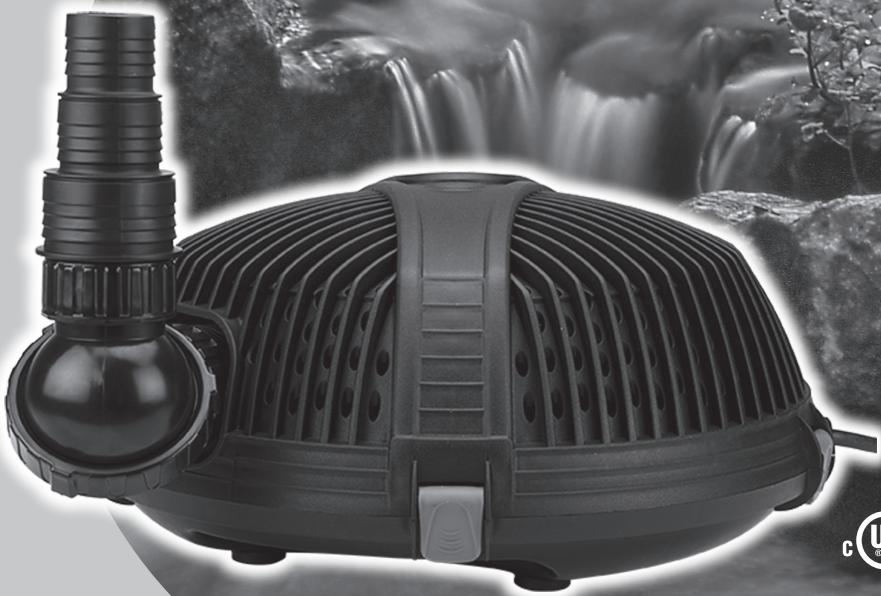
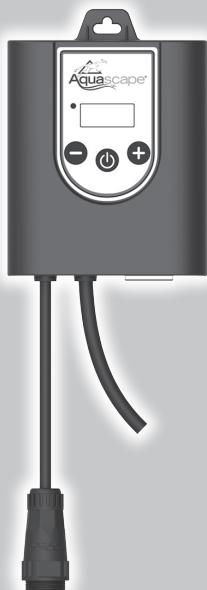




AQUAFORCE® ADJUSTABLE FLOW SOLIDS-HANDLING POND PUMP

**AquaForce® 4000-8000
Adjustable Flow
Solids-Handling Pond Pump**
Item #91104



aquascapeinc.com



Thank you for choosing the AquaForce® Adjustable Flow Solids-Handling Pond Pump

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.



AquaForce® Adjustable Flow Solids-Handling Pond Pump

AquaForce Adjustable Flow Solids-Handling Pond Pumps are submersible pumps made for continuous use in ponds, Pondless® Waterfalls, and other water feature applications. The pump's protective pre-filter cage allows it to be placed directly into the pond or water feature. Asynchronous motor technology provides superior reliability and energy efficiency for year after year of reliable performance. The included Smart Control Receiver includes an integrated control panel and makes it easy to control your pump with the Aquascape Smart Control App.

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✉ Contact Us

For more information about our company or products, please visit our website at aquascapeinc.com or call US (866) 877-6637 CAN (866) 766-3426.

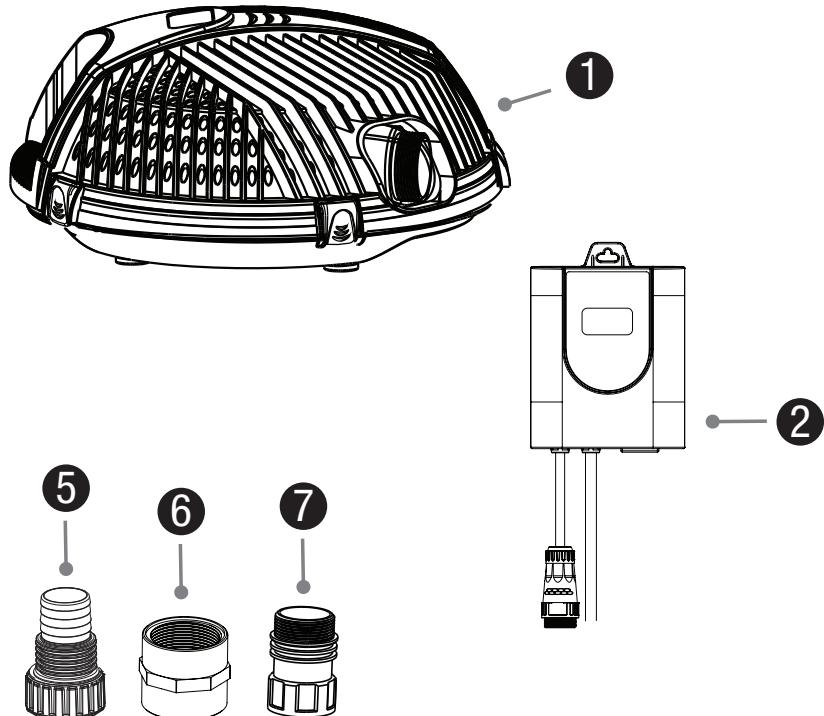
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Contents

No.	Description
1.	AquaForce Adjustable Flow Pond Pump
2.	Smart Control Receiver
3.	Multi-Hose Adapter 25, 32, 38 mm (1", 1¼", 1½")
4.	Rotational Ball Output 38 mm (1½")
5.	Multi-Hose Adapter 38, 50 mm (1½", 2")
6.	Female Adapter 38 mm (1½")
7.	38 mm (1½") FTP x 38 mm (1½") MPT



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 extension cords.
- (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. Failure to do so will overheat the pump and cause it to fail, thus voiding the warranty. DO NOT OPERATE DRY.
- Use only in fully assembled state, and be sure that both the upper and lower cage screens are completely snapped together. Failure to operate the pump without the filter cage closed will allow large debris to enter the pump, causing the pump to fail and 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. This will 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.

AquaForce 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 freshwater only
- Input amps and wattage

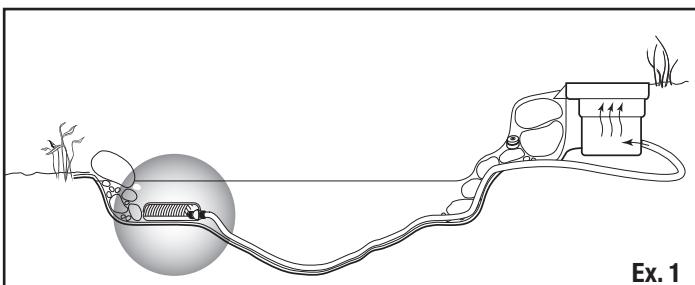
AquaForce Adjustable Flow Solids-Handling Pond Pump Specs

Model Number	4000-8000
Maximum Flow Rate (LPH)	30,000
Maximum Head Height (m)	8
Motor Type	Asynchronous
Volts	240
Wattage	660
Hertz	50
Power Cord Length (m)	10
Multi-Hose Fitting Diameters (mm)	25, 32, 38, 50

*Wattage range depending on remote control flow setting

Installation

- The AquaForce pump is designed to be submerged directly in the pond. To maximize pond circulation, locate the AquaForce pump as far as possible from the water entering back into the water feature (Ex. 1).



Ex. 1

- It is recommended that the pump NOT be positioned in the deepest area of the pond. This will protect the fish by preventing the pond from completely draining in the case of a leak in the plumbing or filter. Bricks or stones can be used, if needed, to raise the pump up off the bottom of the pond.
- The AquaForce includes a wide assortment of fittings. Select the appropriate fitting(s) needed for your application (Ex 2).



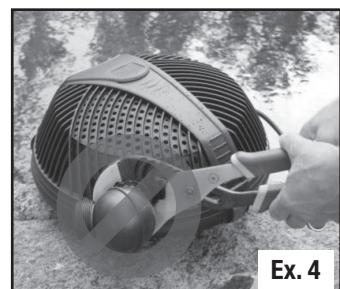
Ex. 2

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

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



Ex. 3

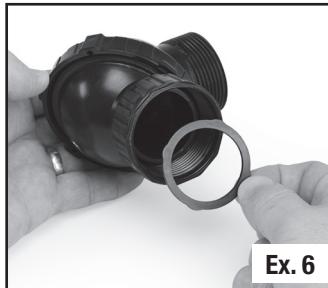


Ex. 4

- The extremely versatile rotational ball outlet provides you with the ability to adjust the pump discharge to the perfect position required by your water feature. Loosening the threaded collar allows you to rotate the upper half of the ball (Ex. 5). A flat rubber washer seal is included to ensure a leak-free connection. Make sure the flat rubber washer is in place before installing the fittings (Ex. 6).

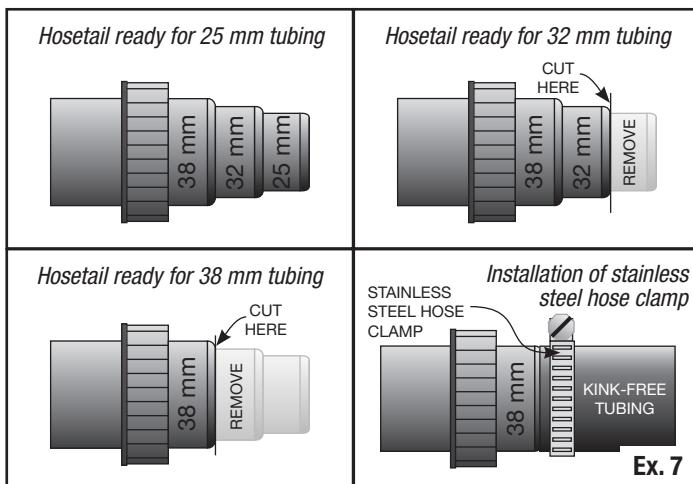


Ex. 5

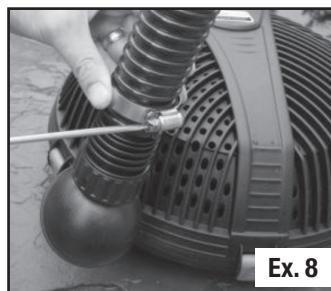


Ex. 6

- Install the right sized multi-hose adapter based on the diameter of the tubing you are using.
- 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. 7).



- In some instances the tubing may be tight and difficult to connect to the fitting. If this is the case, we recommend heating the hose with a hair dryer or dipping the hose in very hot water. Lubrication can also be used; we recommend silicone grease or olive oil. Put the fitting on the filter before attaching the tubing/hose. Once the fitting is in place, attach the tubing/hose onto the fitting with a twisting motion.
- Attach tubing to the fitting. If tubing is loose on fitting, use a hose clamp (not included) to secure tubing into the fitting (Ex. 8).
- Connect the other end of the pump tubing to the pond filter, such as a biological filter, waterfall spillway, or pressurized filter.



Ex. 8

SMART CONTROL 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 Control Receiver.
- Plug the Smart Control Receiver into an outdoor-rated Residual Current Device (RCD), and the unit will automatically enter pairing mode (Ex. 9).



Ex. 9

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. 10).

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. 11).
- Click 'Add New Device' (Ex. 12).
- Enter the WiFi network and password for the network to which the unit will connect (Ex. 13).



Ex. 10

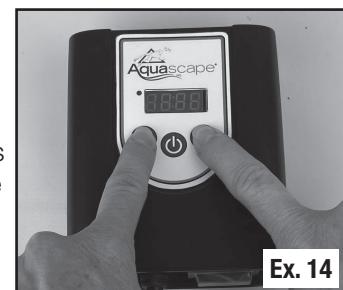
Ex. 11

Ex. 12

Ex. 13

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. 14).



Ex. 14

- The receiver includes a switch that allows the pump to be operated in the two following modes (Ex. 15).
 - Position 1 - Operated by Aquascape Smart Control App or remote control
 - Position 2 - 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.



Ex. 15

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.

PUMP CAGE CLEANING

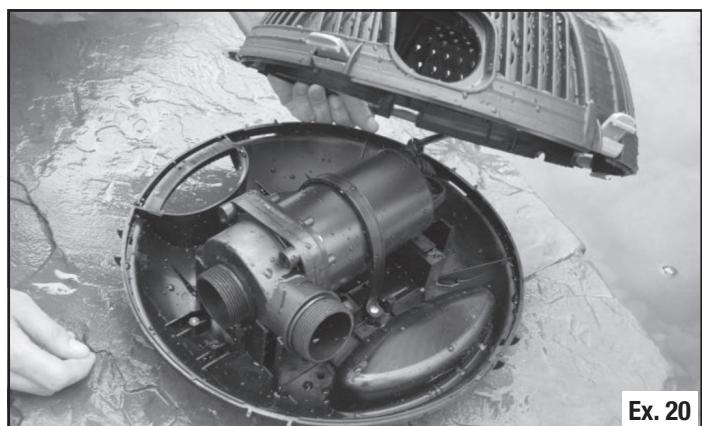
- A pump cage clogged with debris will reduce the water flow rate.
- Remove any existing debris from the outside of the cage (Ex. 18).



Ex. 18

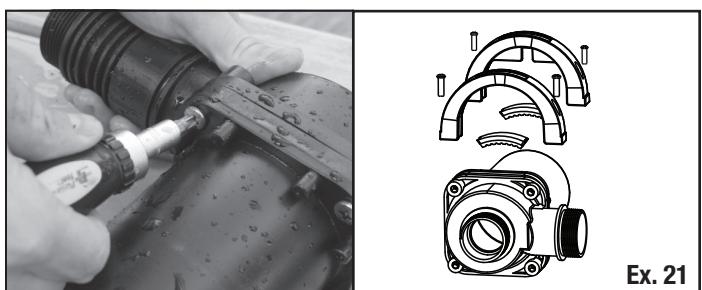
IMPELLER/ROTOR CLEANING

- In situations with excess debris build-up, the cage will need to be removed for a more thorough cleaning.

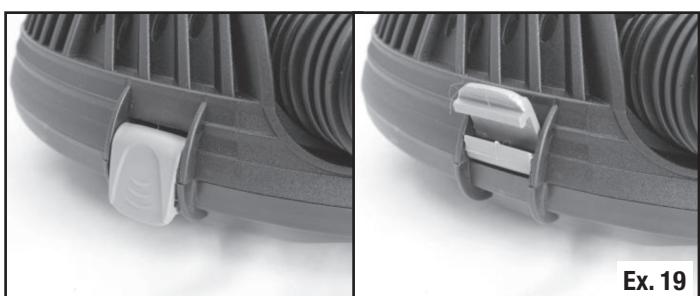


Ex. 20

- Remove the screws securing the pump to allow the pump to be lifted from the lower cage.
- Remove the four screws on the pump to disconnect the water chamber cover (Ex. 21).



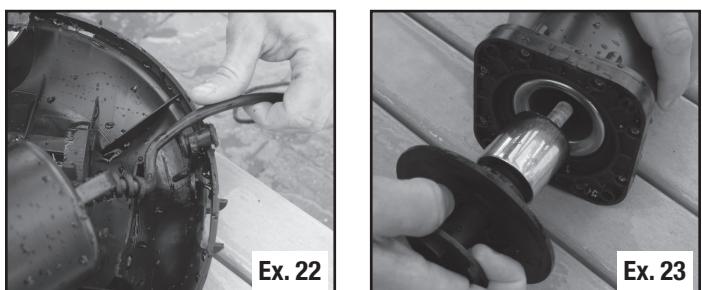
Ex. 21



Ex. 19

NOTE: For easier pump access, pull the power cord free from the strain relief (Ex. 22).

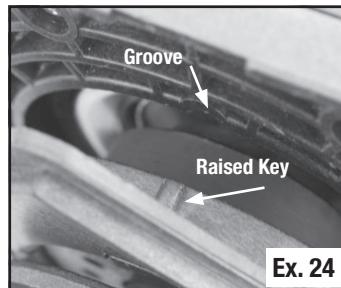
- Remove the impeller by pulling gently (Ex. 23)



Ex. 22

Ex. 23

- Clean the impeller and internal pump body with Aquascape Pump Cleaner Maintenance Solution (#91143), using a sponge or soft-bristle brush.
- Re-install the impeller, making sure the assembly is oriented correctly and the raised key on the impeller face plate is lined up with the groove in the pump housing (Ex. 24).



NOTE: Be sure to replace the cage and verify the cage is not broken before operating the pump, as failure to do so may cause the pump to fail, voiding the warranty.

Troubleshooting

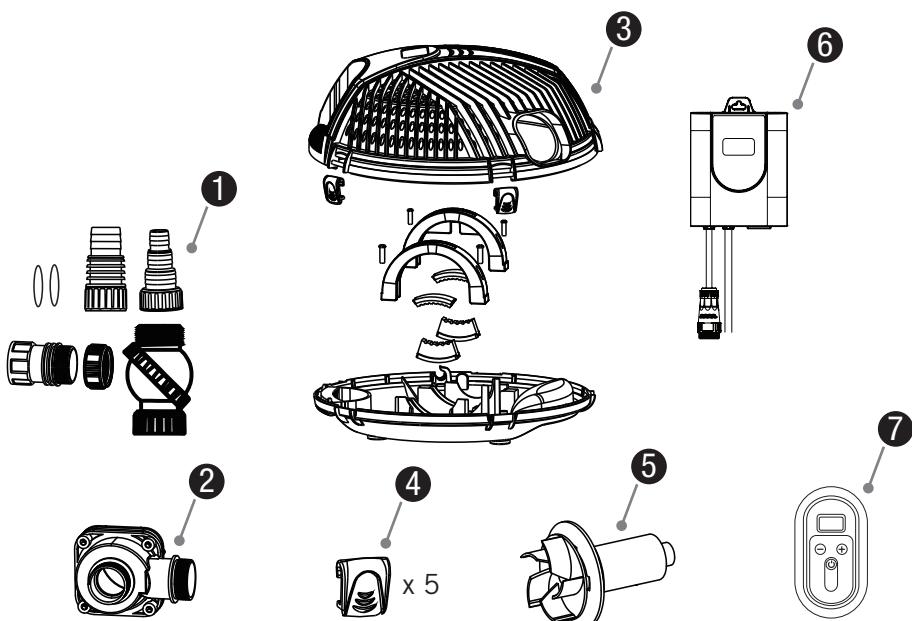
- Reduced water flow
 - The pump or plumbing may be clogged
 - Make sure nothing is blocking the intake
 - Clean the outer cage
 - Clean the impeller rotor assembly and internal pump body
- Pump hums but doesn't push water
 - The pump or plumbing may be clogged
 - Make sure nothing is blocking the intake
 - Clean the outer cage
 - 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

Replacement Parts

AquaForce® Adjustable Flow Solids-Handling Pond Pump Replacement Parts

No.	Item number/description
1.	91075 – AquaForce (G2) Replacement Pump Discharge Fitting Kit
2.	91077 – AquaForce 5000 (G2) Replacement Water Chamber Cover
3.	91096 – AquaForce 3600/5200 (G2) Adjustable Flow 4000/8000 (G2) Replacement Pump Cage Kit
4.	91079 – AquaForce (G2) Replacement Cage Clip Kit
5.	AquaForce Adjustable Flow Replacement Impeller Kit
6.	Smart Control Receiver
7.	45041 – Universal Remote for Adjustable Flow Pond Pumps



Warranty Information

3 YEAR WARRANTY

Aquascape warrants that the AquaForce® Adjustable Flow Solids-Handling Pond 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. If upon Aquascape's inspection, the pump shows evidence of a manufacturing defect, Aquascape's liability is limited, at Aquascape's option, to the repair of the defect, replacement of the defective product, or refund of the original purchase price. The warranty excludes costs of labor, removal of product, shipping and expenses related to the installation and re-installation of the product. All products that include plumbing (tubing, pumps, check valves) need to be properly drained and winterized otherwise warranty is null and void. No liability for loss or damage of any nature or kind, whether arising out of or from the use of the product, whether defective or not defective, is assumed by Aquascape, Inc. or its affiliates. Aquascape shall not be liable for any incidental, consequential or other damages arising under any theory of law whatsoever.

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or call us at US (866) 877-6637 CAN (866) 766-3426