



## AQUASURGE® ADJUSTABLE FLOW POND PUMP



**AquaSurge® 8000-15000**  
**Adjustable Flow Pond Pump**  
Item #45009AU

**AquaSurge® 15000-30000**  
**Adjustable Flow Pond Pump**  
Item #45010AU



220-240V  
50Hz



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# AquaSurge® Adjustable Flow Pond Pump

**Thank you for choosing the AquaSurge® Adjustable Flow Pond Pump.** At Aquascape, we connect people to water the way nature intended. Since 1991, we've been creating and field-testing water features in order to provide you with the most reliable products and best value in the water gardening industry.

AquaSurge® Adjustable Flow Pond Pumps are submersible pumps made for continuous use in ponds, Pondless® Waterfalls, and other water feature applications. Asynchronous motor technology provides superior reliability and energy efficiency for years of reliable performance. The included Smart Pump Receiver has an integrated control panel making it easy to control your pump with the Aquascape Smart Control App. This instruction manual will guide you through the proper setup and recommended maintenance procedures to ensure long-term effectiveness.



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## ☎ Contact Us

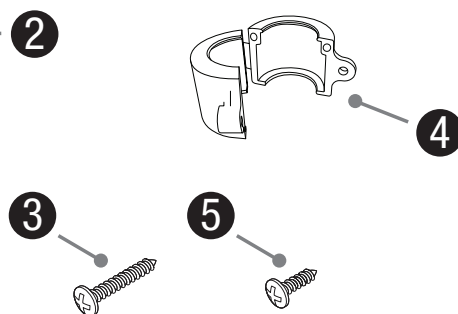
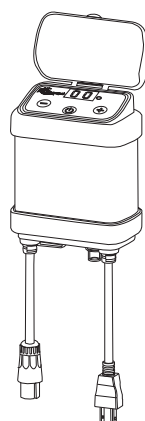
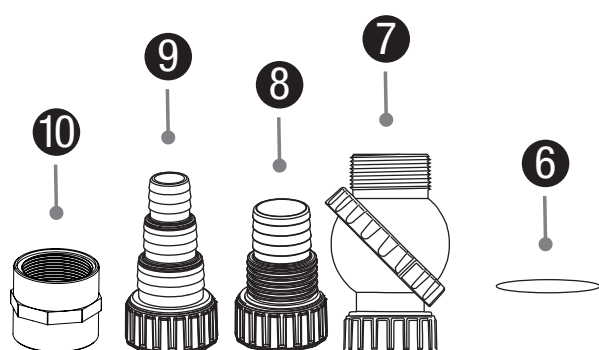
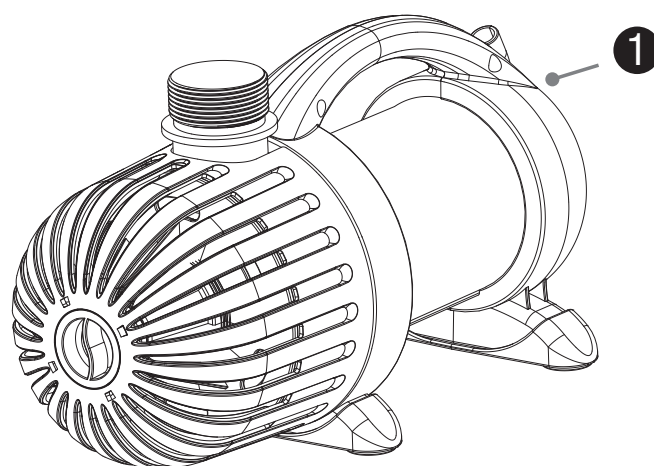
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| 4.       | Cable Connector Restraint                          |
| 5.       | Cable Connector Restraint Screw                    |
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| 9.       | Multi-hose Adapter 1", 1.25", 1.5" (25, 32, 38 mm) |
| 10.      | 1.5" (38 mm) Female Adapter                        |



## Safety Information



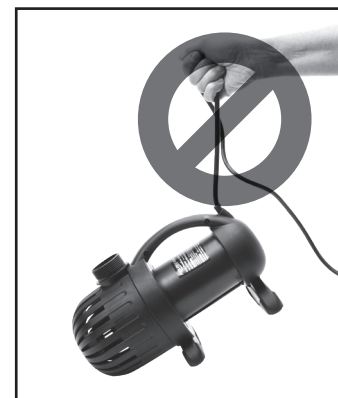
**WARNING:** Risk of electric shock – This pump has not been approved for use in swimming pool or marine areas



**WARNING:** To provide continued protection against risk of electric shock, connect to properly grounded, Residual Current Device (RCD) outlets only, using the following guidelines:

- (A) Have a qualified electrician install a properly grounded receptacle outlet, acceptable for outdoor use and protected from snow and rain.
- (B) Inspect cord before using.
- (C) Do not use an extension cord.
- (D) Any wiring of pumps should be performed by a qualified electrician to ensure code compliance and user safety.
- (E) Unplug pump at receptacle outlet when not in use or before removal from pond.

- (F) To reduce risk of electrical shock, all wiring and junction connections should be made per local codes. Requirements may vary depending on usage and location.
- (G) The power cable should be protected at all times to avoid punctures, cuts, bruises, and abrasions.
- (H) Never handle power cords with wet hands.
- (I) Do not remove cord and strain relief. Do not connect conduit to pump.
- (J) Do not use power cable to lift pump.



- Always operate the pump fully submerged, or if using in-line, ensure a constant source of fresh water. Failure to do so may overheat the pump and cause it to fail, voiding the warranty.
- Use only in fully assembled state, paying particular attention to ensure that both the outer and inner filter screens are attached to the pump. Failure to operate the pump without the filter screen will allow large debris to enter the pump and cause the pump to fail, voiding the warranty.
- Do not wear loose clothing that may become entangled in the impeller or other moving parts.
- Keep clear of suction and discharge openings. DO NOT insert fingers into pump with power connected.
- Do not pump hazardous materials or liquids, such as oil, saltwater, or organic solvents.
- Do not block or restrict discharge.
- Products returned must be cleaned, sanitized, or decontaminated, as necessary, prior to shipment to

ensure that employees will not be exposed to health hazards in handling said material. All applicable laws and regulations shall apply.



**IMPORTANT:** Aquascape, Inc. is not responsible for losses, injury, or death resulting from a failure to observe these safety precautions, misuse or abuse of pumps or equipment.

### AquaSurge Pond Pump Specifications

- Input voltage: 240V AC
- Input frequency: 50 Hz
- Submersible pump
- For outdoor or indoor use
- Thermally protected
- This pump has been evaluated for use with water only
- Input amps and wattage

### AquaSurge Adjustable Flow Pond Pump Specs

| Model Number            | 8000-15000                                 | 15000-30000 |
|-------------------------|--------------------------------------------|-------------|
| Maximum Flow Rate (LPH) | 16 000                                     | 30 000      |
| Maximum Head Height (m) | 5.1                                        | 8           |
| Motor Type              | Asynchronous                               |             |
| Volts                   | 240                                        |             |
| *Wattage                | 215                                        | 660         |
| Hertz                   | 50                                         |             |
| Power Cord Length       | 10 m                                       |             |
| Discharge Hose Diameter | 1" x 1.25" x 1.5" x 2" (25, 32, 38, 50 mm) |             |

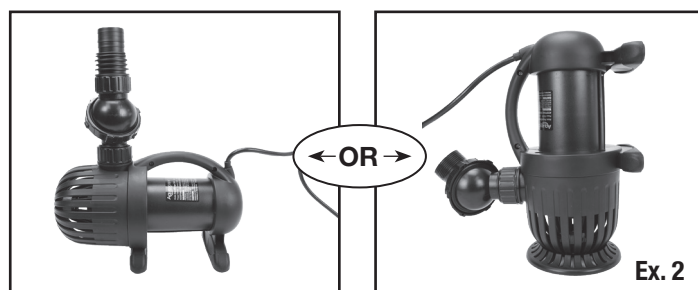
\*Wattage range dependent on remote control flow setting

## Installation

- Do not submerge the AquaSurge Adjustable Flow Pond Pump directly into the pond. This pump is designed to be placed inside a skimmer, Pondless® Waterfall Vault, sump or basin. Please consider Aquascape AquaForce® solids-handling pumps (Ex. 1) if your application does not have a filter and requires a pump that can be placed directly into the pond.
- The AquaSurge Adjustable Flow Pond Pump is designed to be installed horizontally on the vibration and noise reducing rubber feet. The pump can also be mounted



vertically, if needed, by attaching the filter stand ring on the outer filter screen, included with your pump (Ex. 2).

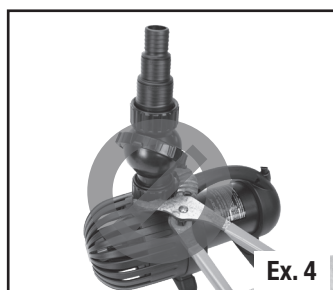
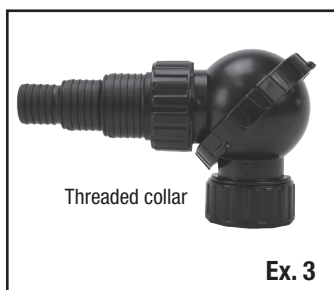


- The AquaSurge includes a wide assortment of fittings. Select the appropriate fitting or fittings needed for your application.

**NOTE:** If using a check valve, please follow the installation instructions included with the check valve.

- The threaded collar (Ex. 3) on the fittings enables the AquaSurge pump to be installed and removed without the need for any tools.

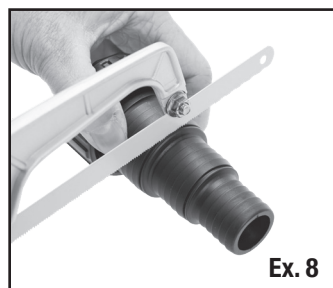
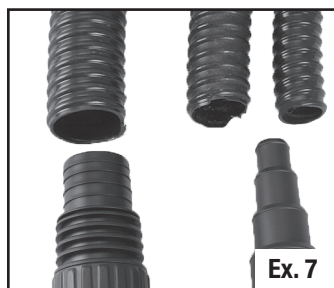
**NOTE:** Do not use tools to install the fittings to the pump discharge (Ex. 4). Fittings only need to be hand-tight.



- The versatile rotational ball outlet allows you to adjust the pump discharge to the perfect position for your water feature setup. Loosen the threaded collar (Ex. 5) on the rotational ball and rotate to desired position, then tighten. A flat rubber gasket (Ex. 6) is included to ensure a leak-free connection. Make sure this flat rubber washer is in place before installing the fittings.



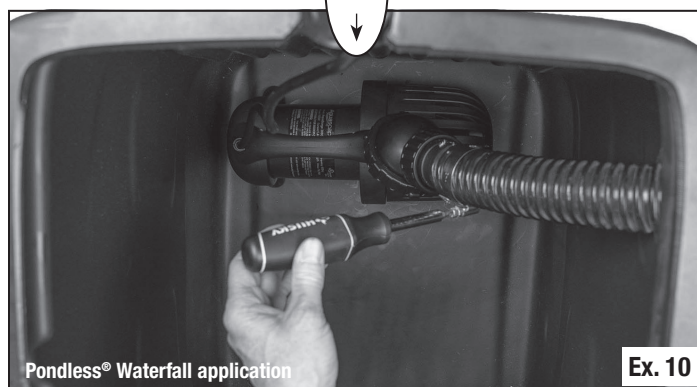
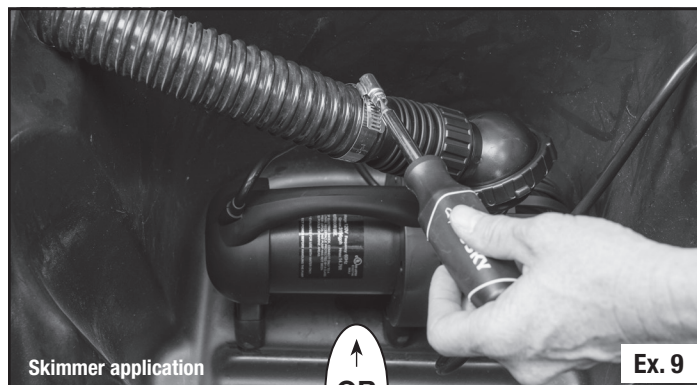
- Install the correct multi-hose adapter for the diameter of the tubing you are using (Ex. 7).
- If using a pipe diameter larger than the smallest section of the multi-hose adapter, trim off the smaller sections to avoid flow restriction (Ex. 8).



- In some instances the tubing may be tight or difficult to connect to the fitting. If this is the case, we recommend heating the hose with a hair dryer or dipping the hose for a few seconds in very hot water. Lubrication can also be used; we recommend silicone grease or olive oil. Put the fitting on the pump before attaching the tubing/hose. Once

the fitting is in place, attach the tubing/hose onto the fitting with a twisting motion.

- Lower the pump into the skimmer (Ex. 9) or Pondless® Waterfall Vault (Ex. 10) and rotate the rotational ball output to line up with the tubing. Attach tubing to the fitting and then tighten a hose clamp (not included) to secure tubing onto the fitting.



↑  
OR  
↓

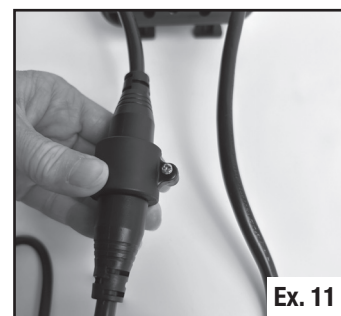
## IN-LINE OPERATION

- The AquaSurge pump can also be operated in-line by attaching a pipe connected directly from the pond (or aquarium) pump inlet. In this case the water must be pre-filtered of debris to prevent damage to the pump. The pump must NEVER be operated dry without water. This pump is water-cooled and requires water flowing through the pump at all times to operate correctly and stay cooled.
- Failure to provide constant access to water may overheat the pump and cause it to fail, voiding the warranty.

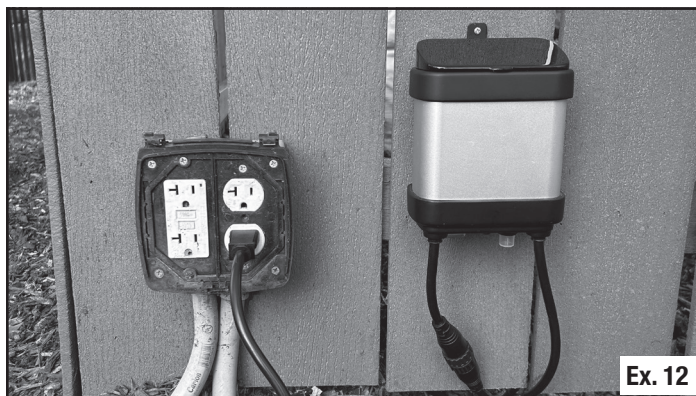
## SMART PUMP RECEIVER SETUP

- Mount the receiver above the ground on a post, fence, or wall. Avoid installing this device in direct sunlight. Install in a cool shaded area, if possible.
- Connect the pump to the Smart Pump Receiver.

**NOTE:** Cable Connector Restraint included to further secure the connection (Ex. 11).



- Plug the Smart Pump Receiver into an outdoor-rated RCD, and the unit will automatically enter pairing mode (Ex. 12).



**NOTE:** The blinking blue light on the face of the unit indicates the receiver is in pairing mode and ready to be connected.

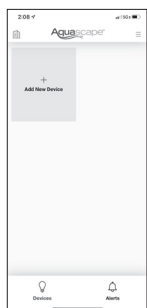
- Download the Aquascape Smart Control App (available on iOS or Android App Store).
- Open the Aquascape Smart Control App and click 'Create New Account' (Ex. 13).

**NOTE:** If you already have an account, login with your username and password.

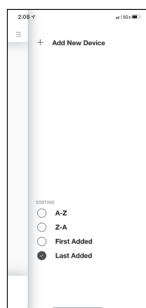
- Once logged in, click the three dashes in the upper right-hand corner of the home screen (Ex. 14).
- Click 'Add New Device' (Ex. 15).



Ex. 13



Ex. 14



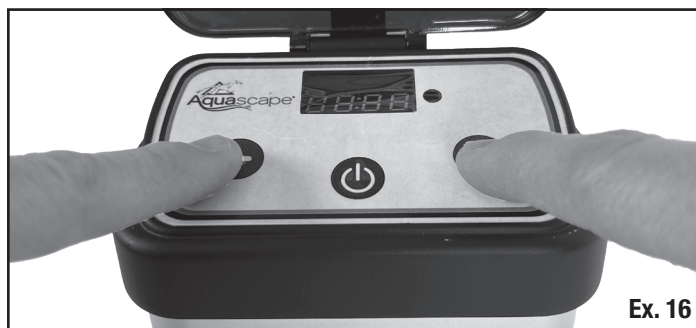
Ex. 15

- Continue to follow the onscreen instructions to connect your device.

**NOTE:** Adequate WiFi coverage is required (2.4g networks supported).

- Continue to follow on-screen instructions to complete the pairing process.
- To reset the device to factory defaults, first turn the unit off by pressing the power button, then press and hold the + and - buttons for four seconds and release when the LED display lights up completely (Ex. 16).

**NOTE:** This process must be completed within one minute of plugging the unit into power.



Ex. 16

- The receiver includes a switch that allows the pump to be operated in the two following modes (Ex. 17).



Ex. 17

**OFF** - Operated by Aquascape Smart Control App or remote control

**ON** - Bypass control, and operate at full flow-rate

- In the event of a power loss, the pump will revert to the last flow rate setting.

**NOTE:** The receiver includes an internal circuit breaker. This will shut down the unit to protect the receiver from high voltage, pump shorts, etc. If engaged, the reset button, located at the bottom, will automatically pop out. If this occurs, replace the pump and press the reset button.

## General Maintenance

- It is recommended to inspect your pump on a regular basis to make sure it is functioning properly.

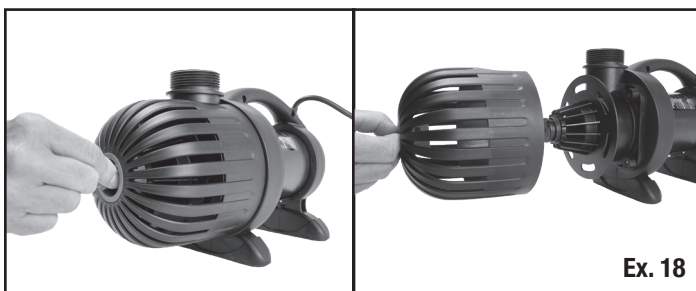
**NOTE:** Always disconnect the power before performing maintenance on the pump.

### FILTER SCREEN CLEANING

- A filter screen clogged with debris will reduce the water flow rate.
- Remove any existing debris from the outside of the filter screen.
- In situations with excess debris buildup, the pump screens will need to be removed for a more thorough cleaning.

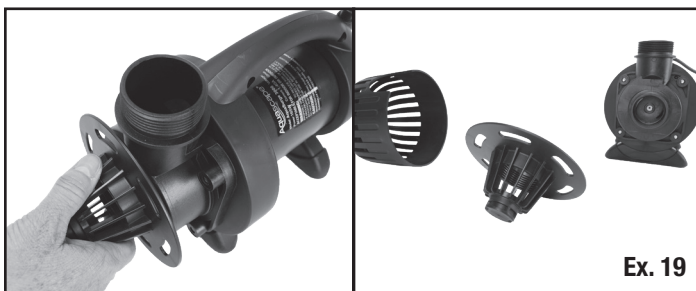
**NOTE:** Do not remove the outer or inner filter screens while operating the pump, as failure to do so may cause the pump to fail, voiding the warranty.

- The outer screen can be removed by twisting the locking knob counter-clockwise and pulling the screen off (Ex. 18).



Ex. 18

- The inner filter screen can be removed by unscrewing counterclockwise (Ex. 19).

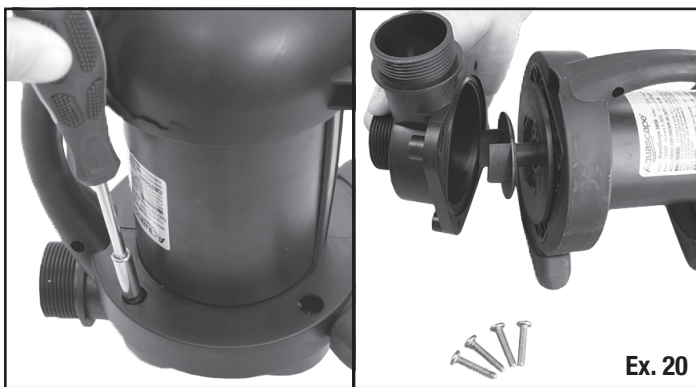


Ex. 19

**NOTE:** Be sure to replace the screens before operating the pump, as failure to do so may cause the pump to fail, voiding the warranty.

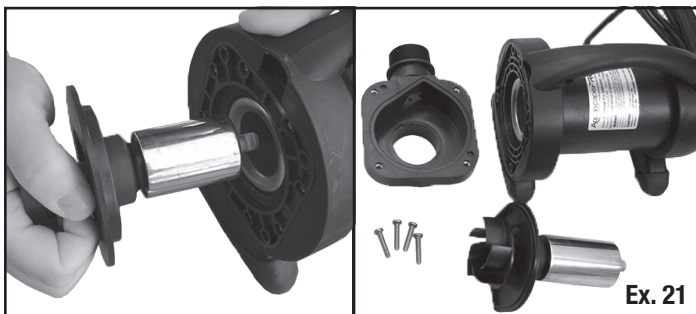
### IMPELLER/ROTOR CLEANING

- Remove the four screws to disconnect the water chamber cover (Ex. 20).



Ex. 20

- Remove the impeller by pulling gently (Ex. 21).



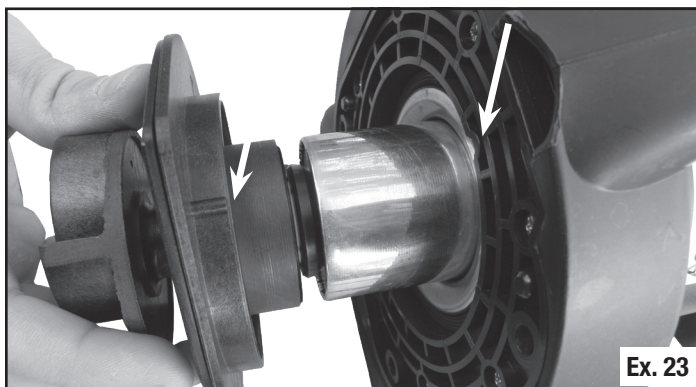
Ex. 21

- Clean the impeller and internal pump body with Aquascape Pump Cleaner Maintenance Solution (#91143), using a sponge or soft-bristle brush (Ex. 22).



Ex. 22

- Re-install the impeller, making sure the gasket is in place and the raised key on the impeller flange is aligned with the matching notch in the face of the pump flange (Ex. 23).



Ex. 23

### Troubleshooting

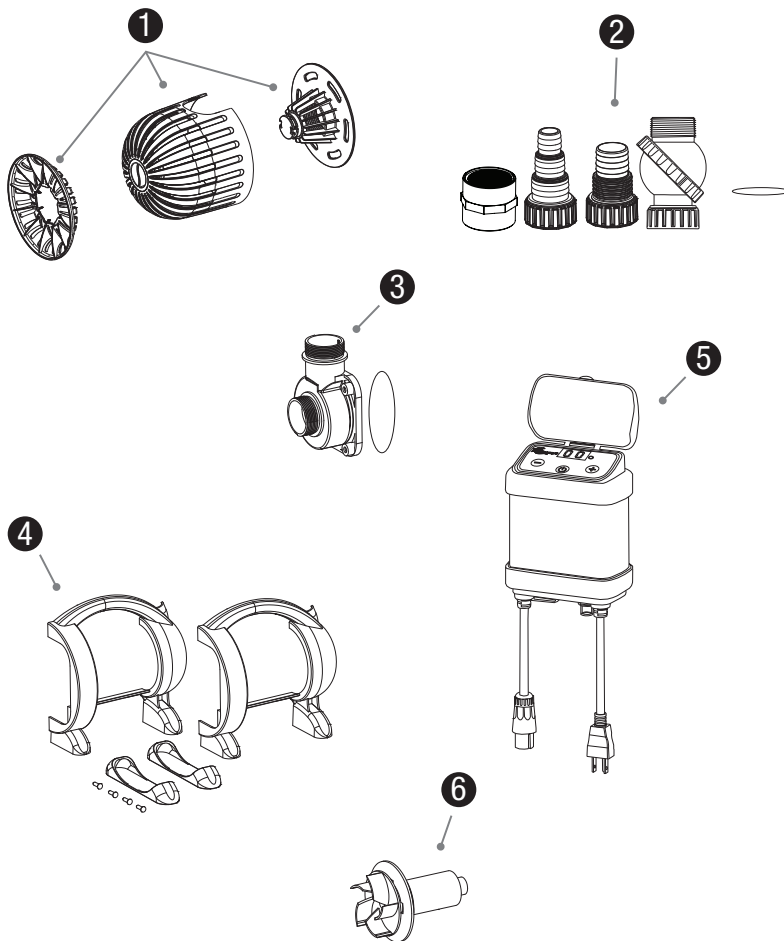
- Reduced water flow
  - Check the outer and inner filter screens
- Pump hums but doesn't push water
  - The pump or plumbing may be clogged
    - Make sure nothing is blocking the intake
    - Clean the inner and outer screens
    - Clean the impeller rotor assembly and internal pump body
  - Make sure the pump is receiving the correct voltage
  - Make sure the impeller blades are not worn or damaged
- Pump not working
  - Residual Current Device (RCD) may have tripped
  - The pump is not receiving the correct voltage
- Device won't pair
  - Make sure the outlet is receiving power
  - Make sure you have adequate wireless coverage to connect the device
  - Reset the device to factory defaults
  - Make sure the Residual Current Device (RCD) is not tripped
- Receiver displays an E1 message
  - This means the input voltage going to the receiver is greater than 142 volts. Have an electrician inspect the outlet you have the receiver plugged into

- Receiver displays an E2 message
  - Receiver is overheating - make sure the receiver is in a shady or cooler area away from direct, intense sunlight
- Receiver turns off with reset on bottom triggered
  - Replace pump and engage reset button

## Replacement Parts

| AquaSurge 8000-15000 Adjustable Flow Pond Pump Replacement Parts |                                                                                       |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| No.                                                              | Item Number/Description                                                               |
| 1.                                                               | 91064 – AquaSurge® 4000/5000 (G2) Intake Screen Kit (fits 15000/20000)                |
| 2.                                                               | 91065 – AquaSurge (G2) Discharge Fitting Kit                                          |
| 3.                                                               | 91067 – AquaSurge® 4000/5000 (G2) Water Chamber Cover & O-Ring Kit (fits 15000/20000) |
| 4.                                                               | 91069 – AquaSurge® 4000/5000 (G2) Pump Handle & Feet Kit (fits 15000/20000)           |
| 5.                                                               | 45064AU – Smart Pump Receiver                                                         |
| 6.                                                               | 45016 – AquaSurge® 2000-4000 Adjustable Flow Impeller Kit (fits 8000-15000)           |

| AquaSurge 15000-30000 Adjustable Flow Pond Pump Replacement Parts |                                                                                                  |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| No.                                                               | Item Number/Description                                                                          |
| 1.                                                                | 45011 – AquaSurge® 4000-8000 Adjustable Flow Intake Screen Kit (fits 15000-30000)                |
| 2.                                                                | 91065 – AquaSurge (G2) Discharge Fitting Kit                                                     |
| 3.                                                                | 45014 – AquaSurge® 4000-8000 Adjustable Flow Water Chamber Cover & O-Ring Kit (fits 15000-30000) |
| 4.                                                                | 45012 – AquaSurge® 4000-8000 Adjustable Flow Pump Handle & Feet Kit (fits 15000-30000)           |
| 5.                                                                | 45064AU – Smart Pump Receiver                                                                    |
| 6.                                                                | 45017 – AquaSurge® 4000-8000 Adjustable Flow Impeller Kit (fits 15000-30000)                     |



## Warranty Information

### 3 YEAR WARRANTY

Aquascape warrants that the AquaSurge Pump will be free of manufacturing defects for three years from date of purchase. Proof of purchase required. Warranty does not cover damage resulting from electrical supply problems, improper wiring, lightning, negligent handling, misapplication, misuse, or lack of reasonable maintenance or care. Warranty does not cover parts subject to normal wear, such as impellers. This product should only be operated in fresh water, completely submerged, without corrosive chemicals like chlorine or bromine. All products that include plumbing (tubing, pumps, check valves) need to be properly drained and winterized otherwise the warranty is null and void. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

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