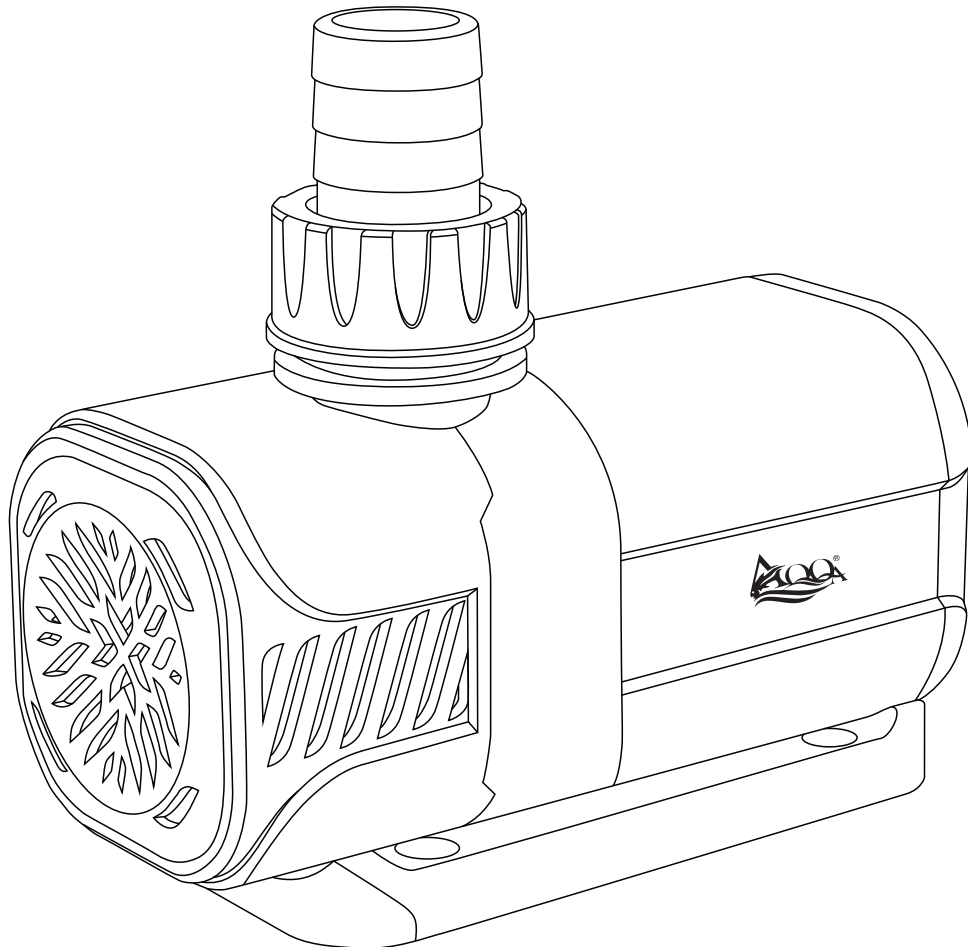




# AQ096 USER MANUAL

AQQA Aquarium Variable Frequency Water Pump



**The simple and practical variable frequency water pump from AQQA is flexibly suitable for many applications in the aquarium industry.**

## ATTENTIONS

- Do not connect to an outlet that exceeds the rated voltage of the pump.
- Do not operate the pump in acids or flammable liquids.
- Do not operate at water temperatures above 35 °Celsius.
- Disconnect the power supply before maintenance.
- Never lift the pump by the cable to avoid damaging the cable connection or sheath.
- When the pump is in operation, it must be entirely covered by water to ensure the cooling of the pump body.
- The pump's performance will significantly reduce if the water intake is blocked. Please raise the pump slightly so that less dirt is sucked in.

## 1. PRODUCT FEATURES

1. The frequency conversion technology makes this pump work more efficiently than other submersible pumps with the same power consumption. It is quiet, energy-saving, safe, and reliable and has a long service life.

2. This device is a multifunctional 3in1 AC frequency conversion pump that can draw in water from the side and bottom and can also be operated on dry land after slightly modifying to the front cover.

3. The pump has three operating modes: flow, feeding, and wave.

4. If the pump is in the water and has been connected to the power supply, it initially runs at the highest power level in the factory setting. The controller can set the flow rate and power using the "+" and "-" buttons.

The flow mode can be set in stages 1-20, with an adjustable flow rate of 1 to 20.

The wave mode can be set in levels 1-20, with an adjustable wave speed of 1 to 20.

The feeding mode can be set from 05 to 60 minutes. To program the feeding mode, proceed as follows: Press the "⏻" button to activate the mode. The LCD shows "-10" - the feeding function is activated- the "-" display flashes. The pump stops so that you can feed your fish in peace. The time for the feeding mode can be set as required; the default setting is 10 minutes. The shortest possible time that can be set is 5 minutes; the longest is 60 minutes. Each "+" button press adds 5 minutes, and each "-" button press subtracts 5 minutes. The pump resumes the previous running program once the feeding time has elapsed. If you want to switch the pump back on during feeding, manually press the "⏻" button to return to the previous program.

5. The pump has a memory function. If you set any speed and press the pause button, the pump will resume this speed after a power failure.

6. If the pump is out of the water for 10 seconds or the water level is below the minimum for this period, the pump switches off automatically. After 4 seconds, it automatically resumes its operation - this cycle does not end. Please avoid these situations to prevent damage to the pump.

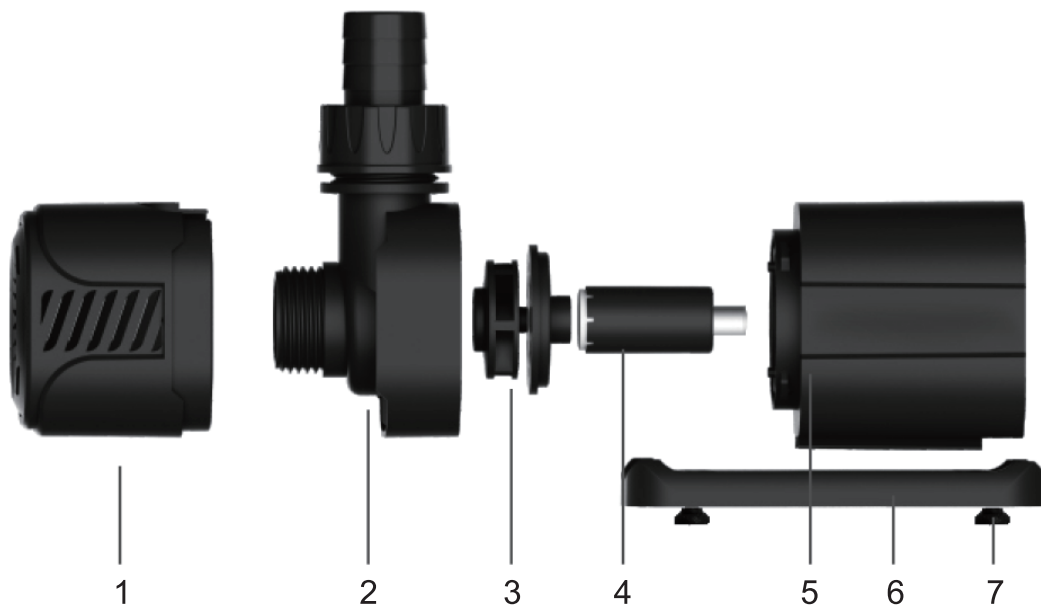
7. The pump's water inlet is easy to remove for cleaning.
8. The water outlet is threaded and allows you to connect it to different pipe diameters. This makes the pump suitable for different pipework.
9. The robust ceramic shaft, which is wear- and rust-free, ensures a long service life. The pump is protected against dry running and clogging.
10. The motor with the copper coil is an energy-efficient high-performance pump, has a noise-reduced design, and is waterproof with protection class IP68.
11. The water pump housing features high-quality matt ABS plastic. All models are equipped with 4 rubber suction cups.
12. Perfect for aquariums, ponds, fountains, waterfalls, hydroponic systems, irrigation systems and water features.
13. Suitable for freshwater and saltwater.

## 2. PRODUCT PARAMETERS

Model	AQ096-25W	AQ096-40W	AQ096-60W	AQ096-80W	AQ096-100W
Voltage & Frequency	US STANDARD: AC110-120V/60Hz EU/UK/AU STANDARD: AC220-240V/50Hz				
Power	25W	40W	60W	80W	100W
H-Max	9.8ft (3.0m)	13ft (4.0m)	17.3ft (5.3m)	21.3ft (6.5m)	23.0ft (7.0m)
Flow Rate	800GPH (3050L/H)	1350GPH (5100L/H)	2040GPH (7720L/H)	2650GPH (10030L/H)	3600GPH (13600L/H)
Nozzel Size	0.7" /0.9" /1.2" 18mm/24mm /31mm	0.7" /0.9" /1.2" 18mm/24mm /31mm	0.7" /0.9" /1.2" 18mm/24mm /31mm	0.7" /0.9" /1.2" 18mm/24mm /31mm	0.7" /0.9" /1.2" 18mm/24mm /31mm
Cord Length	12.7ft (3.87m)	12.7ft (3.87m)	12.7ft (3.87m)	12.7ft (3.87m)	12.7ft (3.87m)
Pump Dimensions	5.6*2.68*2.76" 14.2*6.8*7.0cm	5.6*2.68*2.76" 14.2*6.8*7.0cm	7.17*3.07*3.27" 18.2*7.8*8.3cm	8.35*3.46*3.66" 21.2*8.8*9.3cm	8.35*3.46*3.66" 21.2*8.8*9.3cm

### 3. PRODUCT DIAGRAM

#### a. Product components



1. Front cover

2. Housing

3. Impeller

4. Rotor

5. Housing

6. Base

7. Suction cup

1. Side suction



Side suction front cover

2. Bottom suction



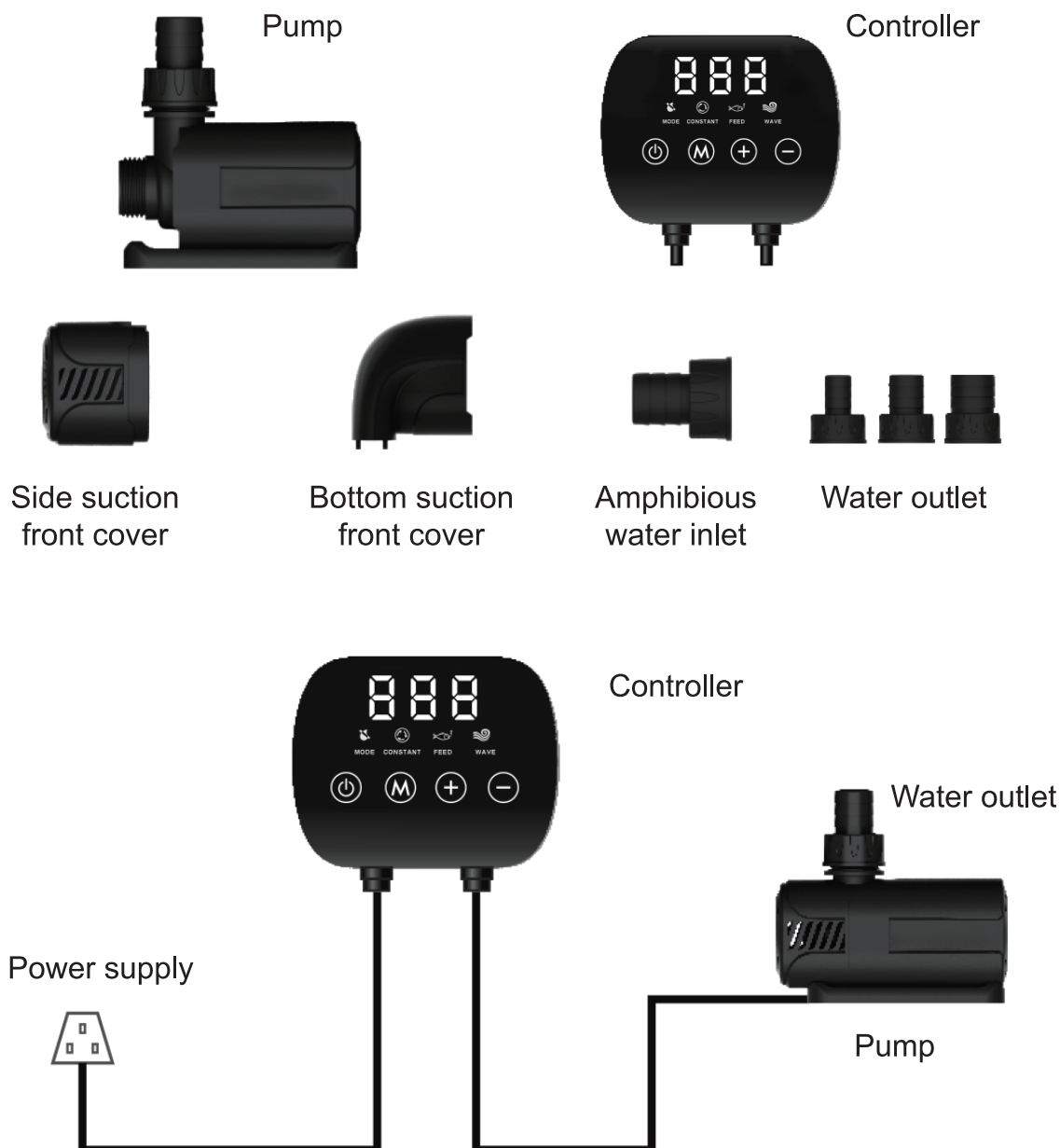
Bottom suction front cover

3. Amphibious



Amphibious water inlet

## b. Accessories list



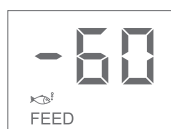
## c. Instructions

"M" button - operating mode selection  
(switches between flow/feeding/wave mode)



### Constant flow mode F01-F20

20 speeds adjustable



### Feeding mode 05-60

You can set the feeding time from 5 to 60 minutes; during this time, the pump rests. After the time has elapsed, the pump automatically resumes its work.



### Wave making mode P01-P20

Simulates the wave impact with 20 adjustable frequencies.



## 4. ERROR CODE EXPLANATION

E1: Lack of water/dry running (automatic pump stop to protect against dry running).

E3: The pump has a phase or line fault (more than one of the three motor lines is not connected; to remedy this, please restart the pump).

E4: Short circuit or overvoltage of the pump (the voltage of the power supply is too high or too low).

E5: Motor fault or blockage of the rotor according to code V66.

## 5. PACKING LIST

1x User manual

1x Water Pump

6x Water outlet

2x Cap nut

4x Rubber suction cup

1x 3M adhesive

2x Waterproof ring

2x Front cover (Side suction/Bottom suction)

## 6. WARNING

To guard against injury, basic safety precautions should be observed including the following:

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; return the pump to an authorized service facility for service or discard the pump.

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 not intended to be wet.

C. Do not operate the pump if it has a damaged cord or plug, if it is malfunctioning or if it is 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 aquarium stand and tank to one side of a wall mounted receptacle to prevent water from dripping onto the receptacle or plug. A “drip loop”, shown in the figure below, should be arranged by the user for each cord connecting the pump to the receptacle. The “drip loop” is the part of the cord below the level of the receptacle, or the connector. If an extension cord is used, to prevent water traveling along the cord and coming in contact with the receptacle. If the plug or receptacle 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 receptacle.

## **POWER CORD**



## **DRIP LOOP**

3. Close supervision is necessary when the pump is used near children.
4. This pump is not allowed to use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the pump by a person responsible for their safety.
5. To avoid injury, do not contact moving parts or hot parts and so on.
6. Always unplug the pump from the outlet when not in use, before putting on or taking off parts, and before maintenance or placing hands in the water. Never yank the cord to pull plug from outlet. Grasp the plug and pull to disconnect.
7. 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.
8. Do not install or store the pump where it will be exposed to the weather or to temperatures below freezing. This pump is suitable for use in water temperatures 40~ 95°F.
9. Do not submerge more than 3ft of water depth.
10. Do not run dry or out of water.
11. Only use in freshwater or saltwater, do not use the pump in other liquids.
12. Make sure the pump is securely installed before operating it.
13. Read and observe all the important notices on the pump.
14. If an extension cord is necessary, a cord with a proper rating should be used. A cord rated for less amperes or watts than the appliance rating may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
15. The pump is intended FOR HOUSEHOLD USE ONLY. Do not use or mount this pump in such a way that the top vents are restricted or blocked. These vents are necessary to avoid overheating and ensure safe operating temperatures.



16. Due to all the pumps need to be professional water testing by manufacturer before shipment, if the water pump you received with a little water, please don't worry, the little water was left from professional water testing, it is a normal phenomenon. It is new and normal pump.

17. SAVE THIS USER MANUAL.

## 7. MAINTENANCE AND TROUBLESHOOTING

To clean the pump, proceed as follows:

1. Remove the water intake cover, the sealing cover and the impeller.
  2. Use a small brush or a jet of water to remove any debris that may be present.
- If the pump is not working, please check the following points.
- Check the power supply. Please try to connect the pump to another socket to ensure it has power. Do not plug in the pump until it is submerged.
  - Check the water outlet and tube of the pump for any blockage caused by dirt.
  - Check the water inlet cover to ensure it is not clogged by debris.
  - Remove the water inlet cover and check the impeller. Turn the rotor to ensure that there is no damage or blockages.

**Note:** If the pump is to be operated indoors, the socket outlet should be equipped with a leakage current protection device, and the leakage current must not exceed 30 mA (The installation of the leakage current protection device must be carried out by the consumer).

## 8. DISPOSAL

Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary. This product must not be disposed together with the domestic waste. This product has to be disposed at an authorized place for recycling of electrical and electronic appliances. By collecting and recycling waste, you help save natural resources, and make sure the product is disposed in an environmentally friendly and healthy way.





## 9. AQQA LIMITED MANUFACTURER'S WARRANTY

We offer the end user of this product a manufacturer warranty of 2 years from the date of sale if this product was purchased from an AQQA<sup>®</sup>-authorised specialist dealer

Retain receipt for any future warranty claim. Conditions apply. Products are guaranteed by AQQA<sup>®</sup> Aquatic Supplies to the original purchaser against defective material and workmanship under normal use for a period up to 2 years from the date of the original purchase through an Authorized Dealer. Refer to the User Manual included with your product for specific warranty details.

### **Products have no warranty if:**

1. The product has been serviced, modified or tampered with by anyone other than AQQA<sup>®</sup> 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.

### **WARRANTY LIABILITY DISCLAIMER**

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

#### **1.0. Terms and Conditions of Warranty.**

- 1.1. AQQA<sup>®</sup> warrants to the purchaser, for 2 years from date of original purchase through an Authorized AQQA<sup>®</sup> Reseller, free to repair or replace parts 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. Only the direct purchaser is entitled to warranty claims against us and these are not transferable without our consent.
- 1.4. The original and dated Proof of Purchase (receipt) must be supplied with all goods claims. Please also provide this Guarantee where possible.
- 1.5. Wear parts (e.g.: seals, suction devices, axes, pump wheels, light sources, pH electrodes, filter media, such as filter cartridges, as well as UVC burners), glass damage and the opening of the product, as well as structural changes or the use of non-AQQA<sup>®</sup> original parts are excluded from the guarantee.
- 1.6. 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 and AQQA<sup>®</sup> must incur no costs from the shipment.
- 1.7. Where claims on inspection reveal goods are in normal working order, AQQA<sup>®</sup> will request reimbursement of all reasonable costs incurred.
- 1.8. Warranty claims do not exist in the case of only insignificant deviations from the agreed or customary condition or usability, e.g. insignificant deviations in colour, dimensions and/or quality or performance characteristics of the products.
- 1.9. Our warranty obligation extends only to the delivery of newly manufactured products. Unless otherwise agreed, used products are sold as seen, excluding any warranty.

## 10. CONTACT INFORMATION

Company Name: Shenzhen Aiku Pet Technology Co., Ltd  
Add: Room 501, No.20, Lane 1, Lishipai, Dafapu Community  
Bantian Street, Longgang District, Shenzhen Guangdong. 518000  
Email: [service@aqqapet.com](mailto:service@aqqapet.com)  
**Website:** <http://www.aqqapet.com>



@AQQA Aquarium



Company: E-CrossStu GmbH  
Address: Mainzer Landstr.69, 60329  
Frankfurt am Main  
Email: E-crossStu@web.de  
Nr.202504727907



Company Name: YH Consulting Limited  
Address: C/O YH Consulting Limited Office  
147 Centurion House, London Road  
Staines-upon-Thames, Surrey, TW18 4AX  
Email: H2YHUK@gmail.com  
Tel: +44 07514-677868  
No.202504725766



**MADE IN CHINA**