

Protecting your VorTech

Protect the pump from water

The VorTech's motor housing and driver are NOT WATERPROOF. Any water allowed into these components can damage them enough to require replacement. This kind of damage is NOT covered in the VorTech's warranty. Protect these components from splashes of any kind.

Maintenance

Wear of the drive shaft

The VorTech pump features a wear component in the form of the drive shaft. This part is designed with a special engineering grade plastic which extends the part's lifetime. The plastic drive shaft can be expected to last for years, depending on the speed, frequency and alignment of the pump.



The wet magnet and drive shaft should be observed periodically to monitor wear. If the magnet begins to show signs of rapid oxidation in the form of bubbles on the magnet surface, they may need to be replaced. Replacements can be purchased directly from EcoTech Marine.

Cleaning your VorTech

The VorTech may need thorough cleaning of the components periodically to keep it running optimally. This can be accomplished by disassembling the wet half of the pump and gently brushing the components with a soft brush under running water. Soaking these parts in a mild acid solution such as vinegar may be necessary if there is an extreme amount of calcium buildup. Do not use strong acids as this may damage the components.

Troubleshooting

Break-in

The VorTech pump is engineered to adapt to its aqueous environment. During the first week of use, your pump may run noisier or stall. The noise should quiet dramatically over night and any stall conditions can safely be reset by manually cycling the power to your pump.

Driver Error Codes



Over Temperature Condition

In the event of a motor overheating, the pump will automatically shut down for a period to allow for cooling. Once the motor has cooled, the driver will automatically restart and resume normal operation. You may experience an overheating error from a misalignment.

Stall Condition

In the event of a motor stall, the pump may have stopped for a few possible reasons. You should first check that there is not something blocking the propeller from spinning. Next, check to make sure the magnets are not rubbing on either the pin spacer or the frame cover.

Miscellaneous Error

This error could be attributed to a communication error between pumps or an unidentified error in the wave driver.

FCC Warnings:

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference including interference that may cause undesired operation of the device. Changes or modifications not expressly approved by EcoTech Marine could void the user's authority to operate the VorTech Wireless Wave Driver.

Customer Support

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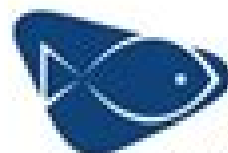
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