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Katadyn Survivor 06-LS

Katadyn Survivor 06-LS-RES Hand Powered Desalinator

Model: Survivor 06-LS (Part No. 80121278)
Brand: Katadyn

Introduction

The Katadyn Survivor 06-LS-RES is a compact, hand-operated desalinator designed for emergency water purification in marine environments, life rafts, and survival kits. It utilizes reverse osmosis technology to convert salty, brackish, and freshwater into potable drinking water, providing a reliable solution for hydration when conventional sources are unavailable.

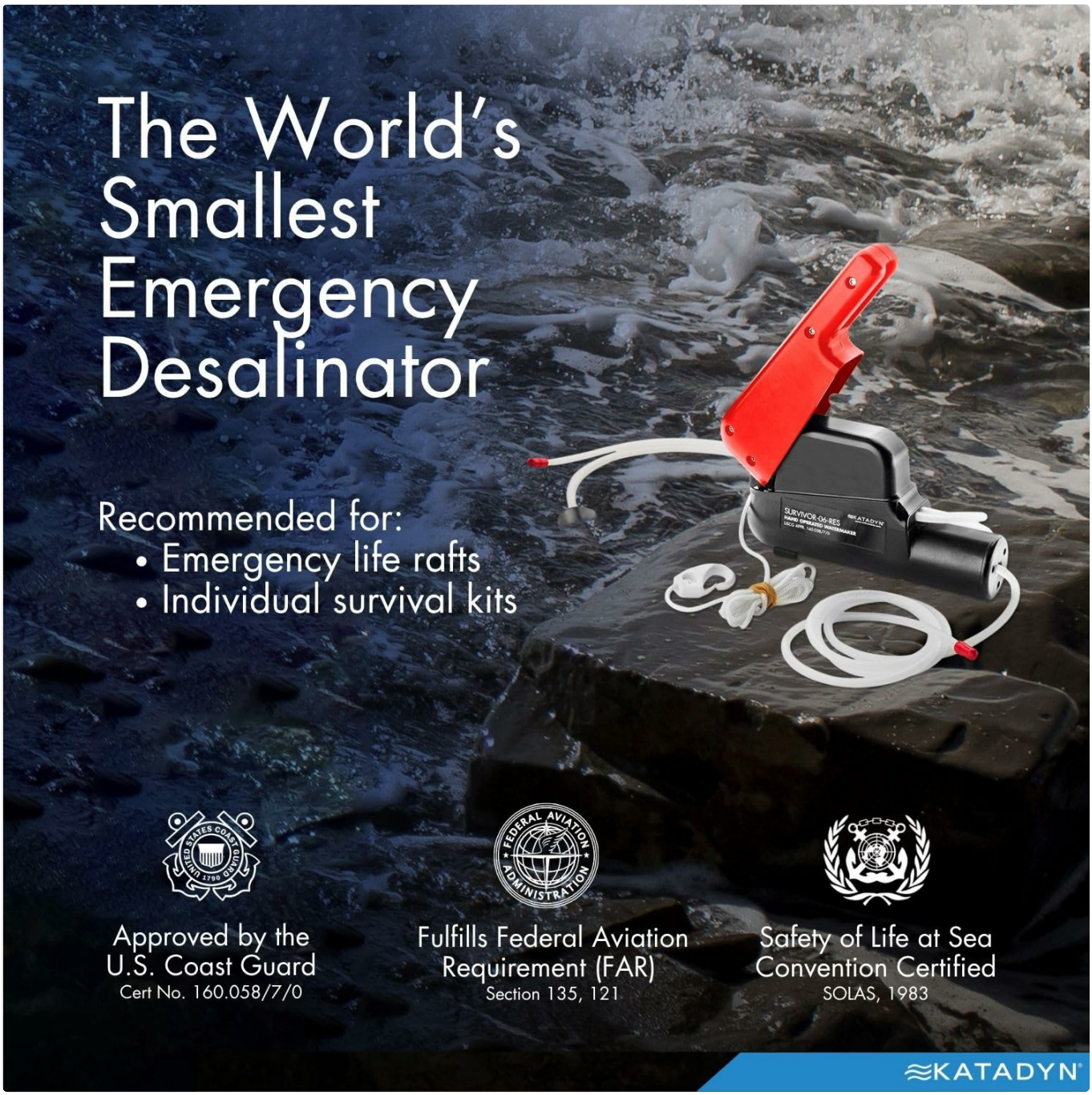

Figure 1: The Katadyn Survivor 06-LS-RES, highlighting its compact size and suitability for emergency use. It is approved by the U.S. Coast Guard, fulfills Federal Aviation Regulation (FAR) Section 135.121, and complies with Safety of Life at Sea Convention (SOLAS), 1983.

Key Features

- **World's Smallest Desalinator:** Compact and lightweight design, ideal for emergency kits and life rafts, serving 1-6 people.
- **High Output:** Capable of producing 0.24 gallons (0.9 liters) of drinking water per hour, with an optimal pump rate of 40 strokes per minute.
- **Extreme Durability:** Constructed with corrosion-resistant stainless steel, composite materials, and plastics compliant with international food contact regulations, ensuring resilience in harsh environments.
- **Energy-Efficient Technology:** Features a patented high-pressure reverse osmosis energy recovery pump, which reduces pumping effort and increases purified water output.
- **Manual Operation:** Designed for emergencies, requiring no electricity or external power source, operating efficiently in temperatures from 36°F (2°C) to 113°F (45°C).



Figure 2: Performance overview of the desalinator, highlighting its ability to process fresh, brackish, and saltwater, its 5-year lifetime, and its output capacity.

Components

The Katadyn Survivor 06-LS-RES desalinator includes the following main components:

- Main Unit with Hand Pump
- Polyamide Filter Membrane (internal)
- Input Hose with Polyester Pre-filter
- Output Hose (for fresh water)
- Safety Line Clip
- Illustrated Instruction Manual (in sealed bag)



Figure 3: Key components of the desalinator, including the rugged body, polyamide filter membrane, polyester pre-filter, and safety line clip.

Setup and Operation

Follow these steps for proper setup and operation of your Katadyn Survivor 06-LS-RES desalinator:

1. **Attach Safety Line:** Securely attach the safety line clip to your boat or life raft to prevent loss of the unit.
2. **Submerge Strainer:** Fully submerge the input hose strainer (with the polyester pre-filter) in seawater. Ensure it is clear of debris.
3. **Position Output Hose:** Position the smaller freshwater output hose so that any initial water coming out drains overboard. This is important for flushing the system.
4. **Grip the Unit:** Place one hand under the cap and the other over the end of the handle for a firm grip.
5. **Begin Pumping:** Pump the handle up and down at approximately 40 strokes per minute. Maintain a steady rhythm.
6. **Check for Leakage:** If leakage occurs, slow down the pump rate.
7. **Initial Flushing:** Once water drips from the freshwater hose, continue pumping at least 80 strokes while rejecting the

water overboard. This clears the system of any residual salt or impurities from storage.

8. **Collect Drinking Water:** After the initial 80 strokes, insert the freshwater hose into a storage container or directly into your mouth for drinking.



Figure 4: Step-by-step guide for operating the desalinator, from initial setup to collecting purified water.

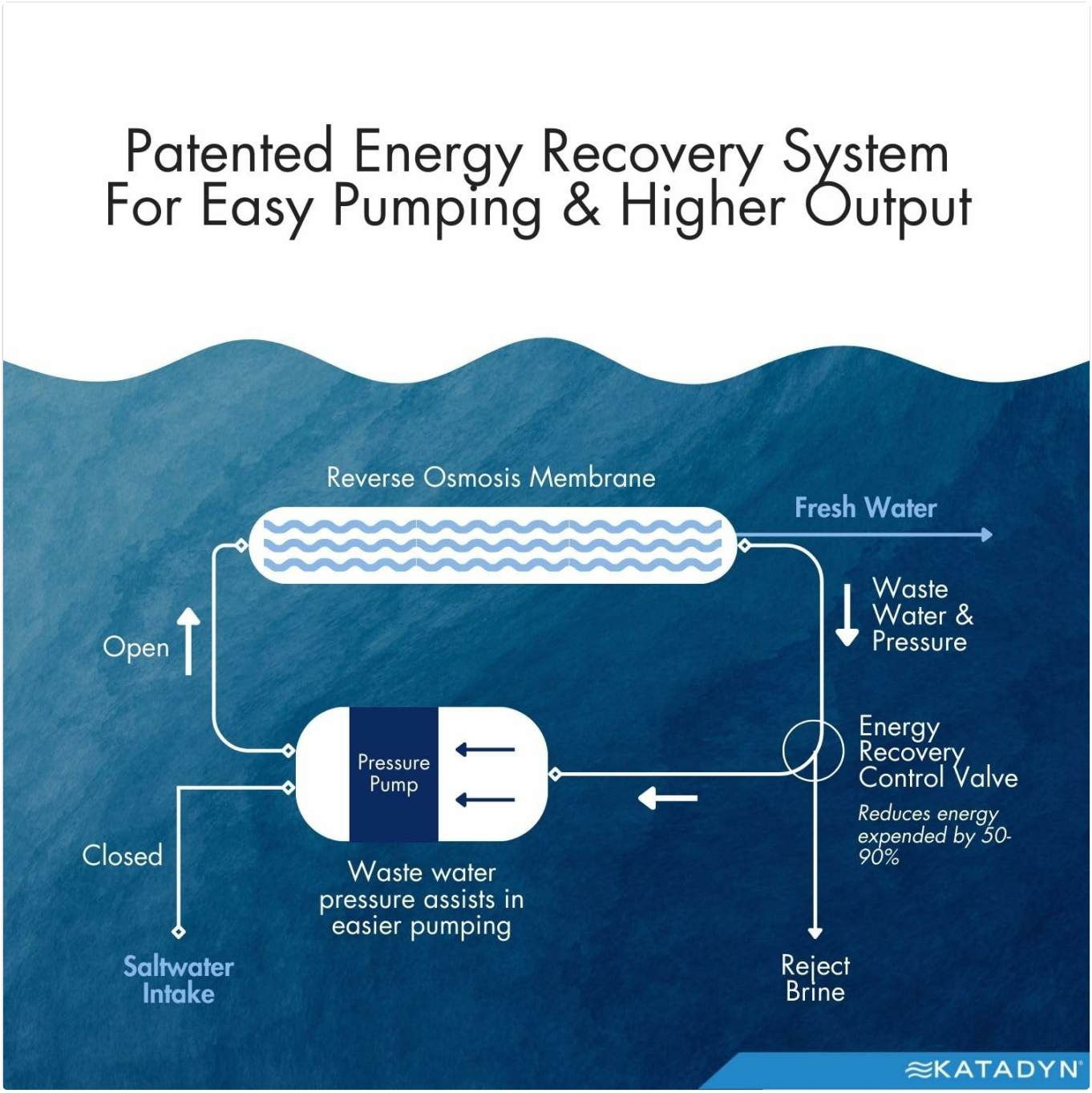

Figure 5: Illustration of the patented energy recovery system, which enhances pumping efficiency and output by recirculating pressurized reject water.

Maintenance and Storage

Proper maintenance and storage are crucial for the longevity and performance of your desalinator.

After Each Use:

- **Flush with Fresh Water:** After desalinating seawater, always flush the unit with fresh water (e.g., tap water or collected desalinated water) to remove salt crystals from the membrane and internal components. Pump fresh water through the unit for several minutes.
- **Clean Pre-filter:** Inspect and clean the polyester pre-filter regularly to ensure optimal flow and prevent clogging.

Long-Term Storage:

- **Preservation Solution:** For storage longer than a few days, it is recommended to use a preservation solution (e.g., Katadyn Membrane Preserver) to prevent biological growth on the membrane. Follow the instructions provided with the

preservation solution.

- **Temperature Range:** Store the unit in temperatures ranging from 14°F (-10°C) to 113°F (45°C). Avoid freezing temperatures if the unit contains water.
- **Circular Design:** Katadyn is committed to a circular product design. After its lifetime, the Survivor can be returned to Katadyn for reuse of suitable parts and recycling of the remainder, minimizing waste. The product has a 5-year lifetime/exchange interval.

Troubleshooting

If you encounter issues with your Katadyn Survivor 06-LS-RES, consider the following common problems and solutions:

- **Low Water Output:**
  - Ensure the pre-filter is clean and not clogged.
  - Verify the input hose is fully submerged and free of kinks.
  - Increase pumping speed and consistency.
  - The membrane may be fouled; perform a thorough flush or consider a membrane cleaning solution if flushing is insufficient.
- **Salty Taste in Purified Water:**
  - Ensure the initial 80 strokes (or more) were performed to flush the system adequately.
  - Check for leaks in the system that might allow raw water to mix with purified water.
  - The membrane may be damaged or at the end of its lifespan.
- **Difficulty Pumping:**
  - Ensure the unit is properly lubricated (refer to detailed manual for specific points).
  - Check for blockages in the input or output lines.
  - The energy recovery system might not be functioning optimally; ensure all connections are secure.

For persistent issues, refer to the detailed instruction manual included with your product or contact Katadyn customer support.

Specifications

Technical specifications for the Katadyn Survivor 06-LS-RES desalinator:

Specification	Value
Product Dimensions	9.1"L x 5.7"W x 2"H (23.1 x 14.5 x 5.1 cm)
Weight	2.3 lbs (1.04 kg)
Model Name	Survivor 06-LS
Item Model Number	80121278
Power Source	Manual Operation
Maximum Flow Rate	0.9 Liters Per Hour (0.24 Gallons Per Hour)
Average Salt Rejection	98.4% (minimum 97% at 34,000 ppm)
Operating Temperature Range	36°F (2°C) to 113°F (45°C)
Storage Temperature Range	14°F (-10°C) to 113°F (45°C)

Specification	Value
Supported Water TDS Level Maximum	5000 ppm
Lifetime/Exchange Interval	5 years



Figure 6: Dimensions and weight of the Katadyn Survivor 06-LS-RES, emphasizing its compact and lightweight design for portability.

Warranty and Support

The Katadyn Survivor 06-LS-RES is designed for a 5-year lifetime/exchange interval, reflecting its durable construction and the manufacturer's commitment to quality.

For technical support, inquiries, or assistance with your Katadyn product, please contact Katadyn's customer service. They offer support via Skype, phone, or email, with real technicians available to assist you.

For contact information, please refer to the official Katadyn website or the contact details provided in the product packaging.

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This manual is for informational purposes only. Always refer to the official product manual for complete safety and operating instructions.

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