



waveshine

Waveshine8500

Waveshine4250

INSTRUCTIONS

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Section 1. Introduction

1.1 Important

It is important to us that this product works as advertised and that you enjoy the extra peace of mind that Waveshine offers. If you have any queries that can not be answered by your supplier, please contact us direct on +44 (0) 1476 861717 or e-mail info@waveinternational.co.uk

1.2 What it does

- Waveshine is a wash down system that removes the minerals from water that cause spotting and smears when washing and rinsing your boat. When used to filter water going onboard it removes hardness softening the water for regular use, protecting sink, shower and sanitary fittings, it is not recommended for drinking water as the minerals have been removed.
- Waveshine can be used on the dock or onboard. It is supplied with saddle clamps that work as a stand on the dock or as brackets when installed onboard. It has an internal distribution and diffusing system ensuring maximum performance.
- Supplied with each Waveshine unit is a regenerating housing with a cartridge installed. This cartridge contains a particular salt specifically for regenerating the resin within Waveshine, simple rock salt will not be as effective. The replacement WSN-CS1 cartridges are available from your local supplier or from Wave International. Waveshine will clean up to 8,500 or 4,250 litres of water, depending on which model, between recharges.

NOTE

Waveshine needs regenerating as required to obtain the best results.

1.3 About these instructions

The panels on the left of the pages draw attention to SAFETY CONSIDERATIONS of the adjacent text in accordance with the conventions of the EU Recreational Craft Directive.

CAUTION

- CAUTION. Indicates a hazard that could result in personal injury or damage to your boat or its equipment if suitable care is not taken.

NOTE

- NOTE. Contains additional information that may be of help.

WARNING

- WARNING. Indicates a hazard that could result in death or serious injury if proper precautions are not taken. If you have any doubts about what precautions to take, you should seek expert advice.



Section 2. Basic Components

Before you start, please check that your system kit contains the following components. If you think you are short of any items, please call us immediately.

Waveshine Complete Systems

<u>Item</u>	<u>Qty.</u>	<u>Part no.</u>	<u>Description</u>
1.	1	WSN8500 / 4250	Waveshine8500 / 4250 with brackets.
2.	2	WSNR1	Waveshine Regenerating housing
3.	1	WSN-CS1	Waveshine regenerating cartridge
4.	1	WSN hose	Recharge hose.
5.	1	WSN-HK	Hardness test kit.

Section 3. Waveshine Specifications

WSN8500 / 4250 SYSTEM MAX. PRESSURE:	10 bar.
WAVESHINE REGENERATING HOUSING:	6.20 bar.
REGENERATING FILTER MAX. DIFF. PRESSURE:	2 bar.
MAX. TEMP:	45 deg. C.
MIN. TEMP:	1 deg. C.

Section 4. Operating

CAUTION

Ensure correct hose connectors are used.

NOTE

Waveshine needs regenerating as required to obtain the best results.

- **Operating flow direction LEFT to RIGHT. Connect the water supply hose (not supplied) to the left hand inlet connection, ensuring the correct hose connector is used to match the Waveshine 1/2" quick connect male hose connection.**
- **Connect wash hose (not supplied) to the outlet on the right hand side again ensuring the correct hose connector is used to match Waveshine 1/2" quick connect male hose connection.**
- **See Fig.1.**
- When first used the initial flow from the wash hose may be discoloured for a few minutes, allow this to pass before using to rinse or wash or for supply of softened water.
- After the initial few weeks of use test the hardness of the water with the kit provided and if still soft continue operating as before, if not then it may be time to regenerate Waveshine. The periods between regenerations depends on how much water is passed through the unit and how much hardness there is in the water supply.

Section 5. Regenerating

WARNING

Before replacing the cartridge ensure the water supply is turned off and there is no pressure in the housing.

CAUTION

Ensure correct hose connectors are used. When replacing the filter bowl hand tighten only.

WARNING

Place saturated cartridges in a suitable receptacle for responsible onward disposal

IMPORTANT. Before replacing the cartridge in the regenerating housing ensure the water supply is turned off and there is no pressure in the housing.

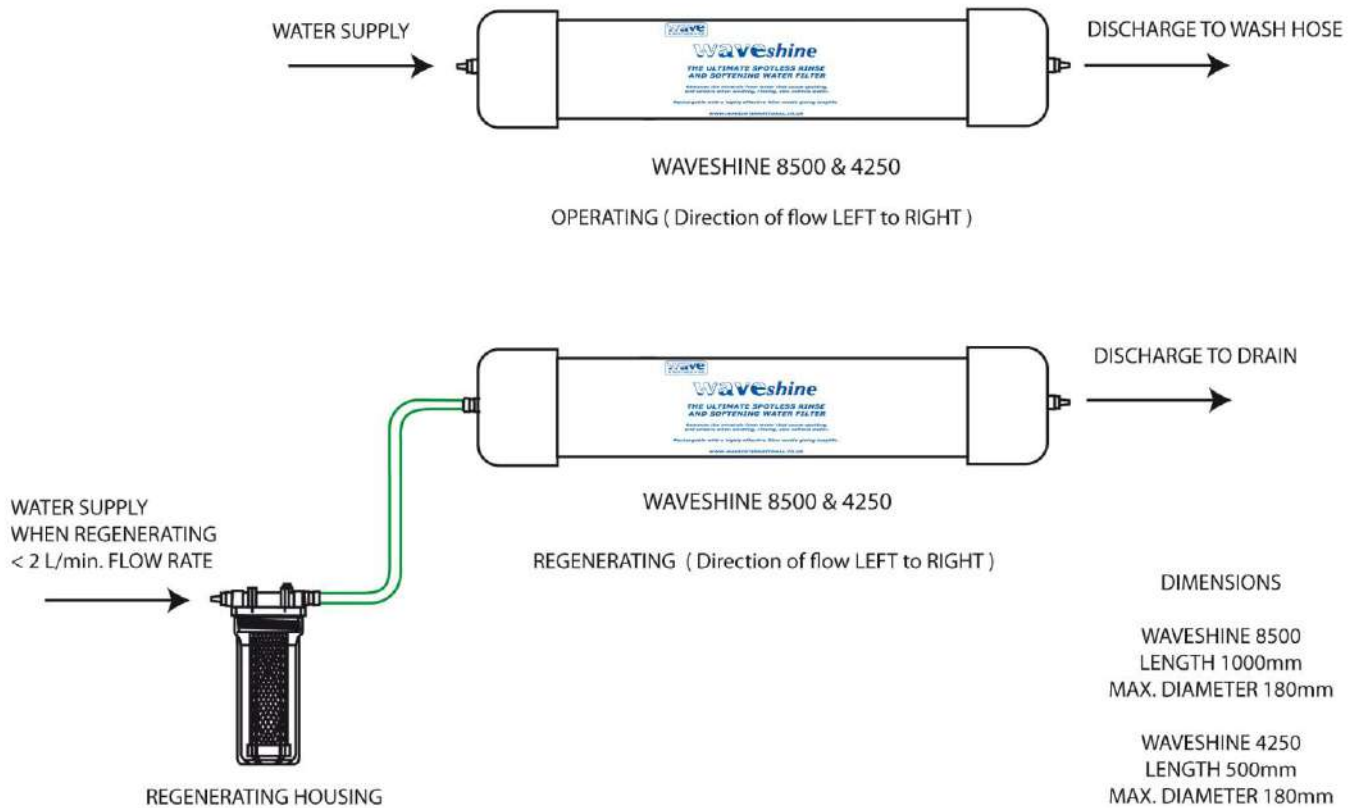
- **Due to the internal distribution and diffusing system regeneration flow direction is the same as when operating, LEFT to RIGHT.**
- **Connect the regenerating hose (supplied) to the left hand inlet connection of the Waveshine and the outlet, marked on the top, of the regenerating housing.**
- **Connect the water supply hose (not supplied) to the inlet connection of the regenerating housing, ensuring the correct hose connector is used to match the filter housing 1/2" quick connect male hose connection.**
- **Connect a discharge hose (not supplied) to the right hand outlet connection of the Waveshine and direct to drain, ensuring the correct hose connector is used to match the filter housing 1/2" quick connect male hose connection**
- **See Fig.1.**
- Regeneration should take about 30 minutes. After this period remove the cartridge and shake it to see if all the salt has been used, if not carry out further regeneration until all the salt has been used. Using the hardness kit provided check regeneration has been successful.
- If there has been excessive fouling of Waveshine it may be necessary to carry out a second regeneration using a new WSN-CS1 cartridge, simply install a new cartridge and repeat.

Section 6. Code of Practice

Some points to remember

- Make sure all water hoses and connections are in good order and are not leaking.
- Regularly check during operation.
- Check regularly hardness of discharge water using kit provided.

Section 7. Operating & Regenerating Diagrams. Fig. 1



SCHEMATIC NOT TO SCALE



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