

# HEM Silver & Copper Ions (SCI) Steriliser

The HEM SCI Steriliser utilises state-of-the-art ionisation technology and effectively supersedes UV systems.

UV-based units are not accepted as a sole means of sterilisation due to their inability to leave a residual sterilising effect in the water system. The main advantage of the HEM Silver & Copper Ions Steriliser is that the copper ions will break down any bio-film present in the distribution piping which prevents silver ions from neutralising trapped bacteria.

However, copper sterilisation is not necessary if your system is fitted with copper piping and should not be used with aluminium fresh water tanks.

If a charcoal filter is installed at the outlet after the tanks a lot of the silver ions will be retained in this filter and the ship's pipework will not be adequately protected. Therefore the system is designed with two sets of electrodes, one "Primary" for the pipe going to the tank, and one "Secondary" for boosting the level of ions after the charcoal filter. If a charcoal filter is not installed, only the primary system is required.

HEM offers primary dosing as well as primary and secondary dosing with the HEM SCI Steriliser.

## SCI-5P

- Primary silver and copper dosing
- Capacity 5 m<sup>3</sup>/h
- Copper dosing to breakdown bio-film in piping and fresh water tank

## SCI-5P-5S

- Primary and secondary silver and copper dosing
- Dosing post charcoal filter
- Copper dosing breaks down bio-film in distribution piping
- Residual sterilising effect in distribution piping

