

KATADYN SURVIVOR 06-LS RES - The world's smallest desalinator newly designed for circularity

PRODUCT CHARACTERISTICS

Technology: Reverse osmosis with patented high-pressure energy recovery pump

Salt Rejection: 98.4% in average (97% minimum at 34'000 ppm)
Desalination degree depends on factors such as water temperature and salinity.

Flow: 0.9 l/h \cong 21.6 l/day*
0.24 gal/h \cong 5.7 gal/day*

Pump Rate: 40 Strokes/min

Temperature: Operation: 2°C to 45°C / 36°F to 113°F
Storage: -10°C to 45°C / 14°F to 113°F**

Weight: 1.05 kg / 2.3 lbs

Dimensions: 23 x 14.5 x 5 cm / 9.1 x 5.7 x 2 in

Feed Water: Fresh, brackish or saltwater

Storage: 5 years lifetime / exchange interval***

Material: Stainless steel, composites and plastics in compliance with international food contact regulation.

Content: 1 unit compactly packed in sealed bag

Article No: 8021278

GTIN-13: 7612013212788



FACTS

- Hand-operated reverse osmosis watermaker for 1 - 6 people
- Optimum pump frequency: 40 pumps per minute
- Approved by the U.S. Coast Guard
- Prescribed equipment for the „Around-Along“ sailing regatta
- Newly designed for circularity and boosted sustainability***

SHORT PROFILE

The world 's smallest desalinator is approved to replace up to two-thirds of the water ration on board of life rafts. It offers an easy-to-use and reliable way to purify salty, brackish, and fresh water. Ideal for emergency preparedness at sea.

PRODUCT CHARACTERISTICS > BENEFITS

- The world's smallest desalinator > compact and lightweight
- Provides 0.9 l/h drinking water > ensures survival in emergency situations
- Hand-powered efficiency > off-grid autonomy with effortless pumping
- Military grade impact resistant materials > able in heavy duty missions
- Durable design > extremely reliable for 500h of use*

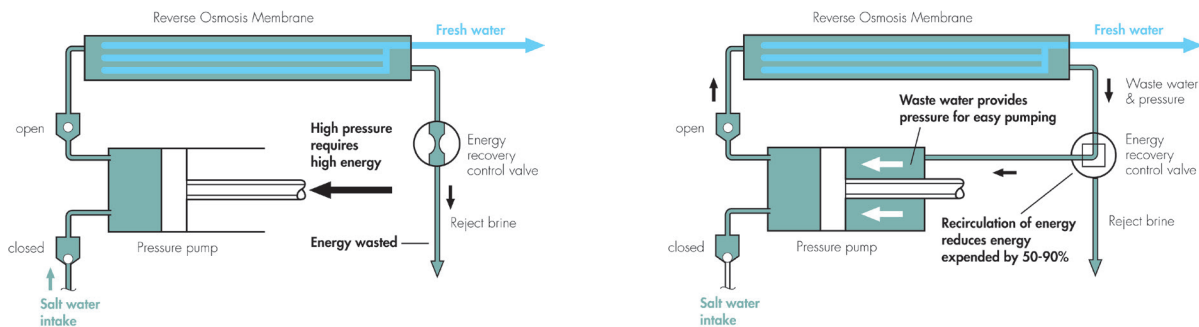
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REVERSE OSMOSIS

To desalinate seawater using reverse osmosis, the dissolved salts are filtered through a semipermeable membrane. Only 10% of the water is allowed to pass through the membrane, while the remaining 90% flows past it. This serves a dual purpose of continuously cleaning the membrane (self-cleaning effect) and carrying away the rejected salts. The semipermeable membrane's small pores ensure the production of extremely pure drinking water under high pressures (normally 55 bar) by blocking impurities, salts, and other contaminants. Reverse osmosis is a widely used technology worldwide, finding applications in various industries such as the semiconductor industry and medicine.

KATADYN'S PATENTED ENERGY RECOVERY SYSTEM

The Katadyn Energy Recovery system takes advantage of stored energy in the high-pressure reject water that is typically wasted in conventional reverse osmosis systems. The pressurized reject water is recirculated to the back side of the piston to aid the next stroke. This leads to higher energy efficiency and a more sustainable water purification process, as less external energy is needed to achieve freshwater.



APPROVALS

- Approved desalinator as defined in the 1983 conditions of the Safety of Life at Sea Convention (SOLAS)
- United States Coast Guard (USCG) certificate no. 160.058/7/0
- Federal Aviation Administration (FAA): fulfills Federal Aviation Requirement (FAR) Section 135, 121

DISCLAIMER

- * The maximum flow rate based on tests carried out on new membranes at 20°C / 68°F. The minimum measured output after 500-hour usage corresponds to 0.75 l/h (0.2 gal/h), while SOLAS require 0.5 l/h (0.13 gal/h) at 500-hour stage.
- ** Storage conditions comply with IMO MSC 81(70) for 8h temperature cycles of -30°C to 65°C / -22°F to 149°F packed in a life raft. Unit is not intended for long term storage at these temperature peaks.
- *** Product cycle has been modified such that the Survivor 06-RES is returned to Katadyn after a usage/storage period of 5 years and will be recycled.

Katadyn reserves the right to modify products

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