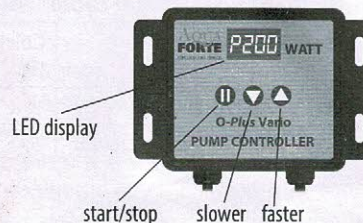


*AquaForte pumps are carefully inspected and tested to ensure both safety and operating performance. However, failure to follow the instructions and warnings in this manual may result in pump's damage and/or serious injury. Be sure to read and save this manual for future reference.*

### Control and Panel Function:

#### 1. LED display and controller key instructions

LED display indicates power, start/stop and fault code. The 3 touch control buttons are used for start/stop, slower, faster.



#### 2. Operating instructions

After connected with pump, the controller will go to the last selected operation, panel is shown on LED. Touch the start/stop button, the pump will stop working, the display shows "\_ OFF". Touch the start/stop button again, the pump will resume working. Led shows normal display "PXXX" where "P" is short for Power, XXX stands for the wattage. You can change the speed of the pump from 30% to 100% ("F030" to "F100" where F stands for Flow). After one second the display goes back to the PXXX display to show the wattage the pump consumes in this selected speed.

#### 3. Key Lock Function

Turn on the power, press the ▼ or ▲ button for three seconds until the LED light flash for two times, the controller is now locked.

Similarly, press the ▼ or ▲ button for three seconds again, the LED indicator light ashes for two times, the controller is unlocked again.

#### 4. Screen saver mode

Turn on the power, and do not touch any touch control button for more than 25 seconds, the LED changes to micro bright, the controller goes in screen saver mode; the display returns to normal when you press any button.

#### 5. Data memory function

The memory function ensures that the pump goes back to the last selected speed.

#### 6. Error code and description

The Error code starts flashing to indicate an operation error:

Er01: Abnormal Working current;

Er02: Controller overheating;

Er03: Pump idling;

Er04: The impeller stops running;

Er05: Abnormal Working voltage.

Do not place the pump deeper than 1.5 meters under water.

Note: for outdoor use, the power socket must be installed with the leakage current protecting device, and the leakage current shall not exceed 30mA.

**Performance parameter table:**

Model	Voltage	Controller (W)	Consumption (W)	Flow (m <sup>3</sup> /h)	Max. Head (M)
10 000	AC220-240V 50/60Hz	100	15-85	4 - 9	5.0
20 000	AC220-240V 50/60Hz	200	34-187	9 - 20	7.0

**Warning:**

- Do not connect to any voltage other than that shown on the rating label of the pump.
- Do not pump flammable liquids. The appliance is only intended to be used in ponds/aquarium.
- The maximum operation depth is 1.5m.
- Do not use with water above 35°C
- The supply cord cannot be replaced. If the cord is damaged the appliance should be scrapped.
- The pump is not intended for use by young children or infirm persons without supervision.
- To protect against the risk of electrical shock, do not immerse the plug in water or other liquid.
- This appliance is not intended for 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 appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

**Caution:**

Always disconnect from electrical outlet before cleaning, maintenance and handling the pump. Don't operate without water. Do not lift the pump by holding the power cord. Do not use the pump in liquids having a temperature exceeding 35°C. Use the pump only in freshwater. Please use the pump only when it is completely submerged in water.

**Do not use the pump in swimming pools!**

**Installation:**

The pump is only suited for wet applications. Use without water (dry running) will result in irreparable damage. Under water, the pump must take in as clear as possible water.

Never place the pump in a muddy area or on sandy pond bottoms. Put the pump on a small pedestal (e.g. a stone). Ignoring these instructions can cause blockage of the strainer house around the pump. Heavily polluted water will cause problems for the rotor to run smooth and the pump performance will decrease. In a worst case scenario the rotor will totally block and the pump will burn out. Complete blockage of the pump strainer house will prevent motor cooling which can cause burn outs.

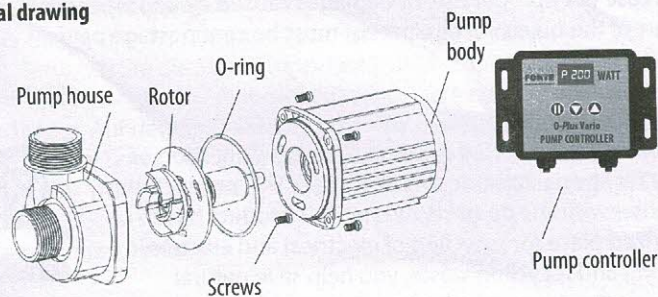
#### Operation:

A clogged or dirty intake screen will greatly reduce performance.

If the pump is used on a dirty surface, raise it slightly to reduce the amount of debris contacting the intake. If less flow is desired, adjust the regulator on the sealing cover to restrict the flow. Do not let the pump run when not submerged in water. That may damage the pump. Always submerge the pump first, and then plug in the electrical outlet. At the beginning, it probably can't pump water, because there is air in the pump and the tube. Don't worry about it. Please pull out and insert electrical outlet several times, it will work normally.

#### Maintenance:

##### Technical drawing



Unplug before cleaning. To clean the pump, remove the back cover, sealing cover and the impeller. Use a small brush or stream of water to remove any debris.

#### Caution:

The pump shaft cannot be removed!

If the pump fails to operate, check the following:

- Check the outlet and try another outlet to ensure the pump is getting electrical power.
- NOTE: Always disconnect from electrical outlet before handling the pump.
- Check the pump outlet and tubing for kinks and obstructions. Algae may block them, please flush out the algae with a garden hose.
- Check the inlet to ensure it is not clogged with debris.

- Remove the pump inlet to access the impeller area. Turn the rotor to ensure it is not broken or jammed.
- Monthly maintenance will prolong your pump's life.
- NOTE: Ensure that the electrical cord loops below the electrical outlet to form a "Drip Loop". This will prevent water from running down the cord into the electrical outlet.
- When you find calcium/timescale deposits inside the motor house this implicates that the pumps becomes too warm during use! Calcium/lime scale expands above temperatures of 55°C. With sufficient flow the pump is water cooled and cannot reach these temperatures. If, however, the head pressure is too big (too small pipe system, maximum pump head too big, etc) the flow will be reduced which causes insufficient cooling and by this, calcium deposits. In a worst case scenario the calcium/timescale layer will get so thick that it blocks the rotor and the motor will burn out. **DAMAGE CAUSED BY CALCIUM/ LIME SCALE IS NOT COVERED BY WARRANTY!** You can remove calcium/lime scale deposits with commercial de-scaling products or vinegar.

**Limited warranty:**

This product is guaranteed for a period of 24 months from date of purchase for material or manufacturing defects.

Guarantee consists in guaranteed substitution of defective parts. Guarantee is considered to void in case of improper use, or damages caused by improper handling or negligence on the part of the buyer. All equipment must be sent postage paid.

**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 environmental friendly and healthy way.



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