

HEM Water Softener Type K50

The main benefit of installing a water softener on a yacht is the lowered risk of calcium build-up in water heaters, heat exchangers, piping and hydrophore tanks.

The removal of hardness (calcium and magnesium) is done through the exchange of sodium ions preventing the production of mineral-hungry water, which can be detrimental to health and equipment.

The HEM K50 Water Softener has a built-in water meter, which enables it to operate "on demand" based on actual water usage. Thus the regeneration cycle takes place automatically, as and when required, without interruption or inconvenience.

The twin tank design of a HEM K50 Water Softener means that when one tank needs to regenerate, service automatically switches to the other tank. This ensures a continuous supply of soft water 24 hours a day, even during the regeneration process.

The actual regeneration process of the HEM K50 Water Softener is different from other systems. It uses a process called countercurrent regeneration (instead of the old fashioned, 4 or 5 cycle regeneration), which has long been recognised as the optimum process for regenerating a resin bed. This process reduces salt and water usage and regenerates the resin beads more effectively.

The HEM Water K50 Softener is hydraulically powered, not electrically. Consequently there is no wiring to connect, no buttons to push or timers to set, or any adjustments to make. You really do not need to do anything special to operate your softener - it runs itself.



■ ION EXCHANGE

Ion exchange prevents the production of corrosive, mineral-hungry soft water.

■ ON DEMAND OPERATION

Automatically adjusts to actual water usage.

Continuous water supply, even during regeneration, due to twin bottle design.

■ HIGHLY EFFICIENT REGENERATION

Countercurrent regeneration reduces salt and water usage.

■ HYDRAULIC ENERGY

Nothing to plug in, no electrical connection or timers – it runs itself!

Product Specifications

The system in standard configuration is designed to handle hardness levels of up to 35 French degrees of Hardness.

Dimensions:	See dimensions drawing
Certified flow rate (1bar):	1.36 m ³ /h - 22.7 lpm
Peak flow rate (2bar):	2.7 m ³ /h - 45.4 lpm
Resin per tank:	11 L
Max pressure:	8.6 bar
Minimum pressure:	1.5 bar (regulated)
Regeneration time:	11 minutes
Water used during regeneration:	26.5 litres
Back wash flow:	5.3 litres / min
Salt capacity:	23 kg
Pipe connections in/out:	1" Female
Operating temperature:	2 - 50°C
Power consumption:	none

Note: The shore pressure should be at least 3 bar at 1m³/h for the system to operate correctly.

Dimensions

