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4Patriots Sun Kettle

4Patriots Sun Kettle Portable Solar Water Heater User Manual

Model: Sun Kettle

1. Introduction

The 4Patriots Sun Kettle is a portable, solar-powered water heater designed for outdoor enthusiasts, campers, hikers, and for emergency preparedness. It utilizes the sun's energy to heat water up to boiling point without the need for gas, electricity, or fuel, making it an ideal solution for off-grid hot water needs.

Key Features:

- **Solar-Powered Heating:** Heats water to 212°F (100°C) using direct sunlight.
- **Portable & Lightweight:** Weighs approximately 2.65 lbs, easy to carry in a backpack.
- **Capacity:** Holds up to 16.9 fluid ounces (0.5 liters) of water.
- **Durable Construction:** Made with ABS plastic and shatter-resistant tempered glass.
- **Fuel-Free Operation:** Requires no gas, electricity, or other fuels, producing no smoke.



Image 1.1: The 4Patriots Sun Kettle in its closed, portable state.

2. Safety Information

Please read and understand all safety instructions before using the 4Patriots Sun Kettle. Failure to follow these instructions may result in injury or damage to the product.

- **Hot Surfaces:** The glass tube and contents will become extremely hot. Always handle with caution and use protective gear if necessary.
- **Steam Release:** When opening the cap after heating, steam will be released. Keep your face and hands away from the opening to avoid burns.
- **Children and Pets:** Keep the Sun Kettle out of reach of children and pets, especially when in use or hot.
- **Overfilling:** Do not overfill the Sun Kettle beyond its maximum capacity (16.9 fl oz) to prevent spillage of hot liquids.
- **Damage:** Do not use the Sun Kettle if the glass tube is cracked or damaged. Contact customer support for assistance.
- **Intended Use:** Use only for heating water or appropriate food items. Do not use for flammable liquids or other

unintended purposes.

3. Package Contents

Upon opening your 4Patriots Sun Kettle package, please ensure all components are present and undamaged:

- 1 x 4Patriots Sun Kettle Unit

If any items are missing or damaged, please contact 4Patriots customer support immediately.

4. Setup

Follow these steps to prepare your 4Patriots Sun Kettle for use:

1. **Unpack:** Carefully remove the Sun Kettle from its packaging.
2. **Open Reflective Panels:** Gently pull open the two reflective panels on either side of the main body. These panels will lock into place, forming a parabolic shape to concentrate sunlight onto the central glass tube.
3. **Fill with Liquid:** Unscrew the top cap. Carefully pour water or other desired liquid into the glass tube, ensuring not to exceed the 16.9 fl oz capacity. Do not fill past the neck of the tube.
4. **Secure Cap:** Screw the top cap back on tightly to prevent leaks and retain heat.



Image 4.1: The Sun Kettle with its reflective panels extended, ready for use.

Your browser does not support the video tag.

Video 4.1: Official 4Patriots guide on how to set up, cook with, and clean your Solar Sun Kettle.

5. Operating Instructions

Once set up, operating your Sun Kettle is straightforward:

1. **Positioning:** Place the Sun Kettle in an area with direct sunlight. Angle the unit so that the reflective panels are fully exposed to the sun, and the shadow cast by the unit is directly behind it. This ensures maximum solar energy collection.
2. **Heating Time:** The time required to heat water to boiling point (212°F / 100°C) is approximately 45 minutes. This can vary based on factors such as direct sunlight intensity, ambient temperature, and altitude.
3. **Checking Temperature:** To check if the liquid is hot, carefully unscrew the cap. Be aware of steam escaping. If not hot enough, re-secure the cap and reposition the unit in the sun.

4. **Serving:** Once the desired temperature is reached, carefully pour the hot liquid into a cup or container. The Sun Kettle can also be used as a thermos to keep liquids warm for an extended period by closing the reflective panels and securing the cap.



Image 5.1: Pouring hot water from the Sun Kettle.



Image 5.2: The Sun Kettle can also be used to cook small food items like eggs.



Image 5.3: The Sun Kettle doubles as a thermos to keep drinks warm.

6. Maintenance and Cleaning

Proper maintenance and cleaning will ensure the longevity and efficiency of your 4Patriots Sun Kettle:

1. **Interior Cleaning:** After each use, allow the unit to cool completely. Unscrew the cap and carefully clean the inside of the glass tube using a bottle brush and mild dish soap. Rinse thoroughly with clean water until all soap residue is removed.
2. **Exterior Cleaning:** Wipe the exterior plastic parts with a damp cloth. For stubborn stains, use a mild soap solution and then wipe clean with a damp cloth.
3. **Reflective Panels:** Gently wipe the reflective panels with a soft, dry, lint-free cloth. Avoid abrasive cleaners or materials that could scratch the reflective surface, as this can reduce heating efficiency.
4. **Drying:** Ensure all parts are completely dry before reassembling and storing the unit.
5. **Storage:** Store the Sun Kettle in a cool, dry place, away from direct sunlight when not in use. Keep the reflective panels closed for protection during storage.

Your browser does not support the video tag.

Video 6.1: Official 4Patriots guide on how to set up, cook with, and clean your Solar Sun Kettle.

7. Troubleshooting

If you encounter issues with your 4Patriots Sun Kettle, refer to the following troubleshooting guide:

Problem: Water is not heating sufficiently or takes too long.

- **Solution 1:** Ensure the Sun Kettle is placed in direct sunlight. Partial shade or cloudy conditions will significantly reduce heating efficiency.
- **Solution 2:** Verify that the reflective panels are fully open, clean, and properly angled towards the sun. Any dirt or smudges on the reflective surface can hinder performance.
- **Solution 3:** Check if the unit is overfilled. Exceeding the 16.9 fl oz capacity will increase heating time.
- **Solution 4:** Consider ambient temperature. In colder environments, heating will naturally take longer.

Problem: The Sun Kettle is leaking.

- **Solution 1:** Ensure the top cap is securely tightened.
- **Solution 2:** Inspect the glass tube and seals for any visible cracks, damage, or wear. If damage is found, discontinue use and contact customer support.

If these solutions do not resolve the issue, please contact 4Patriots customer support for further assistance.

8. Specifications

Brand	4Patriots
Model	Sun Kettle
Capacity	16.9 fluid ounces (0.5 liters)
Weight	2.65 lbs
Power Source	Solar Powered
Maximum Temperature	212°F (100°C)
Materials	Durable ABS Plastic, Shatter-resistant Tempered Glass
Special Features	Portable, Lightweight, Smoke-Free Boiling
UPC	810026141690

9. Warranty and Support

Warranty Information:

The 4Patriots Sun Kettle comes with a **1-Year Manufacturer's Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.

Please retain your proof of purchase for warranty claims.

Customer Support:

For warranty claims, technical assistance, or any questions regarding your 4Patriots Sun Kettle, please refer to the contact information provided with your product packaging or visit the official 4Patriots website.

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