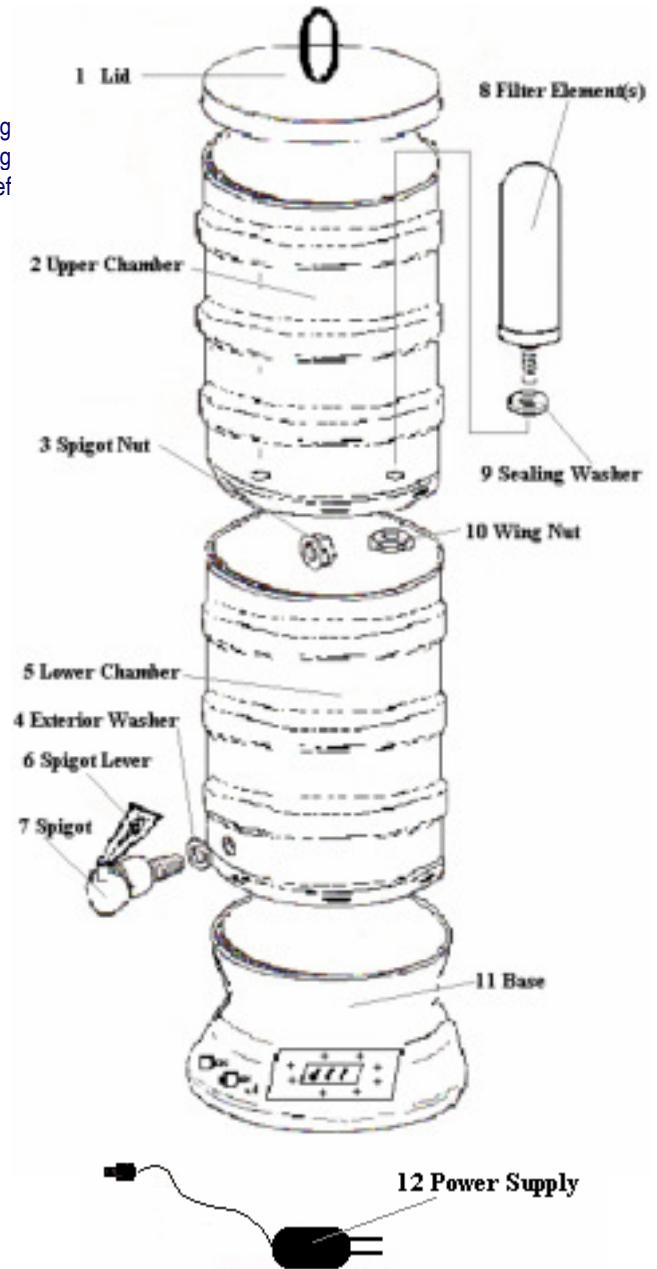
The ease of operation of this unit combined with a proven effectiveness at eliminating waterborne diseases and contaminants has led to **Berkey®** water purification elements being specified for field operations by many of the world's major aid and emergency relief organizations.

### CONTENTS:

- 1-Lid
- 1- Upper Chamber
- 1- Lower Chamber
- 1- Base
- 1- Spigot, nut and two washers
- 2- Purification Elements, wing nuts and washers & priming button
- 1- AC adapter (with LED base option)
- 1- Instruction sheet

### ASSEMBLY INSTRUCTIONS:

1. Cleanliness is important. Wash hands and system (*do not wash elements*) with dish soap before proceeding to assure that contamination of the components does not take place during assembly.
2. Remove the purification elements and parts from their protective packaging, checking each item against the above list.
3. Prime **Black Berkey®** purification elements (*see reverse side of Black Berkey® element instruction sheet*).
4. Place the large sealing washer (9) over the threaded stem of the element (8) (*Washer rests on inside bottom of upper chamber (2)*).
5. Place element stem into the hole in the base of the upper chamber (2).
6. Secure element in the chamber base by screwing the wing nut (10) onto the threaded mount. Repeat #3 & #4 until all elements have been installed. **Note: Tighten moderately, do not over-tighten wing nut.**
7. Place the exterior washer (4) over the threads of spigot (7). Insert threaded stem of spigot through hole in the side of the lower chamber (5) insert internal washer over threads and secure it in place with the spigot nut (3). Tighten securely by hand only. *Hint: hold nut in place and gently turn spigot until tight then rotate spigot until handle is facing upward.*
8. Turn lower chamber upside down on a counter or other flat surface and place base (11) onto bottom of lower chamber with large opening facing downward. **Align seams on lower chamber and base, slip nipples on left side of lower chamber under lip of base opening and apply downward pressure onto right side of base with a slight twisting motion until base snaps onto lower chamber**
9. Turn upper chamber upside down on a counter or other flat surface with opening facing downward. Place connected lower chamber and base onto bottom of upper chamber, opening facing downward. **Align seams on lower and upper chambers, slip nipples on left side of upper chamber under lip of lower chamber opening and apply downward pressure onto right side of upper chamber with a slight twisting motion until upper chamber snaps onto lower chamber.**
10. Turn entire assembled system upright. You are now ready to begin operating your **Berkey Light™** water purifier. (*Note: With systems containing LED lamps, rotate base until switch is on opposite side of spigot*).
11. See back page for operational and maintenance instructions.



**NOTE: ALIGN SEAMS WHEN ATTACHING BASE AND CHAMBERS, SLIP LEFT NIPPLES UNDER LIP AND APPLY PRESSURE TO RIGHT SIDE.**





## **OPERATION:**

1. Prime **Black Berkey®** elements using priming button (tan colored) as per instruction sheet accompanying **Black Berkey®** purification elements. Do not discard priming button after purification elements have been primed. *NOTE: Before traveling to and/or using the system in an area without water pressure we recommend that the purification elements be primed using the priming button. If however, this is not possible and water pressure is not available to use the priming button method, the elements can be primed approximately 50-75% using the alternate method. This method can be found on our web site [www.berkeywater.com](http://www.berkeywater.com) under "Element Priming" in the FAQ's section.*
2. **LED base option:** Plug in AC adapter and **charge batteries for 24 hours before using LED lamp base.** Nickel cadmium (Ni-cad) batteries have a memory therefore it is important to fully charge them before use and it is beneficial to fully discharge them before they are again recharged. If electricity is available, the AC adapter or the internal rechargeable batteries can power the LED lamps. When power is not available, the **Berkey Battery Adapter™** (optional) provides an incredible two weeks of nighttime light from four small AA alkaline batteries and the **Berkey MP Solar™** Charger (optional) provides for an endless source of power.

**Note:** When lower chamber is partially filled, be cautious not to overfill upper chamber as this could cause lower chamber to overflow. For example if the lower chamber is 1/3 full the upper chamber can be refilled by 2/3rds, if the lower chamber is 1/2 full, the upper chamber can be refilled by 1/2, etc.

## **MAINTENANCE:**

Wash lower chamber once per month with soapy dishwater. In areas with hard water, calcium scale may build up on spigot and chambers after prolonged use. To remove, soak affected part(s) in vinegar or a 50-50% mix of vinegar and water for about 15 minutes. Then clean with soapy dishwater. After prolonged use the flow rate may decrease significantly. To speed up flow rate, scrub exterior of each purification elements with a stiff brush or ScotchBrite® pad

**SYSTEM TEST:** Your **Black Berkey®** purification elements are powerful enough to remove food coloring from water; this feature allows you to make sure your system is operating properly. Simply fill the upper chamber with water and add a tablespoon of food coloring per gallon capacity of your system. If the food coloring is removed entirely, your purification system is working properly. If not, check to make sure that the wing nuts on your elements are securely tightened, then re-run the test. We recommend this test be done upon first use then at six-month intervals.

**NOTES:** 1) If the system is left to stand for more than 3 days, it is recommended that any water left in the lower chamber be run to waste and the water purified during the first 1 minute should also be run to waste.

2) When installing purification elements for the first time or replacing used elements, it is important to prime and condition the new elements using the procedure found on the **Black Berkey®** instruction sheet.

3) Do not discard priming button after purification elements have been primed. Re-prime elements after cleaning and when elements have been allowed to dry for a prolonged period of time.

4) Each set of two purification elements will be effective for up to 6,000 gallons (approximately two years under normal use) in removing or reducing pathogenic bacteria, cysts and parasites, harmful or unwanted chemicals such as herbicides and pesticides, VOCs, SOCs, organic solvents, nitrates, nitrites and unhealthy minerals such as lead and mercury without removing the healthful and nutritional minerals that your body needs.

**Black Berkey®** purification elements are self-sterilizing, **do not boil.** Never wash purification elements with cleaning detergents or soap. Not intended for use with saltwater. While this system can efficiently purify pond, lake and river water always use the cleanest, clearest water whenever possible. As an additional precaution, if using a source of water that might contain extreme viral and bacteriological contamination, it is recommended that sixteen drops of plain bleach or iodine per gallon be added to treat the source water before purifying. This will kill minute pathogens such as viruses. The disinfectant will then be filtered from the treated water removing its odor, color and taste entirely. When the system is not used regularly, remove purification elements from system and allow to air dry. Store purification elements dry. Until first activated, purification elements can be stored indefinitely. Do not allow wet purification elements to freeze. Do not place the system or components in dishwasher or microwave oven. Do not run boiling water through the system.

### GENERAL WARRANTY INFORMATION

New Millennium Concepts, Ltd. warrants this product to be free from defects in materials and workmanship for a period of 6 months from date of purchase. **Black Berkey®** purification elements have a two-year prorated warranty calculated in six months intervals. New Millennium Concepts, Ltd. will replace or repair any product that it deems is not properly functioning during the stated warranty period. Relief under this warranty is limited to the replacement or repair of defective materials or workmanship only. New Millennium Concepts, Ltd. shall not be held liable for incidental or consequential damage to personal property from, but not limited to, a defective unit, improper use, abuse, accident, or neglect, etc. No warranty will apply to units which have been used for purposes not intended, which have been altered so as, in the manufacturer's judgment, to affect adversely its performance. This warranty is for the original retail purchaser only, and cannot be transferred. Repair or replacement of parts will be made upon delivery to manufacturer's plant or authorized service dealer at customer's expense. The laws of the State of Texas, USA, will govern any disputes regarding this warranty or claim made. This warranty, which is given expressly in lieu of all warranties, expressed or implied, or merchantability and fitness for a particular purpose, constitutes the only warranty made by New Millennium Concepts, Ltd.