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› LifeStraw Peak Series Gravity Water Purifier System Instruction Manual

LifeStraw LSPSPU8BWW

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INTRODUCTION

The LifeStraw Peak Series Gravity Water Purifier is a portable, high-capacity water purification system designed for outdoor activities, emergency preparedness, and travel. It effectively removes viruses, bacteria, parasites, and microplastics from water sources, providing safe drinking water. This system operates without the need for pumping or external energy, utilizing gravity for a flow rate of 30 liters per hour.

Key features include an 8-liter dirty water bag, an ultrafilter membrane with a lifetime capacity of 18,000 liters, and a custom backwash syringe for maintenance. The system is constructed from BPA-Free materials.

COMPONENTS OVERVIEW

The LifeStraw Peak Series Gravity Water Purifier System includes the following main components:

- 8-Liter Dirty Water Bag with leakproof cap
- Ultrafilter Membrane Purifier
- Hose with quick connectors
- Custom Backwash Syringe
- Hang Strap with Carabiner

FEATURES



Figure 1: Diagram illustrating the main features and components of the LifeStraw Peak Series Gravity Water Purifier System.

SETUP INSTRUCTIONS

- Unpack Components:** Remove all items from the packaging and ensure all components listed in the Components Overview section are present.
- Connect Filter to Hose:** Attach the ultrafilter membrane purifier to one end of the hose. Ensure a secure connection.
- Connect Hose to Bag:** Attach the other end of the hose to the outlet port of the 8-liter dirty water bag. The bag features a leakproof cap.
- Prepare for Filling:** Ensure the twist on-off mechanism on the filter is in the 'off' position to prevent water from flowing out prematurely.



Figure 2: Filling the 8-liter dirty water bag from a natural water source.

OPERATING INSTRUCTIONS

1. **Fill Dirty Water Bag:** Open the top of the 8-liter bag and fill it with untreated water from your source. Securely close the bag.
2. **Hang the Bag:** Use the provided hang strap and carabiner to suspend the filled dirty water bag from a sturdy object, such as a tree branch, at a height above your collection container. Ensure the filter and hose hang freely.
3. **Collect Purified Water:** Place a clean container (e.g., bottle, cup) beneath the filter's outlet. Turn the twist on-off mechanism on the filter to the 'on' position. Gravity will draw water through the filter, and purified water will flow into your container.
4. **Monitor Flow:** The system has a flow rate of 30 liters per hour. If the flow rate decreases significantly, refer to the Maintenance section for backwashing instructions.
5. **After Use:** Once you have collected sufficient water, turn the twist on-off mechanism to the 'off' position.



Figure 3: The LifeStraw Peak Series Gravity Water Purifier in operation, demonstrating gravity-fed filtration.



Figure 4: Close-up view of purified water being collected from the filter into a bottle.

MAINTENANCE

Regular maintenance is crucial to ensure the longevity and effectiveness of your LifeStraw Peak Series Gravity Water Purifier.

Backwashing the Filter

Backwashing helps to clear trapped particles from the filter membrane, restoring flow rate. It should be performed regularly, especially if the flow rate decreases.

1. **Disconnect Filter:** Detach the ultrafilter membrane purifier from the hose.
2. **Prepare Syringe:** Fill the custom backwash syringe with clean, purified water.
3. **Backwash:** Attach the syringe to the outlet end of the filter (the end where clean water exits). Firmly push the plunger to force clean water back through the filter. Repeat this process several times until the water expelled from the dirty water inlet appears clear.
4. **Rinse:** After backwashing, rinse the exterior of the filter with clean water.

Storage

After each use, especially before long-term storage:

- Perform a thorough backwash.
- Allow the filter to air dry completely.
- Store all components in a cool, dry place, away from direct sunlight.

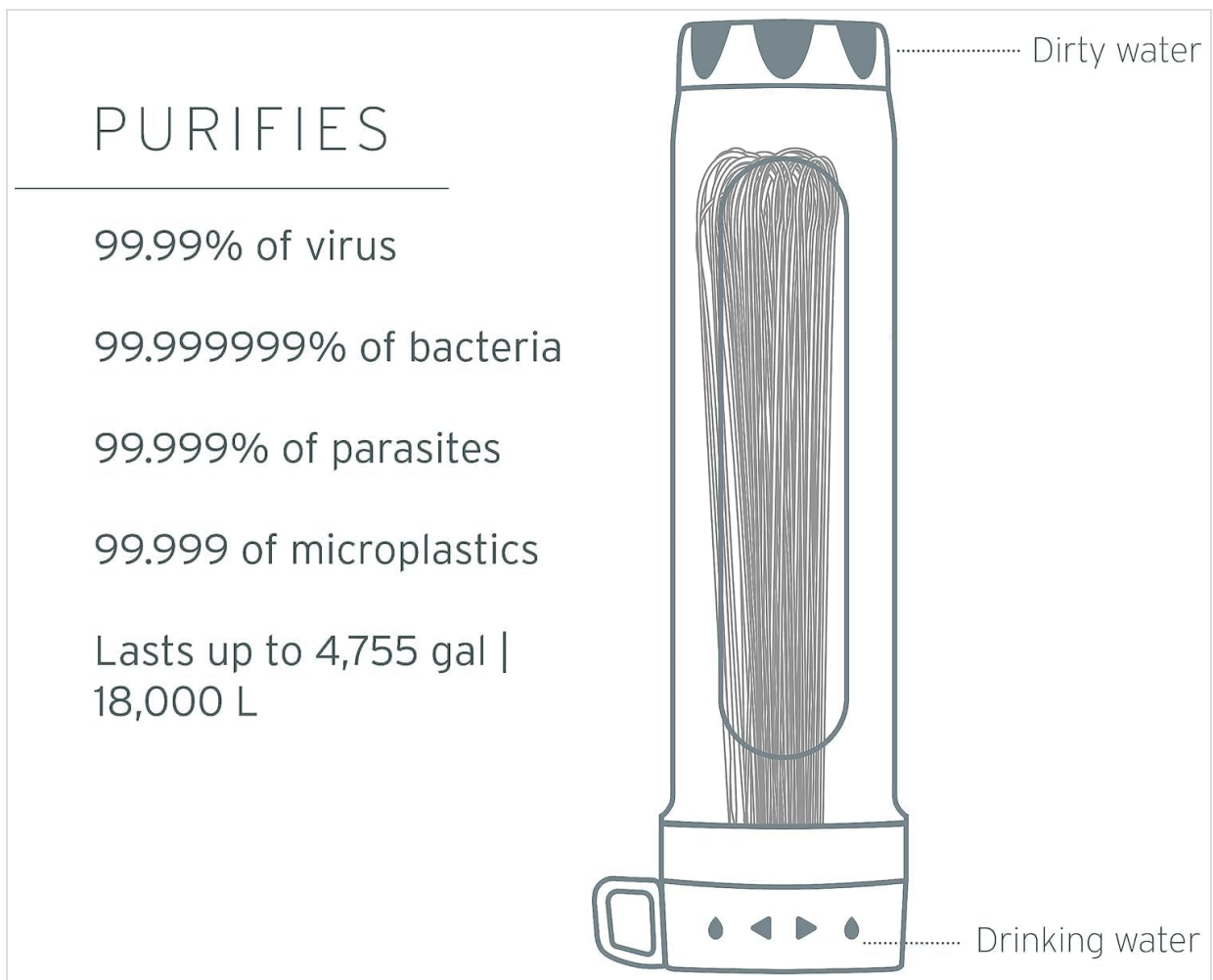


Figure 5: Internal view of the ultrafilter membrane, highlighting the purification mechanism.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Slow or No Water Flow	Filter membrane is clogged with sediment or debris.	Perform backwashing using the custom syringe as described in the Maintenance section. Ensure the dirty water bag is elevated sufficiently.
Water Leaks from Connections	Connections are not secure or O-rings are damaged.	Ensure all hose and filter connections are tightened properly. Inspect O-rings for damage and replace if necessary.
Water Tastes Unusual	Filter may be new (initial taste) or water source has high mineral content.	Flush the filter with a few liters of water before first use. The filter removes biological contaminants, not chemical tastes or high mineral content.

PRODUCT SPECIFICATIONS

Feature	Detail
Model Name	Peak Series Gravity Filter System

Feature	Detail
Model Number	LSPSPU8BWW
Purification Method	Hollow Fiber Membrane, Ultra Filtration
Removes	99.99% Viruses, 99.999999% Bacteria, 99.999% Parasites, 99.999% Microplastics
Filter Lifetime Capacity	18,000 Liters (4,755 Gallons)
Maximum Flow Rate	30 Liters Per Hour
Dirty Water Bag Capacity	8 Liters
Material	Plastic (BPA-Free)
Item Weight	750 Grams
Product Dimensions (L x W x H)	18" x 15" x 27" (approximate, assembled)
Installation Type	Portable/Countertop
Power Source	Manual Winding (Gravity)

WARRANTY INFORMATION

This LifeStraw product is covered by a Manufacturer Warranty. For specific details regarding the terms, conditions, and duration of your warranty, please refer to the documentation included with your purchase or visit the official LifeStraw website.

SUPPORT

For technical assistance, troubleshooting beyond this manual, or inquiries about replacement parts, please contact LifeStraw customer support. You can typically find contact information on the official LifeStraw website or through the retailer where the product was purchased.

No official product videos were found in the provided data for embedding in this manual.