

SPECTRA POWERSURVIVOR 40E* - The world's smallest electric watermaker

PRODUCT CHARACTERISTICS

- Technology: Reverse osmosis
- Salt Rejection: 98.4% on average (96% minimum). The desalination degree depends on factors such as water temperature and salinity
- Flow: Approx. 5.7 l/h +/- 15%
- Weight: 11.3 kg
- Dimensions: 15.2 H x 44.5 L x 40.5 B 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
- Approvals: CE certification for 12 Volt motors



* Earlier Katadyn PowerSurvivor 40E

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 = almost 3 liters in 30 minutes.
- Makes boat owners independent of water stations on the coast.
- Covers entire daily water requirement (drinking, cleaning etc.) of 4 people at an operating time of 4 to 5 hours. By the way: 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, produces 5.7 liters 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 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
- Runs smoothly > does not disturb the enjoyment of being at sea
- Tough design > 3 year guarantee
- Does not require additional pump or reserve cleaning systems
- Very user-friendly design > simple to install, operate and maintain
- Grease-lubricated eccentric drive > no risk of leakage; easy maintenance for user. Oil-lubricated eccentric drives can be retrofitted easily with the new drive.

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 meters.

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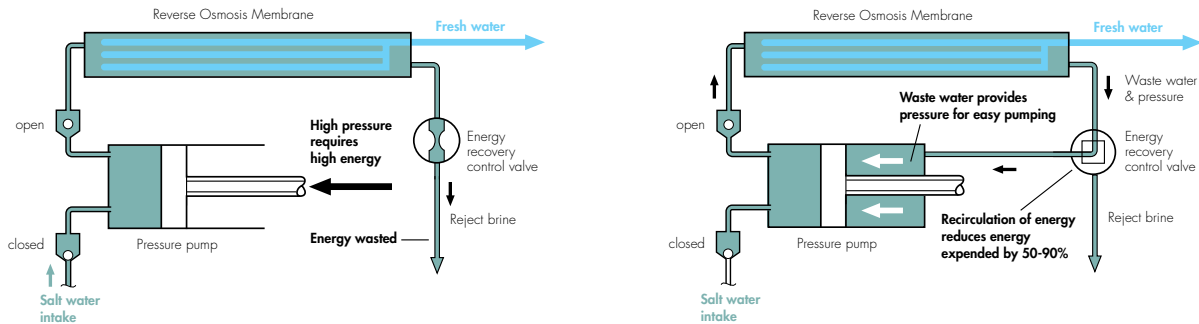
REVERSE OSMOSIS

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.

SPECTRA'S PATENTED ENERGY RECOVERY SYSTEM

The Spectra 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 PowerSurvivor can be connected to existing sea valves. Appropriate adapters are supplied.

OPTIONS FOR POWERSURVIVOR

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 PowerSurvivor 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

Spectra reserves the right to modify products

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