

LEGIONELLA

How safe is your drinking water on board?

Water lives and makes living. Water is refuelled on many places, usually in various qualities, which could lead to many problems!

For instance, think of the Legionella bacteria. Breman Shipping Installation B.V. possesses the know-how, water processes and treatment techniques to make sure that you as ship owner and your fellow crew members can use water in a safe manner.



Operations that Breman Shipping Installation performs are, among others:

- Taking water samples
- Risk inventory & evaluations
- Disinfection of the entire water installation
- System adjustments and supplying and installing UV water purification systems.



Breman Shipping Installation b.v.

UV water purification systems | Breman Shipping Installation has a number of UV water purifications systems with an average flow capacity ranging from 1100 litres per hour to 9100 litres per hour. This makes the systems extremely suitable for use in river crafts, sea-going vessels as well as passenger ships.

UV reactor | The BSI-11 through BSI-91 reactors have been manufactured from high-grade polished RVS 316L. The operation of the UV-C radiation (with a light source that provides a radiation of 254 nm) is based on the destruction of the DNA structure of the micro-organisms such as bacteria (among which Legionella), viruses and tracks, by which multiplication of these organisms no longer occurs and the micro organism dies off by 99.999% percent. The UV light is situated centrally in a quartz protection tube, which makes replacing the lamp an easy task, without having to shutdown the water supply.

The connection on the reactor contains a special transparent ring, which lights up in blue when it is on, so the operation of the UV light can be visually assessed.

Ignition |

The ignition is accommodated in an aluminium housing that is assembled on top of the reactor. The semi-soft start ignition is by default fitted with an on/off switch including power indicator, hour reading, UV light status indicator and converter contact for the connection of an external alarm (buzzer) that can be installed at a surcharge.

Advantages |

- Reliable and efficient disinfection, fully automatic
- Use of high performance low pressure UV lights (max. 8000 burning hours)
- Assembly both horizontally as well as vertically
- Easy operation and maintenance
- Option: (among other things) an acoustic alarm (buzzer)

Filter set |

The two matching filter housings are by default fitted with a 20 micron sediment filter element and a 5 micron sediment filter element varying in length between 10" and 20" depending on each system. In these sediment filters, organic and solid particles are filtered out of the water. There is also an option to replace the first filter for a 5 micron active carbon filter element, which, by using active carbon, improves the water in terms of scent, taste and brightness.

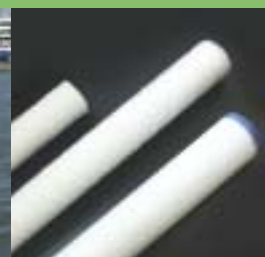
Warranty |

If it should happen that after taking a water sample (that has been acknowledged by STER), the drinking water does not meet the legal standards of the Drinking Water Resolution, the system will be taken back. This only applies if there is proof in writing that

the water pipes after the UV reactor and before the installation of the system have been disinfected and there are no apparent shortcomings to the water pipe system. The UV lamp may not be older than 8000 burning hours.

Liability |

The owner / shipping company / captain is liable at all times; Breman Shipping Installation B.V. cannot be held responsible if there are legionella bacteria present, as the requirements for resisting the legionella bacteria do not always have to be executed by Breman Shipping Installation (in conjunction with no order of the client to perform possible measures).



Technical specifications |

	Flow capacity	Material-reactor	Material control panel	Connections	Max. operating pressure	Number of Lights	Light power	UV-C power	Voltage	Voltage	Operation	Protection class
BSI-11 UV water purification system	1100 litres per hour	RVS 316L, 2mm thick	nylon coated aluminium	3/4" external wire	10 bar	1 piece	18 Watt	6 Watt	230V / 50Hz	LED Indicator	on/off power-on switch	IP54
BSI-15 UV water purification system	1500 litres per hour	RVS 316L, 2mm thick	nylon coated aluminium	1" external wire	10 bar	1 piece	25 Watt	9 Watt	230V / 50Hz	LED Indicator	on/off power-on switch	IP54
BSI-30 UV water purification system	3000 litres per hour	RVS 316L, 2mm thick	nylon coated aluminium	1" external wire	10 bar	1 piece	50 Watt	16 Watt	230V / 50Hz	LED Indicator	on/off power-on switch	IP54
BSI-45 UV water purification system	4500 litres per hour	RVS 316L, 2mm thick	nylon coated aluminium	1" external wire	10 bar	1 piece	80 Watt	30 Watt	230V / 50Hz	LED Indicator	on/off power-on switch	IP54
BSI-58 UV water purification system	5800 litres per hour	RVS 316L, 2mm thick	nylon coated aluminium	1 1/2" external wire	10 bar	1 piece	80 Watt	30 Watt	230V / 50Hz	LED Indicator	on/off power-on switch	IP54
BSI-91 UV water purification system	9100 litres per hour	RVS 316L, 2mm thick	nylon coated aluminium	2" external wire	10 bar	1 piece	80 Watt	30 Watt	230V / 50Hz	LED Indicator	on/off power-on switch	IP54



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