



AQUAJET® POND PUMP

**AquaJet® 600
Pond Pump**
Item #91014

**AquaJet® 1300
Pond Pump**
Item #91015

**AquaJet® 2000
Pond Pump**
Item #91016

220-240V
50Hz



aquascapeinc.com



Thank you for choosing the Aquascape

AquaJet® 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.



AquaJet® Pond Pump

Create a stunning fountain with this all-in-one kit. Includes choice of three fountain heads. Also includes integrated diverter valve that can be used to supply water to a small waterfall, external filter, or spitting ornament. This combination of energy-efficient performance, and ease of maintenance, make this pump and fountain kit the ideal choice for discriminating pond owners.

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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.

Find us on:

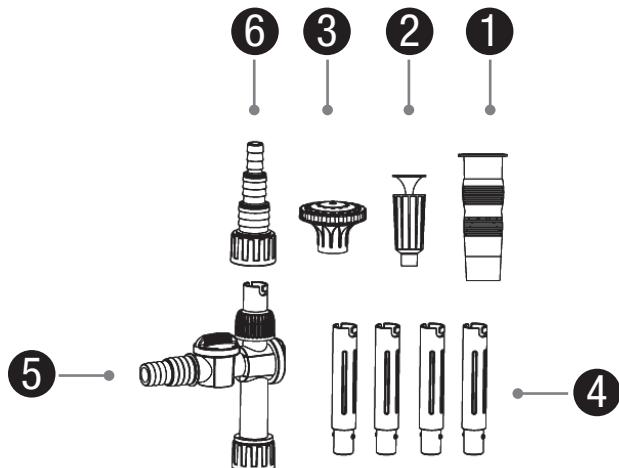
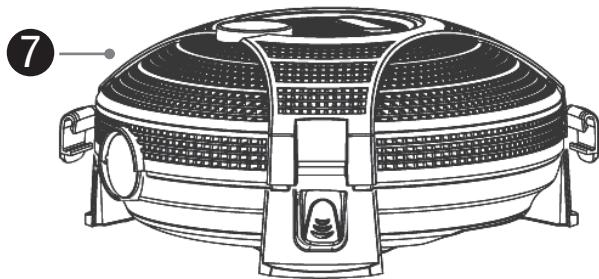


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Contents

No.	Description
1.	Foaming Jet Fountain Head
2.	Waterbell Fountain Head
3.	Daisy Fountain Head
4.	Fountain Riser Stem 19 mm (¾") O.D. X 89 mm (3.5") L (4)
5.	Divertor Valve
6.	Multi-Hose Adapter Hosetail (size varies by pump model)
7.	AquaJet Pond Pump

(Part varies per model. 1300 shown)



Safety Information



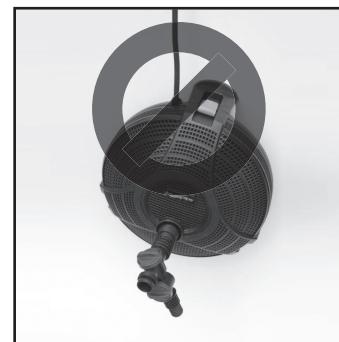
WARNING: Risk of electric shock – This pump has not been approved for use in swimming pool or marine areas



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 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 pump outlet.
- 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.

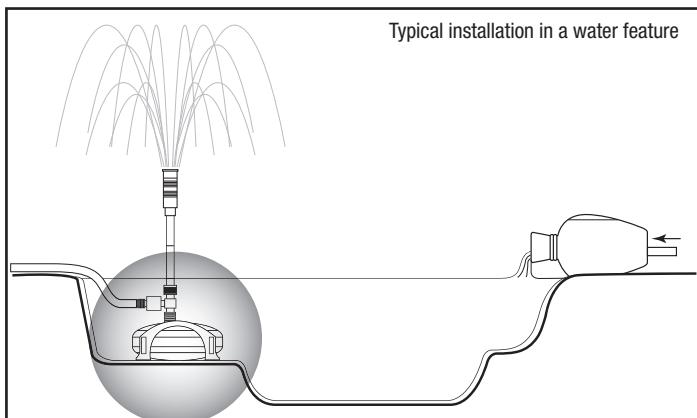
AquaJet® Pond Pump Specifications

- Input Voltage: 240V AC
- Input Frequency: 50 Hz
- Submersible pump
- For outdoor or indoor use
- Thermal protection
- Pump rated for use with water only
- Input current intensity and power in watts: See table below

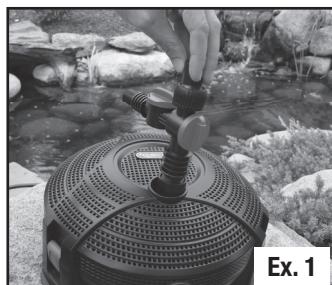
AquaJet Pond Pump Specs

Model Number	600	1300	2000
Pond Size Recommendation (LPH)	2,000	4,800	7,500
Maximum Fountain Height (Daisy Fountain) (m)	up to 1.95	up to 3.3	up to 5
Motor Type		Mag-Drive	
Volts		240	
Wattage	26	100	180
Hertz		50	
Power Cord Length (mm)		10	
Discharge Hose Diameter		with nozzle fountain heads	
Discharge Hose Diameter on Diverter (mm)		13, 19	

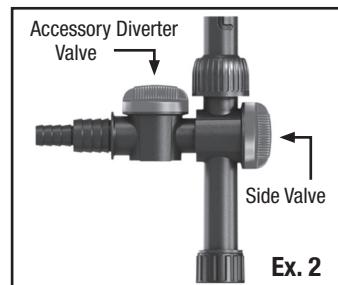
Installation



- Unpack the diverter valve and thread the collar clockwise directly onto the pump discharge male thread. Do not overtighten or use any tools (Ex. 1).
- The diverter valve has two flow-control valves (Ex. 2).
 - The accessory diverter valve controls water flow to any additional filters, fountains, or waterfalls.
 - Side valve controls water flow to attached fountain head.

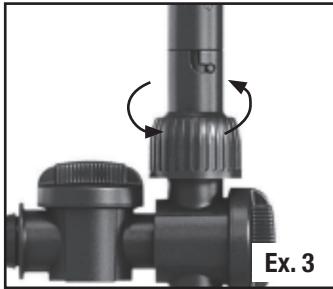


Ex. 1

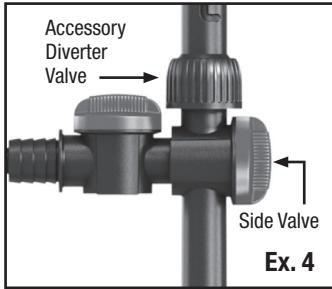


Ex. 2

- The side valve controls the fountain height, but the accessory valve will also have an effect on the fountain's height. As more accessory flow is desired the amount of water flowing to the fountain will diminish. Closing the accessory valve will maximize flow to the fountain head.
- Thread the riser stem base onto discharge. Riser stems can be added to the base stem as desired to increase the fountain height to the best level for your water feature and to compensate for different pond depths.
- Insert additional riser stems and lock into position (Ex. 3).
- Thread riser stem base onto discharge (Ex. 4).



Ex. 3



Ex. 4

- Install any one of the three fountain heads onto the top riser by simply pressing it over the end of the riser. It is held in place by friction (Ex. 5).



Ex. 5

- The AquaJet pump is designed to be submerged directly into the pond. If using the diverter valve to send water to any additional filters, fountains, or waterfalls, maximize pond circulation by locating the AquaJet pump as far away as possible from the location of the water entering back into the water feature (Ex. 6).
- If the pump is not on a level base, loosen the riser stem collar and adjust the orientation of the riser stem to keep the fountain head vertical (Ex. 7).



Ex. 6



Ex. 7

- If not using the fountain kit, the diverter valve or the multi-hose adapter can be used to supply water to an accessory such as a spitter, external filter, or waterfall (Ex. 8).
- If using the diverter or multi-hose adapter to supply water to an additional filter, fountain, or waterfall, it is recommended to NOT position the pump in the deepest portion of the pond. This will protect the fish by preventing the pond from completely draining in case of leak in the plumbing or filter, fountain,



Ex. 8

or waterfall. Bricks or stones can be used if needed to raise the pump off the bottom.

- Connect pump to an outlet that is protected by a Residual Current Device (RCD). Once the pump is running and water circulating through the filter(s) or waterfall, check for any fitting or waterfall leaks where the external connections are made.

General Maintenance

- Fountain Height
 - Pump size, as estimated in the earlier table
 - How deep the pump is positioned in the water; lowering the pump increases the flow since the discharge is also lowered
 - The two valve adjustments on the diverter valve (see information above)
- Pump Screen Cleaning
 - To maintain the correct flow and fountain head patterns, both the fountain heads and the pump screens will require occasional cleaning.
- Pump Cage
 - Do not remove the upper or lower pump cage while operating the pump. Failure to operate the pump without the filter cage or operating the pump with a broken cage will allow large debris to enter the pump causing the pump to fail voiding the warranty.
- Pump Cage Cleaning
 - We recommend inspecting your AquaJet on a regular basis to make sure it is functioning properly. If you notice the water flow rate diminish it may be due to the pump's filter cage becoming clogged with debris. Always disconnect the power before performing maintenance on the pump. In many cases the clogged filter cage can be cleaned by simply reaching in the pond or pulling the pump out of the water and removing debris from the filter cage. The pump can also be removed from the pond and the debris stuck to the pump filter cage can be removed or sprayed off with a garden hose (Ex. 9).
- Pump Leveling
 - If the pump is not on a level base, loosen the riser stem collar and adjust the orientation of the riser stem to keep the fountain head vertical.
- Internal Pump Cleaning
 - If you have thoroughly cleaned the filter cage screens and still have diminished flow rates, then you will need to remove the pump from the circular base to inspect and clean the impeller rotor assembly.

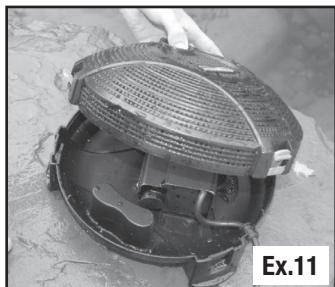


Ex. 9

- Pull the cage release tabs outward to unlock the upper pump cage (Ex. 10).
- With the cage tabs released the filter cage can be lifted to expose the pump (Ex. 11).

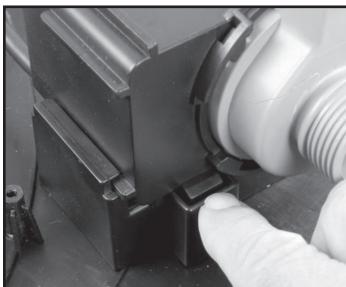


Ex. 10

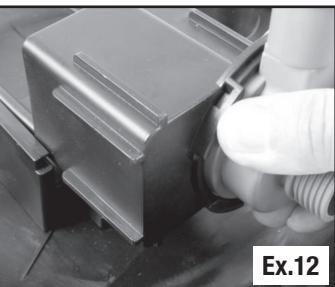


Ex. 11

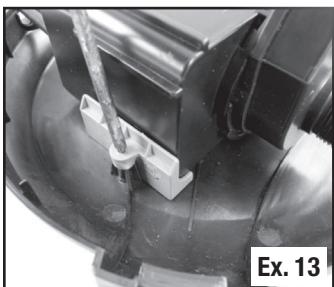
- The procedure to remove the pump from its mount varies depending on the pump model. The 600 and 1300 are easily removed by depressing the tab on the mounting bracket and sliding the pump forward towards the water chamber cover (Ex. 12).



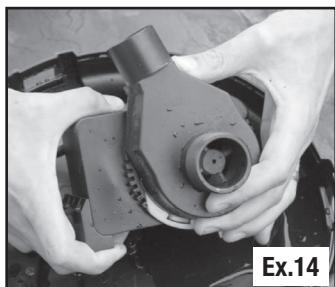
Ex. 12



- For the 2000 model, remove the two screws securing the pump holding brackets to allow the pump to be lifted from the circular base. Please make a note of the pump bracket orientation prior to removing the screws so the brackets can be replaced onto the pump in the same orientation. The power cord can be left in the strain relief, if desired, in order to simplify reassembly (Ex. 13).
- While holding the pump securely, rotate the water chamber cover counter-clockwise so it can be removed from the pump (Ex. 14).



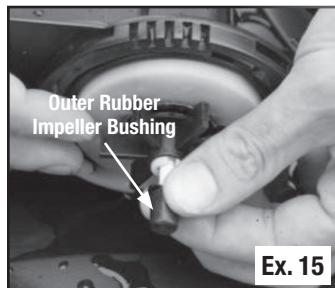
Ex. 13



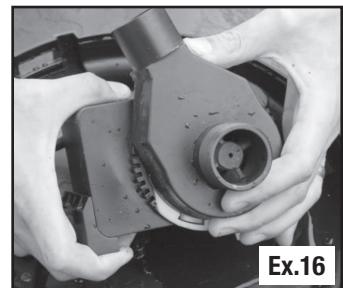
Ex. 14

- With the impeller assembly now exposed, it can be removed from the pump by pulling outward on the impeller blades.

IMPORTANT: Do not lose the outer rubber impeller shaft centering bushing (Ex. 15). This bushing sits inside the water chamber cover and sometimes it remains in the cover when the cover is removed (Ex. 16). If, however, this bushing stays on the impeller shaft, simply slide it off the shaft and set it aside or replace it in the water chamber cover so the impeller assembly can be removed from the shaft.

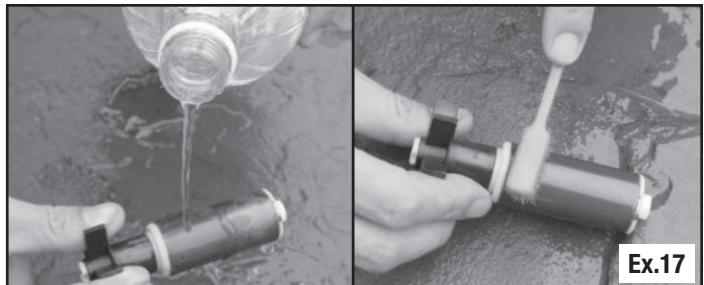


Ex. 15



Ex. 16

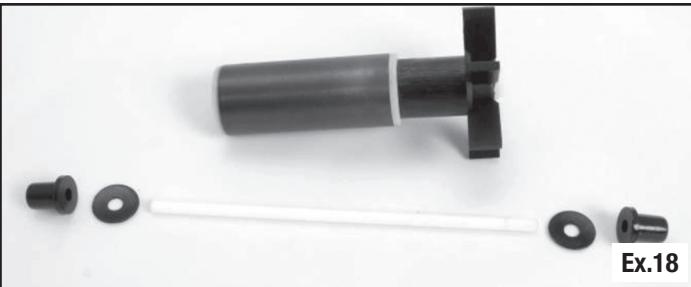
- If your rotor assembly impeller and internal pump body have excessive scale build-up, clean with a mild acid, such as white vinegar or Aquascape Pump Cleaner Maintenance Solution (#91143) and a kitchen sponge or soft bristled brush that won't scratch the stainless steel. This will remove the scale build-up and allow the pump impeller to spin like new again (Ex. 17).



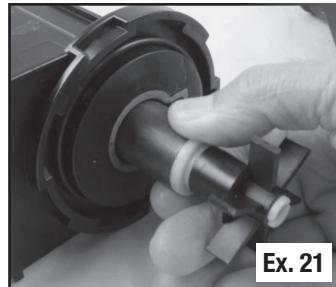
Ex. 17

- Replacing The Impeller/Rotor Assembly and Water Chamber Cover
 - The impeller assembly is the only moving part on the AquaJet pump and will experience wear and tear. If you've cleaned the pump, as described above, and still experience poor pump performance, it is most likely time to replace the impeller. Replacing the impeller is extremely easy. Replacement impeller kits are available through your Aquascape dealer.

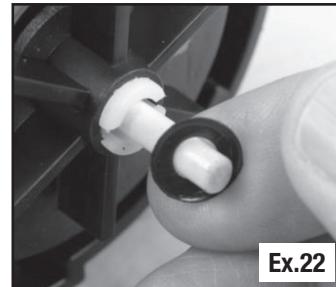
NOTE: The replacement kits include all parts shown. Make sure to remove all of the original parts from the inside of the pump before installing the replacement impeller kit (Ex. 18).



Ex.18

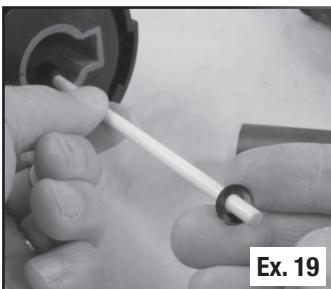


Ex. 21

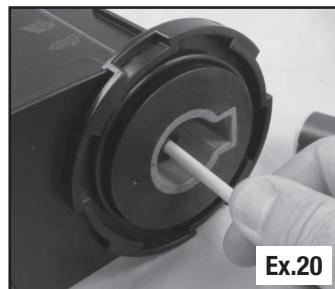


Ex.22

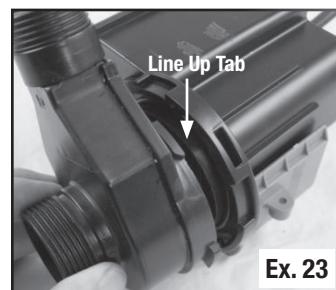
- A centering bushing is required on both ends of the impeller shaft, one bushing is located inside the pump and an outer bushing sits in the water chamber cover.
- Slide the first interior bearing washer onto the ceramic shaft (Ex. 19).
- Place the ceramic impeller shaft into the pump, checking to be sure the centering bushing sits inside the pump (Ex. 20).



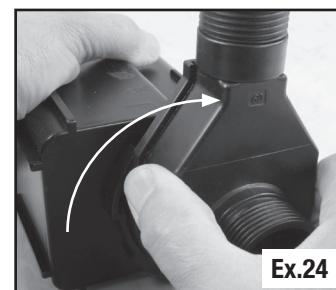
Ex.19



Ex.20



Ex. 23



Ex.24

- Carefully, slide the impeller back onto the shaft. Use caution, the impeller assembly is magnetic and will be forcefully pulled back into the pump (Ex. 21).
- Install second outer bearing washer over the impeller shaft (Ex. 22).

Troubleshooting

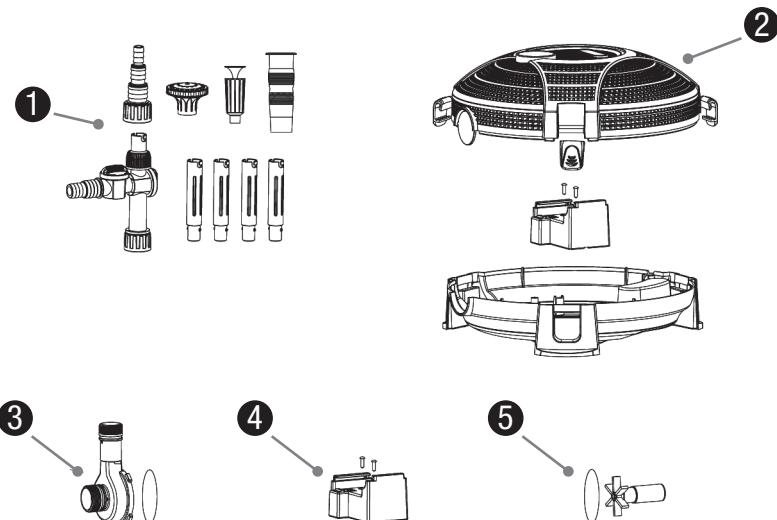
- Reduced water flow
 - The fountain head itself may be clogged. Shut off the pump, and remove the head for a more thorough cleaning with a garden hose and brush.
 - The fountain heads can be thoroughly cleaned, if needed, by taking them apart (Ex. 26).
 - Pump or plumbing may be clogged. It may be necessary to clean the pump cage screens and impeller assembly.
 - Adjust the diverter valve(s) to set the desired flow to the fountain and/or accessory.
- Pump hums but doesn't push water
 - The pump or plumbing may be clogged.
 - It may be necessary to clean the pump cage screens and impeller.
 - Remove the water chamber cover and inspect and clean the impeller rotor assembly and internal pump body.
 - Make sure nothing is blocking or wrapped around the impeller.
 - Make sure the pump is receiving the correct voltage.
- Pump not working
 - The Residual Current Device (RCD) may have tripped.
 - The pump is not receiving the correct voltage.



Ex.26

Replacement Parts

AquaJet® Pond Pump Replacement Parts	
No.	Item number/description
1.	91084 – AquaJet 600 Fountain Kit
1.	91085 – AquaJet 1300 Fountain Kit
1.	91086 – AquaJet 2000 Fountain Kit
2.	91087 – Pump Housing Covers
3.	91088 – AquaJet 600 Water Chamber Cover
3.	91089 – AquaJet 1300 Water Chamber Cover
3.	91090 – AquaJet 2000 Water Chamber Cover
4.	91091 – Pump Mount Kit
5.	AquaJet 600 Impeller Kit
5.	AquaJet 1300 Impeller Kit
5.	AquaJet 2000 Impeller Kit



Warranty Information

3 YEAR WARRANTY

Aquascape warrants that the AquaJet® 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.

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