

## KATADYN POWERSURVIVOR 40E\* - The world's smallest electrical desalinator

### PRODUCT CHARACTERISTICS

Technology:	Reverse osmosis
Salt Rejection:	98.4% on average (96% minimum. <i>The desalination degree depends on different influence factors such as pressure, throughput and the quality of water)</i>
Flow:	Approx. 5.6 l/h +/- 15 %
Weight:	11.3 kg
Dimensions:	15.2 x 44.5 x 40.5 cm
Current:	12 Volt DC / 4 amp 24 Volt DC / 3 amp
Guarantee:	3 years
Material:	Stainless steel, plastics. Membrane approved by the US FDA (Food and Drug Administration) Authority
Article No.:	8013438 12 Volt DC 8013439 24 Volt DC * Earlier PUR Survivor



### FACTS

- Device for greatest convenience with unbeatable advantages (see Benefits)
- Can be operated both electrically and manually
- Ideal for boats up to approx. 13 metres or one to four people
- Compact and highly durable product which has been put to the test by, e.g., ocean sailors
- Available as 12V or 24V unit
- Optimum pump frequency in manual operation: 30 pumps per minute
- Makes boat owners independent of water stations on the coast
- Covers entire daily water requirement (drinking, showering, cleaning etc) of 4 people at an operating time of 4 to 5 hours. 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 cm<sup>2</sup> of space, can be put anywhere
- 5.6 litres of water per hour > brings comfort on board and covers the entire daily water requirement of 4 people
- High energy efficiency > low current consumption
- Not an oversized large system > fewer water standstill times, lower risk of germs reforming + higher useful life of membrane than with large systems
- Can be operated manually > not dependent on electricity in an emergency
- High running smoothness > does not disturb the idyll of being at sea
- Supply of drinking water independent of location > saves water reserves and costs
- Tough design > 3-year guarantee
- Very user-friendly design > simple to install, operate and maintain
- Does not require additional pump and no reserve cleaning systems

#### SHORT PROFILE

A desalinator which covers all water requirements on board in an elegant and intelligent way. Ideal for 1 to 4 people or (sailing) boats up to 13 metres.

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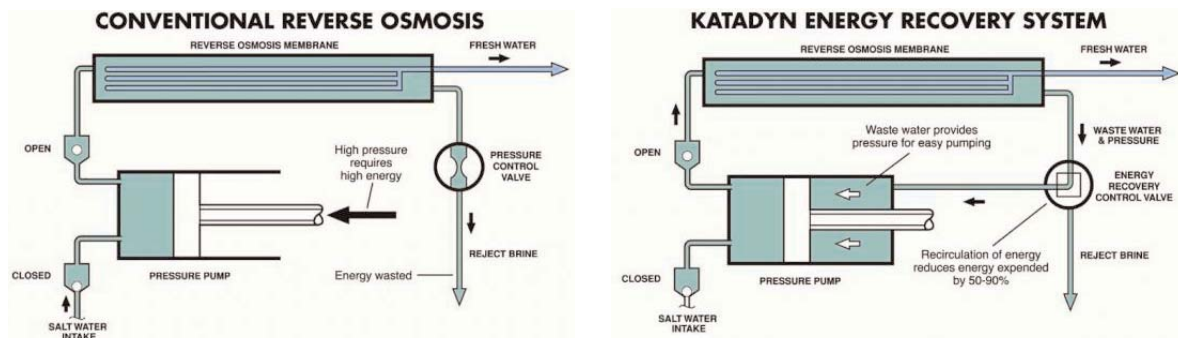
### REVERSE OSMOSIS

To remove dissolved salts from seawater with reverse osmosis, part of the salt water is filtered through a semipermeable membrane. Only 10% of the water passes through the membrane. The remaining 90% flow 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 extremely high pressures must be generated - normally 55 bar.

Reverse osmosis is used worldwide to obtain drinking water, e.g. in the semi-conductor industry and in 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. The pressurized reject water is recirculated to the back side of the piston to aid the next stroke. This energy is kept in the system, resulting in less work to achieve fresh water.



### 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

#### Silt Reduction 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 booster 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.



Silt Reduction Kit



Preventative  
Maintenance Kit



Extended Cruise Kit

### APPROVALS

CE certification for 12 Volt motors

Katadyn reserves the right to modify products

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