

KATADYN POWER SURVIVOR 80E* - One of the most efficient electric desalinators

PRODUCT CHARACTERISTICS

Technology: Reverse osmosis
 Desalination: 98.4% on average (96% minimum.
The rate depends on different influence factors such as pressure, throughput or the quality of water)
 Flow: Approx. 12.9 l/h +/- 15 %
 Weight: 22.2 kg (covered version) or 15.4 kg (modular version)
 Dimensions: 23.6 x 43.2 x 52.9 cm (covered version) or 15.2 x 35.6 x 40.6 cm (modular version)
 Current: 12 Volt DC / 5 amp
 24 Volt DC / 8 amp
 Guarantee: 3 years
 Material: Stainless steel, plastics.
 Membrane approved by the FDA (Food and Drug Administration)
 Article No.: xxxx PS 80E covered
 xxxx PS 80E modular
 * earlier PUR Power Survivor



FACTS

- Device for greatest convenience with unbeatable advantages (see Benefits)
- Compact and highly durable product which has been put to the test by, e.g., ocean sailors
- Available as 12V or 24V unit
- Pump and membrane are separate in the modular version. Makes installation easier
- Makes boat owners independent of water stations on the coast
- Covers entire daily water requirement (drinking, showering, cleaning etc) of 6 people. By the way: contrary to popular opinion, the water requirement is much less on board than on land

PRODUCT CHARACTERISTICS > BENEFITS

- Minimum and compact dimensions > does not waste a cm² of space, can be put anywhere
- 12.9 litres of water per hour > brings comfort on board and covers the entire daily water requirement of 6 people
- Not an oversized large system > fewer water standstill times, lower risk of germs reforming + higher useful life of membrane than with large systems
- High running smoothness > does not disturb the idyll of being at sea
- Supply of drinking water independent of location > saves water reserves and costs with a better water quality
- Very user-friendly design > simple to install, operate and maintain
- Does not require additional pump and no reverse cleaning systems
- Available as a covered version > even higher running smoothness and more attractive
- Tough design > 3-year guarantee

SHORT PROFILE
 A desalinator which covers all water requirements on board in an elegant and intelligent way. Ideal for 1 to 6 people or (sailing) boats up to 13 metres.

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REVERSE OSMOSIS

In reverse osmosis, part of the salt water is filtered through a semi-permeable membrane. Only 10% of the water passes through the filter membrane. The remaining 90% flows past the membrane and at the same time cleans the membrane (self-cleaning effect). The small size of the membrane pores ensures extremely pure drinking water, but makes extremely high pressure necessary - normally 55 bar.

Reverse osmosis is used - in this form or similar forms - worldwide to obtain drinking water, e.g. in the semi-conductor industry and in medicine.

UNIQUE ENERGY RECOVERY SYSTEM

High pressure means high implementation of energy. Unlike other desalinators, the pressure used on rejected water is not lost in the Survivor models. This pressure is returned to the pump via a junction in the outlet and generates a large proportion of the pressure for the next push of the pump. This means that the new pressure does not have to be created for each push of the pump. Result: less energy consumption and the possibility of using low-energy 12V motors.

CONDITIONS OF OPERATION

Battery with at least 60Ah/12 V. The Power Survivor can be connected to existing sea valves. Appropriate adapters are supplied.

OPTIONS FOR POWER SURVIVOR

Prefilter kit

For waters with high levels of suspended matter, e.g. in shallow anchorage, we would recommend you use an additional prefilter. This additional filter is finer (5 microns - 1 micron = 0.001 mm) than the standard filter (30 microns) and is placed after it. A food water pump (12V/0.8 A/h) is also provided. This pump compensates for the loss through the second filter and increases water production. We would also recommend the prefilter kit when the Power Survivor is not installed under the water line and when it is in constant use to increase the intervals between servicing.

Prefilter kit



Service kit



Prefilter & service kit



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