



**Affordable. Reliable. Home Improvement.**

**AQUARIUM WAVE MAKER WITH  
CONTROLLER**

**MODEL: EB-V11/EB-V12**

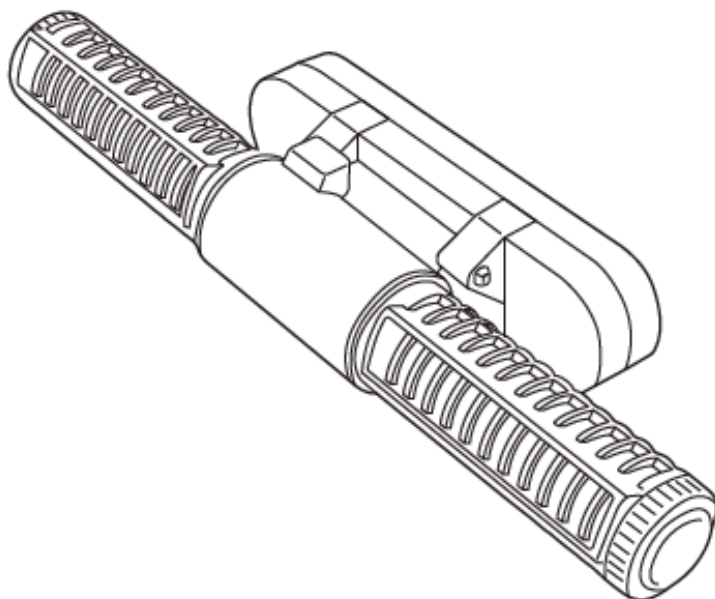
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# VEVOR

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AQUARIUM WAVE MAKER  
WITH CONTROLLER

**MODEL: EB-V11/EB-V12**



(The picture is for reference only, please refer to the actual object)

This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

# Introduction

- Remove the product and install it correctly according to the instructions.
- Connect the product power cord waterproof plug connection controller, Select the fish tank to install the location.
- There are four types of wave -making mode, and various modes are switched by "M" key:

(1) Constant Flow mode, (2) wave -making mode, (3) chaos mode, (4) tide mode.

- Press the "F" key for the feeding function and switch, press for the first time for the feeding function for 10 minutes, and then press the "+-" key to select the feeding time you need, press the second "F" key to shut down, press the second "F" key, press the second "F" key, and press to press the second time. The third "F" key was restarted.

- 20 gear adjustable speed, press the "+-" key to adjust the speed, adjust the requirements according to the size of the fish tank.

- The knob key has a switch and frequency adjustment function. Press the switching function down. The knob rotates the pulse to the right to the right.

## SPECIFICATION

Model	EB-V11	EB-V12
Input	AC100-240V 50/60Hz 15W	AC100-240V 50/60Hz 25W
Output	DC24V 1A	DC24V 1.5A
Q.max	1428GPH	2380GPH
Recommend tank size	≤60cm (159Gal)	≤100cm (265Gal)
Suitable for glass thickness	≤20mm	

## CAUTIONS

The waterproof plug of the power cord must be inserted according to the indicator arrow to avoid damage to the motor caused by short circuits.

In order to ensure product performance, it is forbidden to run without water.

For safety reasons, the controller is best installed in a position where children are difficult to touch and are not easy to splash water.

Non-professional, please do not open the control box casually, so as not to destroy electronic components.

When installing the water pump, the pump should be placed inside the fish tank, the power cable port is up, and the other half of the strong magnetic base can be fixed to the outside of the fish tank.

Strong magnets do not allow children to play, so as not to cause personal injury.

The controller is prohibited from sneaking into the water to avoid damage to electric shock.

## Fault code

E1: Water shortage protection (no water or water level is too low than the scope of application of the pump)

E2: Rotating block protection (there is garbage or foreign matter stuck in the impeller)

E3: Lack of phase protection (if more than one of the three wires of the motor is not connected, the controller needs to be replaced)

E6: Short circuit protection (when two points in the circuit that should not be connected, such as the liveline and the neutral line, are directly short-circuited)

## Pump installation magnet steps



Step 1: Grab the magnetic seat of the pump with both hands and then rotate outward to open it



Step 2: Put the pump machine into the side of the fish tank and fix it by hand. Then the magnetic back cover is gently adsorbed on the outside of the glass of the product.

## Steps for connecting pump power cables

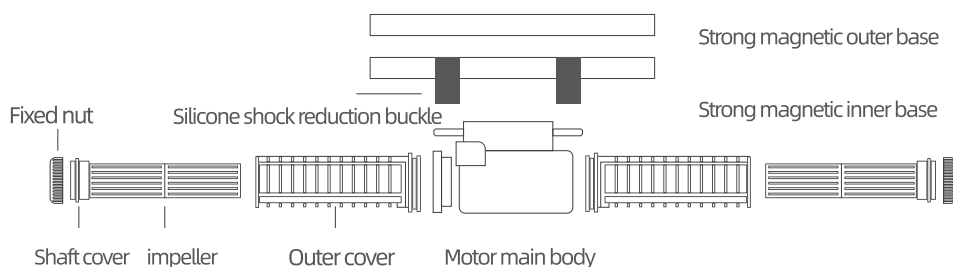


# USAGES



# Maintenance

- Regularly clean the wave -making pump to ensure its effective operation;
- If there is water on the surface of the control box, please dry it with a dry cloth to prevent the water from entering;
- When cleaning the pump body debris, remove it by rotating the outer cover to the deduction;
- Wipe the impeller with a soft cloth and wash the pump dirt with water;
- This product is an indoor product, and the controller is prohibited from sneaking into the water to avoid electric shock





## Fault cause and troubleshooting method

Incidents	Causes	Remedies
Starting difficulty	<ol style="list-style-type: none"> <li>1.The power supply voltage is too low</li> <li>2.The impeller is stuck</li> <li>3.Cable voltage drop is too large</li> </ol>	<ol style="list-style-type: none"> <li>1.Adjust the voltage to the rated taxi 10%</li> <li>2.Remove debris</li> <li>3.Choose a reasonable cable</li> </ol>
Low water yield	<ol style="list-style-type: none"> <li>1.The lift is too high</li> <li>2.The entrance is blocked</li> <li>3.Impeller wear serious</li> <li>4.The electric pump diving depth is shallow, there is air suction</li> </ol>	<ol style="list-style-type: none"> <li>1.According to the use of the head range</li> <li>2.Remove water weeds and other debris</li> <li>3.Replace the impeller</li> <li>4.Adjust the diving depth of the electric pump</li> </ol>
Sudden stop	<ol style="list-style-type: none"> <li>1.The switch is disconnected or the fuse is burned out</li> <li>2.The impeller is stuck</li> <li>3.The stator winding is burned out</li> </ol>	<ol style="list-style-type: none"> <li>1. Whether the power supply voltage meets the requirements and is adjusted to replace the fuse</li> <li>2. Remove debris</li> <li>3. Replace the stator winding</li> </ol>
The stator winding is burnt out	<ol style="list-style-type: none"> <li>1.Mechanical seal damage water leakage, resulting in turn or interphase short circuit</li> <li>2.The impeller is stuck</li> <li>3.The electric pump starts frequently or the electric pump dewatering operation time is too long</li> <li>4.The electric pump overload operation</li> </ol>	Remove the fault, remove the winding and re-wind the wire according to the original technical requirements, and dip in insulation paint or send to the maintenance unit for repair
Noise or abnormal noise	During the use of the pump, there is noise and abnormal noise.	<ol style="list-style-type: none"> <li>1.After the pump head into the water, first turn on and off two or three times, let the air drain, and then start again. Avoid loud sounds.</li> <li>2.Please install the pump away from the oxygen bubble area, to avoid breathing oxygen caused by loud noise.</li> </ol>



**FCC Information:**

**CAUTION:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment!

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This product may cause harmful interference.
- 2) This product must accept any interference received, including interference that may cause undesired operation.

**WARNING:** Changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the product.

**Note:** This product has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the distance between the product and receiver.
- Connect the product to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

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