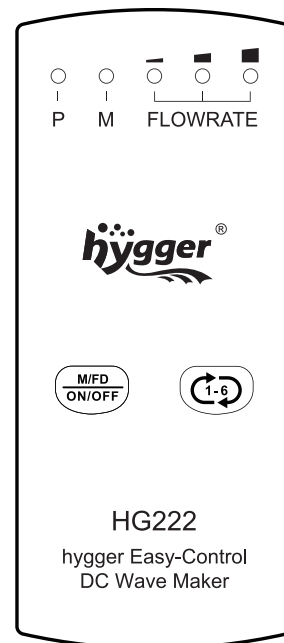
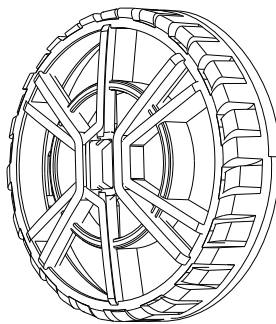
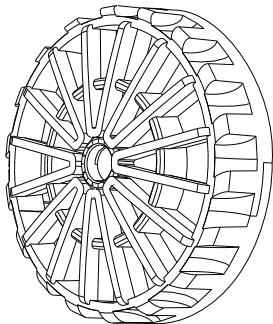
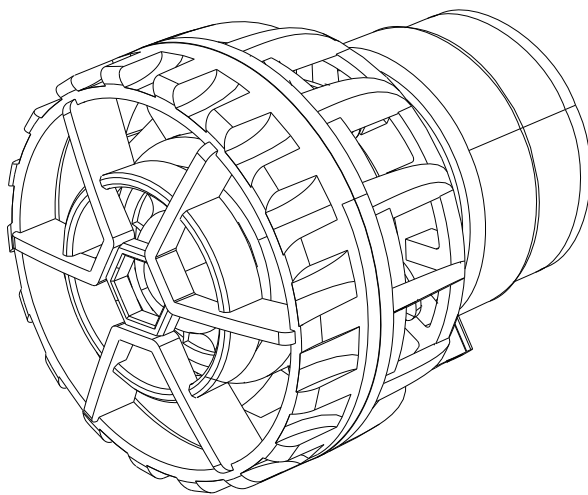




HG222 USER MANUAL

hygger Easy-Control DC Wave Maker

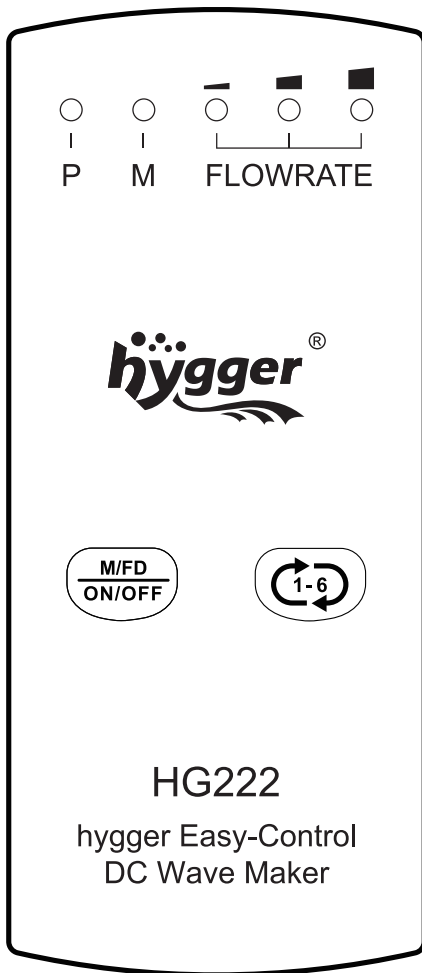


hygger Easy-Control DC Wave Maker is suitable for 10-20 gallons of aquariums. It features a simple operation controller to customize wave modes, flow rates, and frequencies. It is compact in size and has a powerful impeller. Please read this manual carefully before using the product and keep it for future reference; follow the instructions to ensure proper pump operation.

1. PRODUCT FEATURES

- Adjustable wave modes and flow rate.
- The ultra-quiet wave pump is controlled by sine wave technology.
- Powerful magnetic holder for easy installation and mobility.
- Suitable for freshwater, saltwater, and reef aquariums.
- Supports glass thickness up to 3/8 inch (8 mm).

2. PRODUCT DIAGRAM



3 WAVE ATTACHMENTS



WIDE

For producing large and gentle current



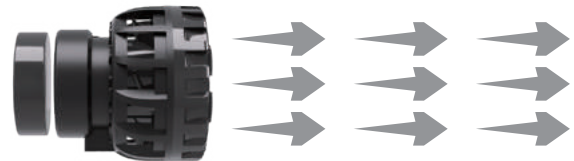
MEDIUM

For producing moderate water movement and mid-range distance current



NARROW

For producing strong jet flow and long-distance current



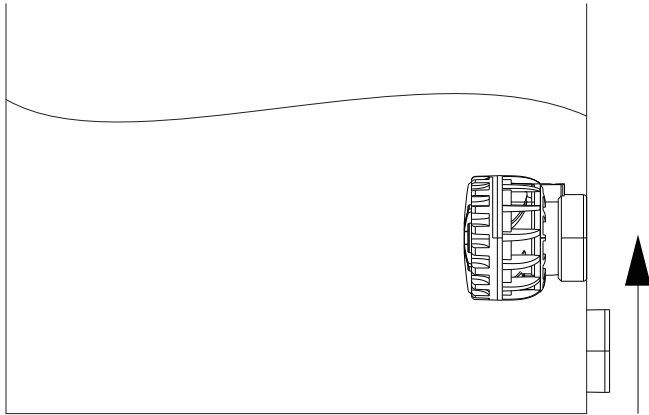
3. PRODUCT SPECIFICATIONS

Model	Voltage	Power	Max flow rate	Applicable aquarium size	Glass thickness
HG222-9W	Input: 100-240V 50/60Hz Output: DC12V	9W	660GPH (2500L/H)	5-10 GAL (18~37L)	≤3/8inch (8MM)
HG222-12W	Input: 100-240V 50/60Hz Output: DC12V	12W	790GPH (3000L/H)	10~20 GAL (37~75L)	≤3/8inch (8MM)

4. INSTALLATION INSTRUCTIONS

- Detach the magnetic holder from the pump body.
- Submerge the pump underwater at least 3 inches (7.6 cm) and secure it to the aquarium's outer glass using the magnetic holder.
- Connect the wave pump to the controller and the controller to the adapter. Plug in and operate (Fig. 1).

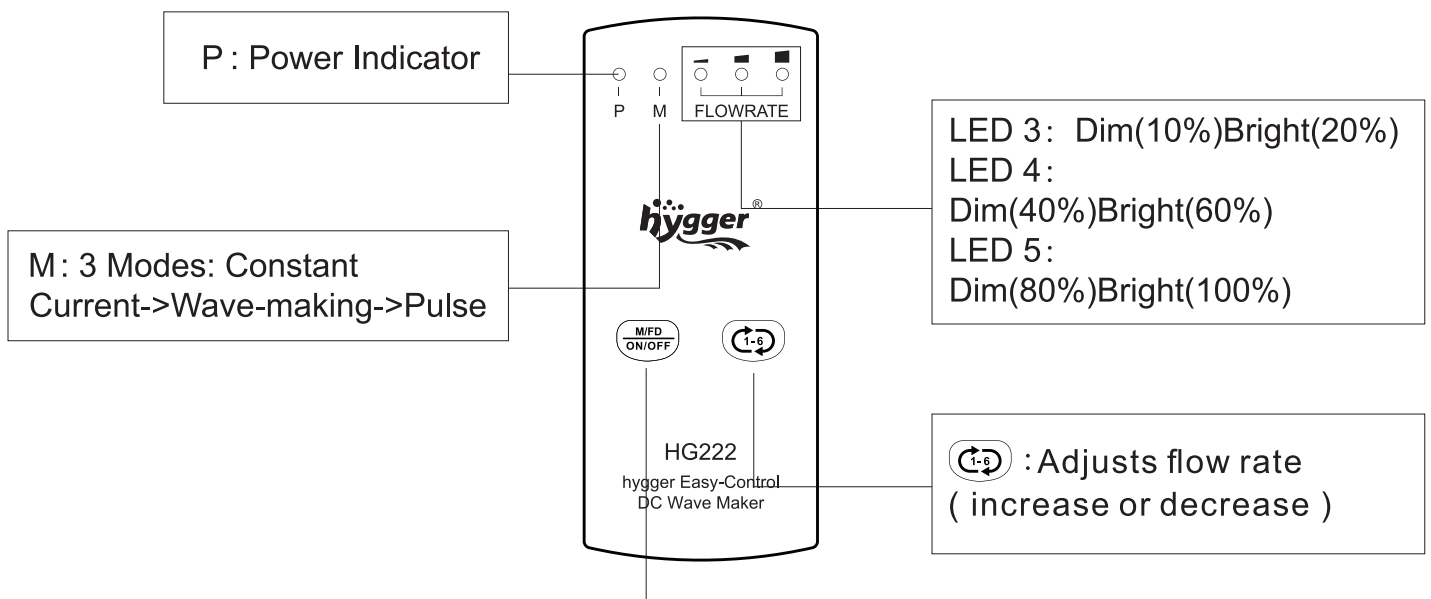
Fig. 1



CAUTION:

- Be careful not to pinch your fingers; the magnetic force is strong.

5. INSTRUCTIONS FOR BUTTON FUNCTIONS





M/FD ON/OFF : **Short press:** Press **M/FD ON/OFF** to switch to wave-making mode.

Long press: Activates feeding mode (All five indicator lights flash simultaneously for a 10-minute feeding countdown. One indicator light turns off every two minutes; the pump resumes its previous mode upon completion).

During feeding mode: Press the button again during feeding mode to turn off the pump.

Instructions for Use


When powered on, the first and second indicators stay on along with one of the latter three indicators, indicating normal power connection, current operational mode and flow rate status.

 Single click M Button  to cycle through three modes: Constant Current → Wave-making → Pulse

Constant Current: Indicator steadily lit

Wave-making: Indicator flashes


Pulse: Indicator gradually brightens and dims


 Short press the button to set the flow rate. Each indicator light has two brightness levels: Dim and Bright. All three indicator lights light up at maximum flow rate.


LED 3 flow levels: 10% (Dim light indicator)/20% (Bright light indicator)

LED 4 flow levels: 40% (Dim light indicator)/60% (Bright light indicator)

LED 5 flow levels: 80% (Dim light indicator)/100% (Bright light indicator)

 Step 1) Long press the button to activate feeding mode (All five indicator lights flash). The feeding countdown lasts 10 minutes, with each light timed for 2 minutes.

When the timing ends, the corresponding light turns off. After all lights turn off, the wave pump resumes its previous mode. If you press and hold , all five indicator lights turn off, and the pump powers down.

Step 2) All controller indicator lights off and short press  to turn on the pump.

Attention



- Always install the protective cover securely on the wave pump before initial use to ensure fish safety.
- The controller is not waterproof. Keep dry and avoid water contact to prevent electrical hazards or damage.
- Never run the pump dry. Always fully submerge it during use.
- Maintain water level ≥ 1 inch above the pump's top edge to avoid damage.

6. PRECAUTIONS

1. The mains voltage and current frequency for the pump are specified. Use only with specified mains voltage and current frequency.
2. Never allow the pump to run dry for more than 5 minutes. Always fully submerge during operation for cooling. Keep controller dry to prevent permanent pump damage.
3. The pump is suitable for use in fresh and salt water. Do not use it in flammable, acidic or corrosive liquids.
4. The pump can be operated in clean water at 4°C–35°C (39°F–95°F). Temperatures outside this range risk damage.
5. Never lift the pump by the cable to avoid damage.
6. Power off the pump immediately if cable is damaged.
7. The controller is not waterproof. Keep dry; avoid submersion or humid environments.
8. Store the pump in original packaging when unused.

7. TROUBLESHOOTING

Please note: Always disconnect the appliance from the power supply before troubleshooting.

Error	Cause	Solution
The pump does not work	Damaged power supply	Replace the power supply
	Damaged pump	Replace the pump
	The controller is broken	Replace the controller
	The impeller is blocked	Remove the impeller and clean it
	The motor protection function has triggered	Disconnect the device from the power supply for two seconds and then plug it back in
Insufficient water current	The impeller is clogged	Clean the impeller
	The water inlet or outlet is blocked	Clean the water inlet or outlet
The pump switches off after a short time	Dirty water	Carry out a water change
	The water temperature is too high	Please note that the maximum temperature is 35 °C
"P" button flashes 	Overload Protection: Software and hardware overload protection	Contact the manufacturer for solution
"M" button flashes 	Undervoltage Protection: Triggered when mains voltage drops below 60V	Contact the manufacturer for solution
LED 3 flashes	Overvoltage Protection: Triggered when mains voltage exceeds 265V	Contact the manufacturer for solution
LED 4 flashes	Phase Failure Protection: Triggered by unsecured waterproof connector between controller and pump, or pump winding failure	Contact the manufacturer for solution
LED 5 flashes	Dry-run/Blockage Protection: Triggered by foreign object jamming the pump or insufficient water in the sump tank	Clear debris immediately or refill water

8. MAINTENANCE

1. Always disconnect the power supply from any underwater equipment before maintenance.
2. Cleaning: First, disconnect controller/pump plugs, remove pump front cover, and extract impeller and axle. Then, carefully clean all components with a soft brush in clean water. After cleaning, reassemble the pump according to manual instructions.
3. Keep all plug connections dry during cleaning.

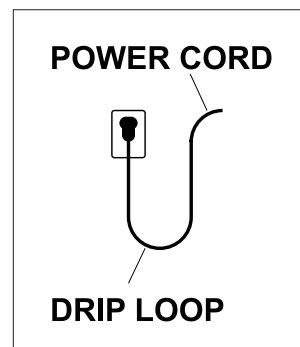
9. PACKING LIST

1x Pump	2x Wave attachment
1x Magnetic holder	1x Screw
1x Controller	1x Sticky hook
1x Power adapter	1x User manual

10. WARNING

To avoid possible electric shock, do not immerse the switch in the water. If the switch falls into the water or becomes wet, do not touch it until you have unplugged it. Basic safety precautions that should be observed are as follows:

1. Read and follow this user manual strictly.
2. **DANGER-** To avoid possible electric shock, special care should be taken since water is employed in the use of aquarium equipment. For each of the following situations, do not attempt to repair yourself. Instead, return the pump to an authorized service facility for maintenance or discard it.
 - A.If the pump shows any sign of abnormal water leakage or RCD (or GFCI- Ground Fault Current Interrupter), unplug the power and remove the pump from water.
 - B.Carefully examine the pump after installation. It should not be plugged in if there is water on parts that are not intended to be wet.
 - C.Do not operate the pump if it has a damaged cord or plug, is malfunctioning, dropped or damaged in any manner. The power cord of this pump cannot be replaced. If the cord is damaged, the pump should be discarded.
 - D.To avoid the possibility of the pump plug getting wet, position the aquarium and its stand to one side of a wall mounted outlet to prevent water from dripping onto the outlet or plug. A “drip loop”, shown in the figure below, should be arranged by the user for each cord, which connects the pump to the outlet. If an extension cord is used, the “drip loop” is the part of the cord below the level of the outlet or the connector that prevents water from traveling along the cord and coming in contact with the outlet. If the plug or outlet does get wet, **DO NOT** unplug the cord. Disconnect the fuse to the circuit breaker that supplies power to the pump. Then unplug and examine for the presence of water in the outlet. If you are not sure, consult a certified electrician.
3. Close supervision is necessary when the pump is used near children.
4. To avoid injury, do not contact moving or hot parts.
5. Always unplug the pump from the outlet when not in use, before putting on or taking off parts, maintenance or placing hands in the water. Never yank the cord to pull the plug from the outlet. Grasp the plug and pull to disconnect.
6. Do not use the pump for other than intended use. The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition and will void the warranty.



11. DISPOSAL

Do not dispose of this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary. This product has to be disposed of at an authorized place for the recycling of electrical and electronic appliances rather than being disposed of together with the domestic waste. Collecting and recycling waste is a way of saving natural resources. So, please consult with your local seller to make sure the product is disposed of in an environmentally friendly way.



12. CONTACT INFORMATION

Contact us at www.hygger-online.com

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