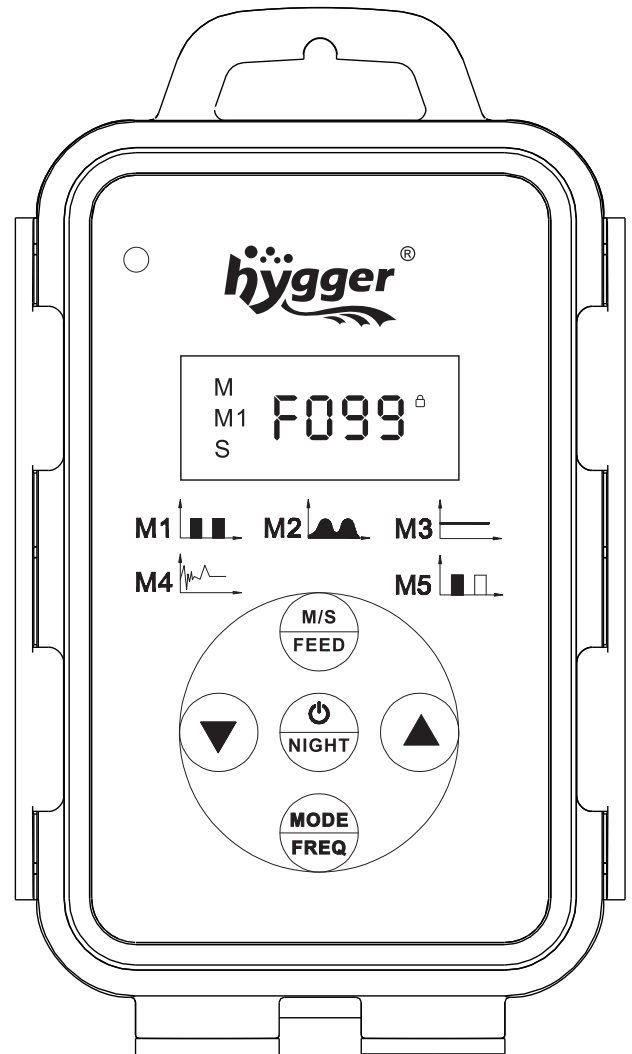
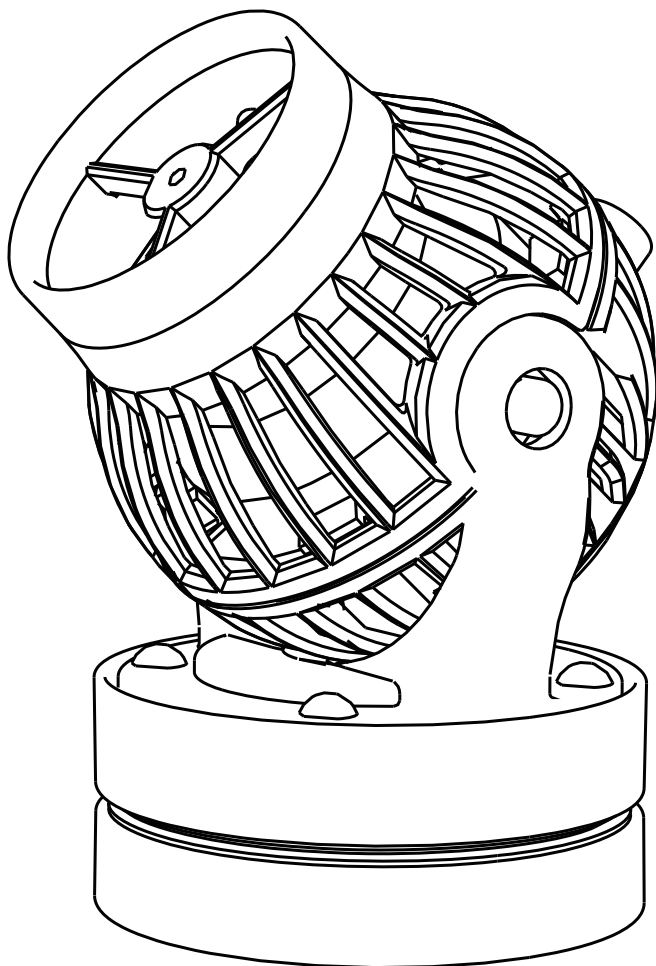




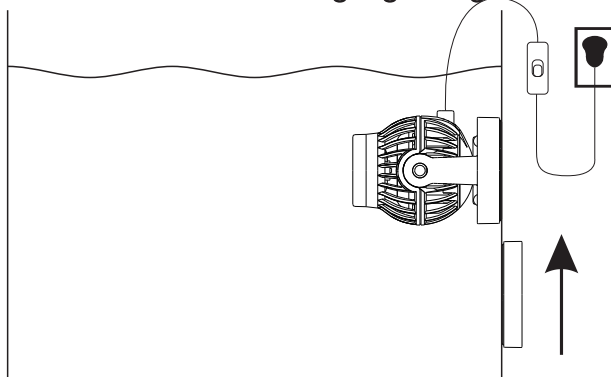
HG151 USER MANUAL

hýgger DC PRO Aquarium Wave Maker



WARNING:

- 1) For best performance, the pump should never run dry.
- 2) The controller should be kept in a dry place to avoid splashing.
- 3) Be careful when connecting with the magnetic base. Keep it parallel to the pad near the outer walls of the aquarium to avoid damaging the glass.



1.INTRODUCTION

We provide the latest technology for hygger's wave pump, which we incorporate into our professional design, allowing us to simulate the natural environment and create a natural habitat for your fish and invertebrates in the aquarium. Please read these operating instructions carefully before installing and operating the pump.

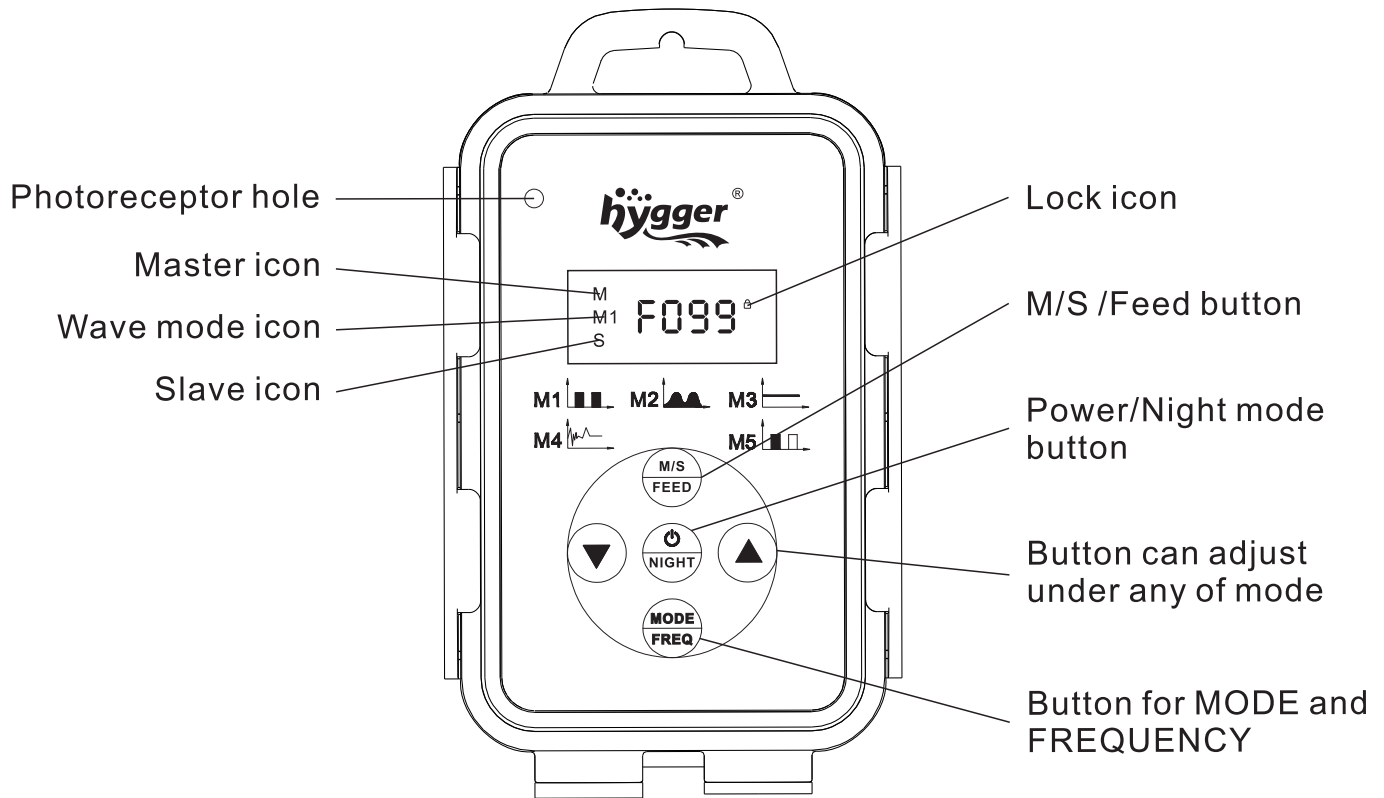
2.PRODUCT FEATURES


1. Various wave modes allow the complex dynamics of the ocean to be brought into the aquarium.
2. The wireless connection coordinates and synchronizes both wave pumps with one controller, providing a convenient and easy-to-use system.
3. The pump is equipped with a low-voltage inverter DC motor that ensures safety for users and aquarium creatures.
4. Multiple sea movements are available with this pump.
5. Thanks to the unique design, the flow direction of the pump can be flexibly adjusted.
6. Due to its large supply voltage tolerance (AC100-240V/50-60Hz), the pump is suitable for different supply voltages. This allows us to avoid voltage fluctuations wave generation.


3.PRODUCT SPECIFICATIONS



Model	Voltage	Flow rate (GPH)	Suitable fish tank size	Recommend glass thickness	Cord length
HG151-6W	Input: 100-240V 50/60Hz Output:DC 12V/1A	1500GPH (5670L/H)	20-100GAL (75-380L)	≤8MM	5+6.8Ft/ 1.5+2.1M
HG151-12W	Input: 100-240V 50/60Hz Output:DC 24V/0.75A	2200GPH (8300L/H)	30-150GAL (112-568L)	≤10MM	


4.CONTROLLER DIAGRAM










1)a. Briefly press the button , and the “M” indicator light illuminates. The controller is now in Master mode; All settings for several pumps running synchronously are made here.

b. Press the button  twice, and the “S” indicator light illuminates. The controller is now in Slave mode; this controller can only set the flow rate, and other buttons have no function.




c. Press and hold the button , “Fd10” on the display, which means the feeding mode is activated. The pump will stop automatically for 10 minutes so that you can feed in peace, then return to operation. If you want to cancel the pause beforehand, press and hold the button . Slave controller in linkage mode can only display FEED, not Fd10.

2) Press the button  to switch the pump on/off. Press and hold the button for 3 seconds to switch to night mode; if the photoreceptor hole detects a dark environment, it will automatically switch to the lowest gear of constant mode. If the photoreceptor hole detects a bright environment, the wave-making mode will switch to the last wave-making mode according to the memory function.




3) Press  and  to adjust the flow rate for wave modes. Press and hold  and  until the lock icon appears on the display, which means the button lock is active. To cancel the button lock, press and hold  and  until the lock icon disappears on the display.

4) Press  to switch between the five modes (M1, M2, M3, M4, M5) and set the frequency.



M1: Classic wave pulse mode

One or several pumps can be operated simultaneously, press  and  to increase and decrease the flow rate from F30 to 100. Press and hold  to set the frequency.

M2: Sine wave mode

One or several pumps can be operated simultaneously, press  and  to increase or decrease the flow rate from F30 to 100. The power of the cross-flow pump varies between 30 % and 100 %, and the flow rate varies like a sine curve. Press and hold  to set the frequency.




M3:Constant wave mode

One or several pumps can be operated simultaneously, press  and  to increase or decrease the flow rate from F30 to 100. The power of the cross-flow pump remains constant.

M4:Random wave mode

One or several pumps can be operated simultaneously, the power of the cross-flow pump varies randomly.

M5:Classic wave cross-flow mode

One or several pumps can be operated simultaneously, press  and  to increase or decrease the flow rate from F30 to 100. Press and hold  to set the frequency.

5. MAINTAINING

1. Clean the pump regularly to ensure that it remains in optimum working order.
2. If water is on the controller, wipe it off immediately with a dry cloth so it cannot penetrate the controller.
3. Remove the deposits in the pump by turning the basket counterclockwise to open and clockwise to lock.
4. Use a soft cloth to clean the blades and remove any dirt deposits in the pump.
5. This device has been designed for indoor aquariums and must not be used for any other purpose. Ensure that the controller and the adapter never get into the water.

6.TROUBLE SHOOTING

Error code	Fault	Solution
Er01	The controller is over current	Abnormal operating current; check whether the pump is short-circuited or the controller is damaged
Er02	The controller is over temperature	Ensure that the controller is not exposed to sunlight or high temperatures
Er04	The pump is blocked	The impeller is malfunctioning. Clean the pump and impeller and verify that the impeller is clean and in good working order
Er05	Controller is over voltage	Check the input power supply voltage
	Controller is under voltage	

7.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.

8.PACKING LIST

1x Wave maker pump (an inside magnetic holder is included)
1x Controller
1x DC Adapter
1x Outside magnetic holder
1x User manual

9.CONTACT INFORMATION

E-mail: service@hygger-online.com

Website: www.hygger-online.com