

hygger HG070



hygger Aquarium Wave Maker

INSTRUCTION MANUAL FOR MODEL HG070 (18W)

1. Introduction

Thank you for choosing the hygger Aquarium Wave Maker. This device is designed to simulate natural ocean currents within your aquarium, promoting a healthier environment for your aquatic inhabitants by eliminating dead spots and improving water circulation. This manual provides detailed instructions for the safe and effective use of your wave maker.

2. Safety Information

Please read all safety warnings and instructions carefully before use to prevent injury or damage.

- Always disconnect the power supply before performing any maintenance, installation, or removal of the wave maker.
- This product is designed for indoor aquarium use only. Do not use it for purposes other than its intended use.
- Ensure your hands are dry before handling the power adapter or plugging/unplugging the unit.
- Do not operate the wave maker if the power cord or plug is damaged.
- Keep the controller dry and away from water splashes.
- Ensure the wave maker is fully submerged in water during operation to prevent overheating.
- For tanks with anemones or small fish, consider adding a protective guard to the intake to prevent entrapment.

3. Product Overview

3.1 Components

- Wave Maker Pump Unit
- LED Display Controller
- Magnetic Base

3.2 Product Diagram



Figure 1: Hygger Aquarium Wave Maker and Controller

3.3 Controller Panel



Figure 2: Detailed view of the Controller Panel with labeled buttons and indicators.

- **Wi-Le/NIGHT Button:** Short press to select master, slave, or independent control. Long press to enter Night Mode.
- **MODE/FREQ Button:** Short press to select wave mode. Long press to display frequency, then adjust with "+" / "-" buttons.
- **OFF/FEED Button:** Short press to turn the pump on/off. Long press to enter Feeding Mode.
- **Speed Adjust Buttons (+/-):** Adjust flow rate and frequency.
- **Lock Mode:** Press and hold "+" and "-" simultaneously until the lock indicator appears. Repeat to unlock.

4. Setup

4.1 Installation

1. Ensure your aquarium glass is clean and free of algae or debris where the wave maker will be installed.

2. Attach the wave maker unit to the inside of the aquarium glass using its magnetic base. Position the external magnet on the outside of the glass, aligning it with the internal unit. The strong magnetic base allows for easy and secure positioning.
3. The wave maker is suitable for tank thickness up to 0.39 inches (10mm) for the 18W model.
4. Connect the wave maker pump unit to the controller, and then connect the controller to the power adapter.
5. Plug the power adapter into a suitable electrical outlet.

4.2 Recommended Placement

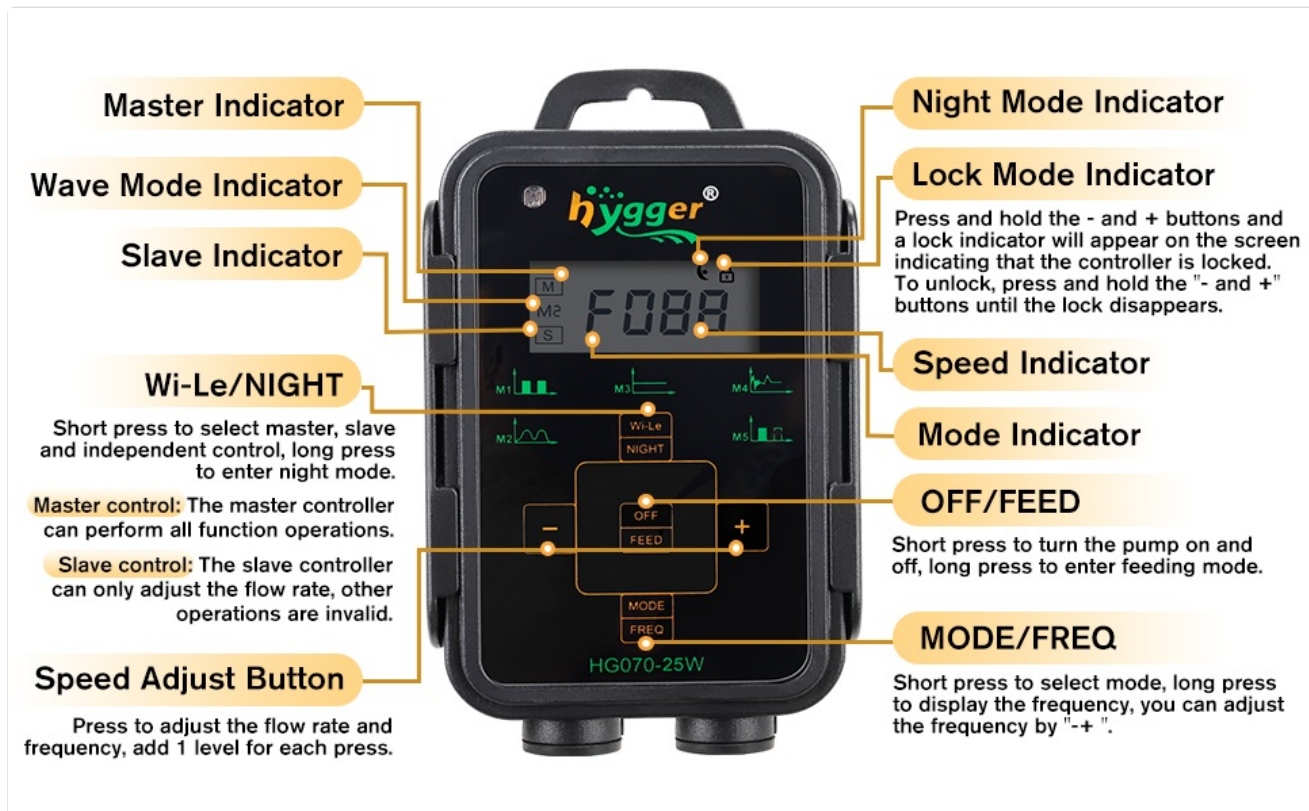


Figure 3: Different placement options for the wave maker.

- **Upper Side:** Installed near the water surface, it creates visible wave shapes, mimicking surface agitation.
- **Middle:** Placed in the middle of the tank, it generates a continuous stream of small bubbles, simulating ocean currents and exercising fish.
- **Bottom:** Positioned near the substrate, it helps blow away debris and accumulated waste, contributing to a cleaner tank and improved water quality.

5. Operating Instructions

5.1 Wave Modes

The hygger wave maker offers 5 distinct wave modes to simulate various natural water flows. Use the **MODE/FREQ** button to cycle through them.



CROSS FLOW WAVEMAKER IMITATING REAL OCEAN WAVES



✦ Create a beautiful fish gathering shape ✦



Figure 4: Visual representation of the 5 available wave modes.

1. **M1: Classic Wave Plush Mode (Pulse Wave):** Creates intermittent pulses of flow.
2. **M2: Sine Wave Mode:** Generates a smooth, oscillating flow.
3. **M3: Constant Wave Mode:** Provides a steady, continuous flow.
4. **M4: Random Wave Mode:** Produces unpredictable, varying flow patterns.
5. **M5: Classic Wave Cross-Flow Mode:** Utilizes the unique cross-flow technology for broad, gentle water movement.

5.2 Adjusting Flow Rate and Frequency

After selecting a wave mode, use the + and - buttons to adjust the flow rate (30-100 levels) and frequency (30-100 levels) to suit your aquarium's needs.

5.3 Feeding Mode



Figure 5: The wave maker in Feeding Mode, allowing fish to eat undisturbed.

Long press the **OFF/FEED** button to activate Feeding Mode. The pump will temporarily stop for 10 minutes, allowing

your fish to feed without being disturbed by the current. The pump will automatically resume operation after 10 minutes.

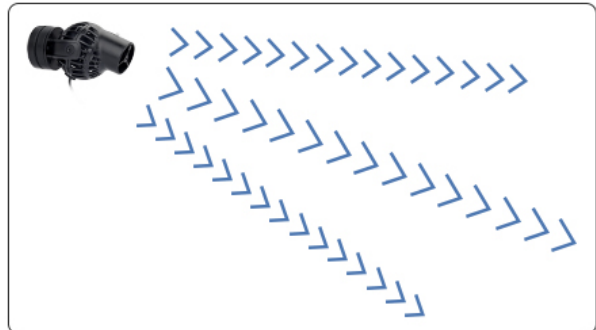
5.4 Night Mode

WHY REDESIGN WAVE MAKING PUMP



CROSS FLOW WAVE MAKER

- 1 The water flow covers the whole fish tank, and the tank bottom is free of fish excrement and other debris.
- 2 Crossflow pump can make the thermostatic effect of heater & cooler better to the extreme.
- 3 Crossflow tech simulates natural waves, which will be better for the healthy growth of corals.



TRADITIONAL WAVE MAKER

- 1 The water flow is straight, waves are hard to turn to form a cycle.
- 2 The water wave comes from a small pump fan, the closer, the stronger the impact is.
- 3 Can't simulate the natural environment, better for small tank.

Figure 6: Comparison of day and night mode operation, showing the light sensor's effect.

Long press the **Wi-Le/NIGHT** button to enter Night Mode. The built-in light sensor will detect ambient light levels. When the controller is in darkness, the pump speed will automatically slow down to provide a calmer environment for nocturnal aquatic life.

5.5 Linkage Mode (Master/Slave Control)

This feature allows multiple hygger wave makers to operate in sync. Short press the **Wi-Le/NIGHT** button to select Master, Slave, or Independent control. In Master mode, one controller can manage all functions of linked slave units.

6. Maintenance

Regular cleaning and maintenance are crucial for the longevity and optimal performance of your hygger wave maker.

- **Monthly Cleaning:** Disconnect the power. Remove the wave maker from the tank. Disassemble the unit carefully according to the diagrams (refer to product packaging or online resources for detailed disassembly steps). Clean the impeller and internal components to remove any accumulated algae, debris, or small substrate particles. A soft brush and clean water are recommended.
- **Impeller Check:** Periodically inspect the impeller for any signs of wear or damage. A worn impeller can lead to increased noise or reduced performance.
- **Cable Inspection:** Regularly check the power cord and connections for any signs of damage or fraying.
- **Controller Care:** Keep the controller dry and clean. Avoid exposing it to direct water splashes.

7. Troubleshooting

Problem	Possible Cause	Solution
Pump is noisy or making a loud hum.	Impeller obstructed by debris (e.g., small rocks, algae).	Disconnect power, disassemble the pump, and thoroughly clean the impeller and its housing. Reassemble and test.
Controller displays "ER04" error.	Obstruction in the pump or impeller.	Disconnect power, check for and remove any obstructions in the pump. Ensure the impeller spins freely. Reconnect power.
Pump not turning on.	No power, loose connection, or faulty unit.	Check power outlet, ensure all connections are secure. Verify the controller is not in OFF mode. If issues persist, contact support.
Weak or inconsistent flow.	Partial obstruction, low power setting, or unit needs cleaning.	Clean the pump. Increase flow rate setting on the controller. Check for proper submersion.

8. Specifications

The hygger HG070 series is available in different wattages to suit various tank sizes.



Model	HG070-12W	HG070-18W	HG070-25W
Flow Rate	1321GPH(5000L)	1850GPH(7000L)	2380GPH(9000L)
Recommend tank size	≤ 60CM (60Gal)	≤ 80CM (135Gal)	≤ 100CM (265Gal)
Recommend glass thickness	≤ 0.315" (8MM)	≤ 0.39" (10MM)	≤ 0.47" (15MM)
5 Wave Modes	✓	✓	✓
Wireless Linkage Mode	✓	✓	✓
Feed Mode	✓	✓	✓
Night Mode	✓	✓	✓
Key Locking Function	✓	✓	✓

Figure 7: Comparison of HG070 models (12W, 18W, 25W) and their specifications.

Parameter	HG070-12W	HG070-18W (Current Model)	HG070-25W
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Parameter	HG070-12W	HG070-18W (Current Model)	HG070-25W
Voltage Input	AC100-240V 50/60Hz		
Voltage Output	DC24V		
Flow Rate	1321 GPH (5000L)	1850 GPH (7000L)	2380 GPH (9000L)
Recommended Tank Size	≤ 60 CM (60 Gal)	≤ 80 CM (135 Gal)	≤ 100 CM (265 Gal)
Recommended Glass Thickness	≤ 0.315" (8MM)	≤ 0.39" (10MM)	≤ 0.47" (15MM)
Dimensions (L x W x H)	4.8"L x 1.4"W x 1.3"H	8.5"L x 2"W x 2"H	11.1"L x 2.4"W x 1.3"H
Wattage	12 watts	18 watts	25 watts
Item Weight	Not specified	1.81 pounds	Not specified
Model Number	HG070		

9. Warranty and Support

hygger products are manufactured with quality and reliability in mind. For specific warranty details and support, please refer to the warranty card included with your product or visit the official hygger website. If you encounter any issues not covered in this manual, please contact hygger customer service for assistance.

Contact Information: Please refer to the contact details provided on the product packaging or the official hygger website.