

AQUATOP EXCLUSIVE 1 + 1 EXTENDED WARRANTY

The additional 1 Year Extended Warranty applies when you REGISTER online with Aquatop. Register your Extended Warranty at www.aquatop.com. Save your receipt for warranty coverage.

Note: Extended warranty is available for qualifying products. See www.aquatop.com for a list of qualifying products.

- 1.0. Terms and Conditions of Guarantee.
- 1.1. Aquatop warrants to the purchaser, for 1 Year from date of original purchase through an Authorized Aquatop Reseller, to repair or replace goods where fault is found due to defective materials or faulty workmanship and where goods do not operate in accordance with the instructions.
- 1.2. All claims for repair or replacement must be made at place of purchase.
- 1.3. The original and dated Proof of Purchase (receipt) must be supplied with all goods claims. Please also provide this Guarantee where possible.
- 1.4. All goods subject to claim under Guarantee should be prepared for transportation in the original packaging or other comparable packaging which offers the same degree of protection.
- 1.5. Where goods are repaired or replaced under Guarantee, these goods are Guaranteed for the remainder of either the original Guarantee or Extended Guarantee period.
- 1.6. Where claims on inspection reveal goods are in normal working order, Aquatop will request reimbursement of all reasonable costs incurred.

WARRANTY LIABILITY DISCLAIMER

In no event will Aquatop® be liable for any consequential or incidental damages, including but not limited to, lost sea life, personal injury, property damage, equipment damage, lost profits, lost wages, lost savings, lost income, etc., arising out of the use of any Aquatop products.

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V1 /2023



FORZA DC WAVE MAKER PUMP MANUAL V1/2023

AQUATOP®

FORZA

DC WAVE MAKER PUMP



OWNER'S MANUAL



INTRODUCTION

Thank you for purchasing the Aquatop FORZA Wave Maker Pump. This product has an ergonomic design and is easy to use, install, and maintain. In order to better use this product and for user safety, please read this manual carefully before use, and keep it for future reference.

READ ALL SAFETY INSTRUCTIONS BEFORE USE

1. WARNING

Before using this product for the first time, read this instruction manual and be familiar with the product. To use the product correctly and safely, you must follow the relevant safety tips. For safety reasons, children and adolescents under the age of 16, and those who cannot identify potential danger or have not mastered the instructions for use should not be permitted to use this product.

NOTE:

1. Do not use voltage and frequency other than the specified 120v 60Hz.
2. Do not leave the product idle or remove from the water for more than 5 minutes. When the product is running, it should be completely immersed in water to ensure a proper degree of cooling of the motor. Do not expose the product to the surface of the water, as that will cause permanent damage to the wave pump motor.
3. This product is suitable for use in freshwater or marine applications. Do not use the product in flammable liquids, acidic liquids or corrosive liquids.
4. This product can work in a clean water environment with a water temperature ranging from 39°F to 95°F. Operation beyond this range will damage the product.
5. Do not lift the product directly with the power cord, as this may damage the power cord or cause it to be pulled off.
6. If the power cord of the product is damaged, discontinue use.
7. The product controller cannot be placed in water or in a humid place. The controller is not waterproof. Do not place the controller in a long-term dark space, as the night mode function will not operate properly.

TROUBLESHOOTING:

Note: Always disconnect the product plug from the power source before troubleshooting.

FAULT	REASON	SOLUTION
Unable to start pump	<ul style="list-style-type: none">• No power in outlet• Motor damaged• Controller damaged	<ul style="list-style-type: none">• Check the power supply• Replace motor• Replace controller
Weak water flow	<ul style="list-style-type: none">• The rotor blade is stuck• Clogged inlet or outlet	<ul style="list-style-type: none">• Clean rotor blades• Clean the inlet or outlet
Pump shuts off after a short run	<ul style="list-style-type: none">• Water is too dirty• Water is too hot	<ul style="list-style-type: none">• Perform a partial water change• Maximum water temp is 95°F

WARRANTY:

AQUATOP 1-YEAR LIMITED WARRANTY

Products are guaranteed by AQUATOP® Aquatic Supplies to the original purchase against defective material and workmanship under normal use for a period of 1 year from the date of the original purchase through an Authorized Aquatop Reseller.

Products have no warranty if:

- 1.) The product has been serviced, modified or tampered with by anyone other than AQUATOP Aquatic Supplies,
- 2.) The product has been abused or damaged (including broken or cracked bulbs), and/ or
- 3.) The product has been transported without proper packaging,
- 4.) The product was purchased from an Unauthorized Reseller.

Note: All sales from Amazon and Ebay (regardless of seller) do not qualify for any warranty coverage.

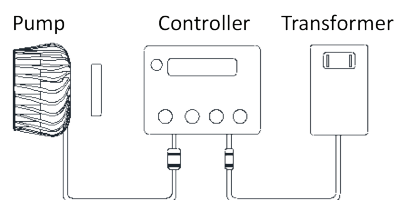
Please see www.aquatop.com for more information.



MAINTENANCE & CLEANING:

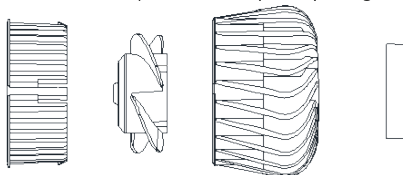
1. Before performing any maintenance on the product, always disconnect the power plugs of all equipment in the water.
2. Cleaning: First, disconnect the wire connection between the product and the controller. Disassemble the front cover of the product, and then take out the rotor assembly inside. Place the main part of the pump head and related parts in clean water and use a soft brush to clean them slowly. After cleaning, re-install the product according to the instruction manual.
3. During the maintenance and cleaning process, never immerse the product connection plug in water.

PRODUCT ASSEMBLY ILLUSTRATION:



Parts drawing of water pump:

Front Cover Impeller Pump Body Magnetic Mount



Warning:

There are powerful magnets behind the main unit of the water pump and in the magnetic mount. Be careful not to magnetically attract them together directly. Because the product has a strong magnetic attraction, it requires a strong external force to separate them after becoming attached. When not in use, replace it into the packing box.

INTRODUCTION TO USAGE AND FUNCTIONS:

For a single pump the wave pump enters a periodic gap. The pump will cycle run-stop-run-stop.

For two wave pumps at the same time, the master wave pump and the slave pump work in opposite directions to reinforce the wave pattern with the master cycling run-stop-run-stop while the slave pumps cycles stop-run-stop-run.

- A. Change the flow by adjusting the flow gear. Gears 01-20, the higher the gear value, the greater the water flow.
- B. The run and stop times are the same, that is, running for 1 minute and stopped for 1 minute. Timing is adjusted by the frequency value button, Fre:01-Fre:99 with the display value unit indicating the number of minutes. That is, Fre:01 means 1 minute, and Fre:99 means 99 minutes.

Button/Action:



Flow gear adjustment

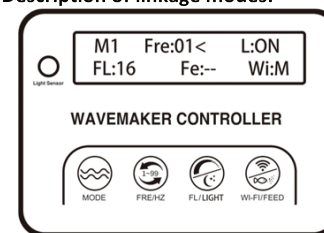


Frequency adjustment



Linkage mode adjustment

4. Description of linkage modes:



The linkage mode refers to using two wave-making pumps of the same model together in the fish tank. Through the linkage mode, one controller (master) can adjust the parameters and control the working modes of both wave-making pumps at the same time.

Button/Action:



Press the linkage mode button once:

On-screen Wi:N refers to the independent mode for the controller;

Press the linkage mode button once again:

On-screen Wi:M: Refers to the master control mode for the controller. That is, the Wi:M controller on the screen is the master controller and can adjust all parameters;

Press the linkage mode button once more:

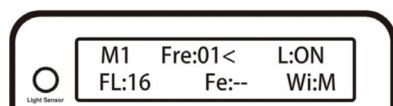
On-screen Wi:S: Refers to the slave mode for the controller. That is to say, the controller with Wi:S displayed on the screen is a slave controller, and the parameters cannot be adjusted, and the buttons are invalid. All parameter settings change with the adjustment settings of the master control.

Note:

When first setting up two pumps, put the two controllers close together so that the signals of the two controllers can clearly communicate with each other.



INTRODUCTION TO USAGE AND FUNCTIONS:



1. Display description:

Light Sensor: light control detection window

M1: Wave-making modes: M1-M6, six wave-making modes;

Fre: frequency value: 01-99, 99 files are available;

L: ON Night Mode: ON to start, OFF to stop

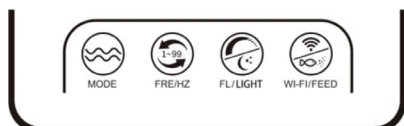
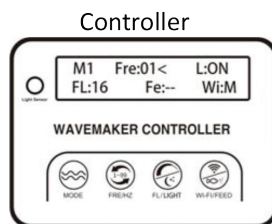
FL: Flow gear: 01-20, 20 gears are available;

Fe: Feeding mode: -- off, feeding state turns off pump for 10 minutes

Wi: linkage mode: N independent mode, M master control state, S slave control state

Note:

30-second screen saver function: within 30 seconds, if no button is pressed, the LCD screen will turn off. When any button is pressed, the screen will turn on first, then button operation will become effective once the screen is on.



2. Key operating instructions:

Button	Instruction
	Wave-making mode buttons: M1-M6, six different wave-form modes.
	Frequency value selection button: 01-99, there are 99 frequency files to choose from
	Shared button for flow gears and night mode Flow gears: 01-20, 20 gears are available to select; Night mode: Press and hold for 3 seconds, the screen will display L:NO and the night mode will be turned on. Press and hold for 3 seconds, the screen will display L:OFF to turn off the night mode. Note: Through light control sensing, the device automatically enters the night mode state, changes to M1 constant current mode for the wave-form, the flow gear is automatically adjusted to the lowest gear value of 01. The pump automatically returns to the original setting states upon exiting the night mode
	Shared button for feeding mode and wireless linkage Feeding mode: Long press for 3 seconds: Fe:10 is displayed on the screen. Enter feeding mode, the machine stops working for 10 minutes. The on-screen display starts counting at 10:00. Long press again for 3 seconds: Fe:-- is displayed on the screen. Turn off the feeding mode, the pump runs Linkage mode: Click: Screen Displays Wi:N: Standalone Mode Press once again: Wi:M: active state is displayed on the screen, Master status Click again: Screen displays Wi:S: Slave status

INTRODUCTION TO USAGE AND FUNCTIONS:

3. Wave Form Modes:

M1: Constant Current Mode

In the constant current mode, the flow rate can be changed by adjusting the flow gear. Gears 01-20, the higher the gear value, the greater the water flow.

Flow gear adjustment button:

M2: Classic Wave Mode

Instantaneous flow increase followed by instantaneous decrease with continuous switching. Change the flow by adjusting the flow gear. Gears 01-20, the higher the gear value, the greater the water flow.

Flow gear adjustment button:

M3: Classic Reverse Wave Pattern Mode

The classic reverse wave pattern mode is suitable for using two wave-making pumps at the same time. The wave-making effect is the same as the M2 classic wave-making mode, but the master wave pump and the slave wave pump work in opposite directions. The wave-making effect data adjustment of the wave-making pump is the same as that of M2, and the flow gear and frequency value are adjusted so the 2 pumps work together to reinforce the pattern.

Button/Action:

Flow gear adjustment

Frequency adjustment

Linkage mode adjustment

M4: Sine Wave Flow Mode

Sinusoidal flow mode: The flow increases slowly, and then decreases slowly after reaching the maximum. The speed of change is affected by the frequency value. The frequency value can be set in the range of 01-99, the smaller the value, the faster the change; the greater the value, the slower the rate of change.

Frequency value adjustment:

M5: Turbulence Mode

Turbulent flow mode: The flow changes randomly within a certain range. The speed of change speed is affected by the frequency value. The frequency value can be set in the range of 01-99, the smaller the value, the faster the change; the greater the value, the slower the rate of change.

Frequency value adjustment:

M6: Dual Pump Tidal-Action Mode

Dual pump tidal-action mode is best suited for two wave-making pumps at the same time, but it can also be used with a single wave-making pump.