



ECOWAVE® POND PUMP

EcoWave® 2000

Item #91131

EcoWave® 3000

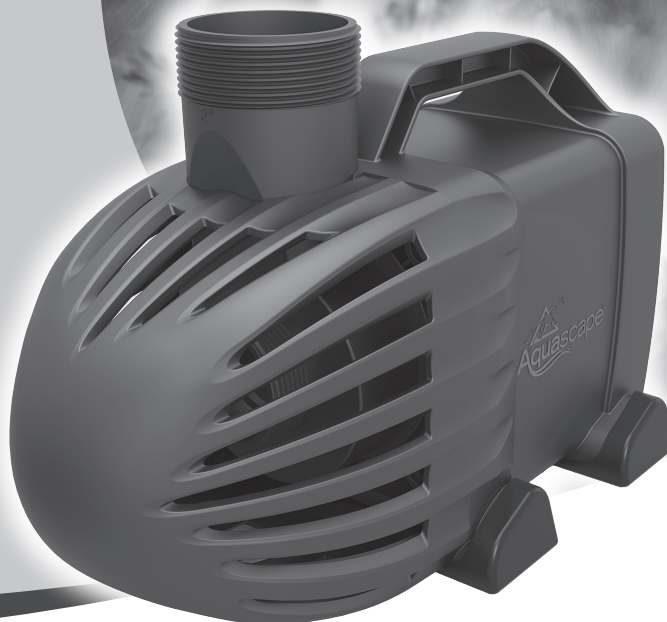
Item #91132

EcoWave® 4000

Item #91133

EcoWave® 5000

Item #91134



aquascapeinc.com



Thank you for choosing the Aquascape EcoWave® 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.



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EcoWave® Pond Pump

Aquascape EcoWave Pond Pumps are magnetically-driven (mag-drive) pond and waterfall pumps developed to provide high flow rates at low head heights. The internal, smart mag-drive motor technology and vortex style impeller ensure unmatched electrical efficiency, minimizing the electrical consumption of your pond or waterfall. EcoWave Pond Pumps are ideal for use in pond skimmers and Pondless® Waterfall Vault applications. This instruction manual will guide you through proper installation of your pump as well as recommended maintenance procedures to ensure long-term effectiveness.

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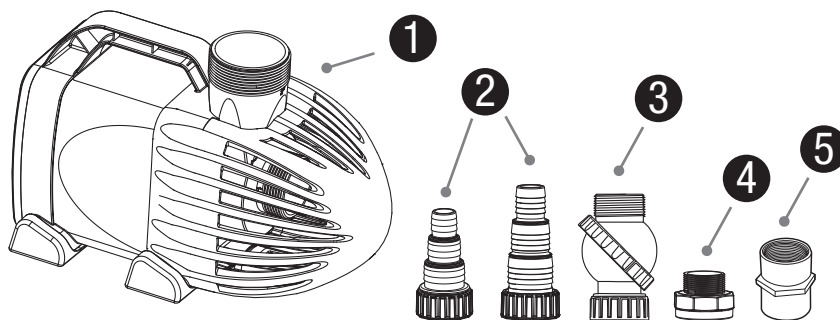
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Contents	
No.	Description
1.	EcoWave Pond Pump
2.	(2) Multi-Hose Adapter 25, 32, 38 mm (1", 1¼", 1½")
3.	Rotational Ball Output 38 mm (1½")
4.	50 mm (2") FPT x 38 mm (1½") MPT
5.	Female Adapter 38 mm (1½")



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 using 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; 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.
- The EcoWave Pond Pump is a thermally protected, submersible pump for outdoor or indoor use and has been evaluated for use with water only.



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.

EcoWave Pond Pump Specs

Model Number	2000	3000	4000	5000
Maximum Flow Rate (LPH)	7,600	11,200	15,000	19,000
Maximum Head Height (m)	4.3	6.2	6	6
Motor Type	Mag-Drive			
Volts	240			
Hertz	50			
Wattage	49	92	130	150
Power Cord Length (mm)	10			
Pump Discharge Diameter (mm)	50			
Pump Intake Diameter (mm)	50			
Pump Dimensions (cm)	28 L x 14.6 W x 19 H			

Installation

- The EcoWave Pond Pump is designed for installation in skimmer filters, Pondless® Waterfall, or large fountain basins. Do not install the EcoWave Pond Pump directly in the pond.
- Carefully unpack the pump and fittings (Ex. 1).



Ex. 1

- The EcoWave Pond Pump provides a 50 mm (2") threaded discharge (MPT) and an assortment of fittings, making it easy to connect the pump in a wide variety of applications.
- Select the appropriate fittings for your application and thread them onto the pump discharge (Ex. 2).



Ex. 2

NOTE: A flat rubber washer should be installed with every 38 mm (1½") collar fitting to ensure leak-free connections (Ex. 3).

NOTE: Do not use tools with the included fittings. Fittings only need to be hand-tight.



Ex. 3

- The included 38 mm (1½") Rotational Ball Output (Ex. 4) allows you to adjust the discharge to the perfect angle for your installation. Adjust the rotational ball output by loosening the threaded collar on the ball and rotating. Tighten the collar when the desired angle is achieved.
- If desired, a check valve adapter (#88058) is available (sold separately) for quick and easy connection to the Aquascape Dual Union Check Valve 2.0 (#48026 sold separately).



Ex. 4

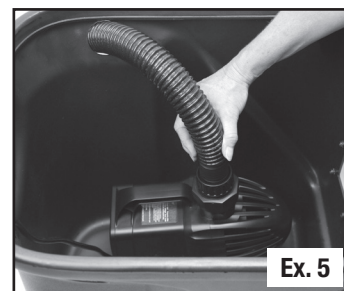


#88058 Check Valve Adapter



#48026 Dual Union Check Valve 2.0

- Attach the tubing to the fitting (Ex. 5). A hose clamp (not included) can be used to secure the tubing onto the fitting (Ex. 6).

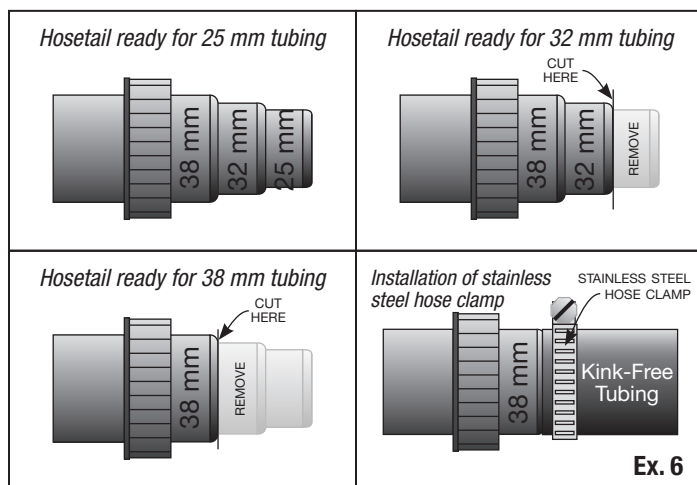


Ex. 5

NOTE: Due to the wide variety of tubing/pipe measuring standards used throughout the pond industry, Aquascape has included two tapered fittings with your pump. We recommend selecting the fitting that best fits your kink-free pipe.

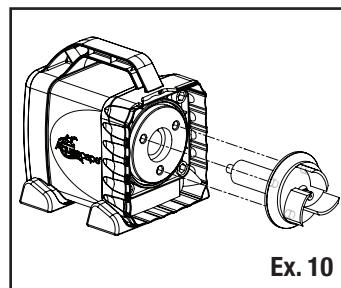
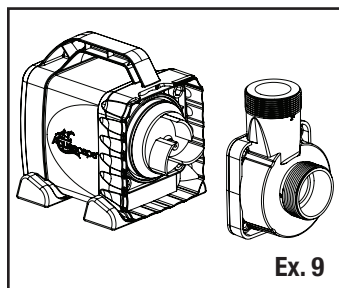
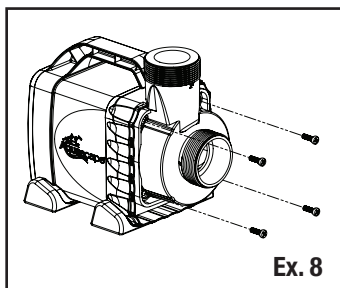
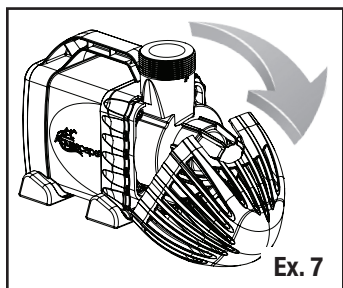
NOTE: We recommend using the largest diameter of tubing possible to achieve maximum water flow. If using pipe with a larger diameter than the smallest section of the multi-hose adapter, cut off the smaller section to avoid any flow restriction (Ex. 6).

- Plug the pump into a Residual Current Device (RCD) protected outlet and enjoy.



General Maintenance

- Outer / Inner Filter Screen Cleaning:
 - Gently push on the top of the outer screen to remove it from the pump. Then, unthread the inner screen from the pump intake (Ex. 7).
 - Clean the filter screens to remove any existing debris or buildup. If needed, use Aquascape Pump Cleaner Maintenance Solution (#91143) to remove stubborn buildup.
- Impeller Cleaning:
 - Remove the four screws to disconnect the water chamber cover (Ex. 8).
 - Remove the impeller by pulling gently (Ex. 9).
 - Clean the impeller and internal pump body with Aquascape Pump Cleaner Maintenance Solution (#91143), using a sponge or soft-bristled brush.
 - When re-installing the impeller, be sure to align the three tabs as shown (Ex. 10).
 - Re-install the water chamber using the four screws. Then, replace the outer and inner screens.

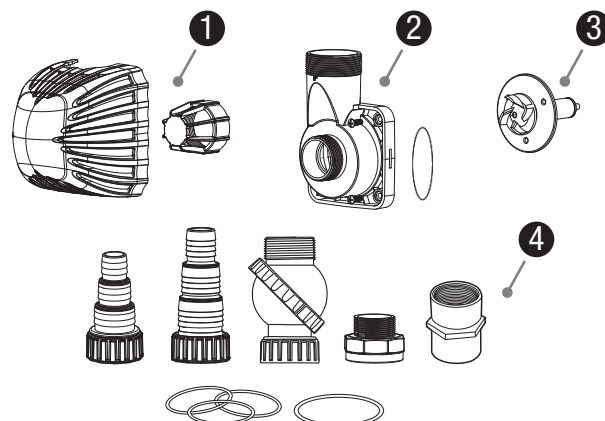


Troubleshooting

- 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

Replacement Parts

EcoWave® Pond Pump Replacement Parts	
No.	Item number/description
1.	91136 – EcoWave 2000/3000 Intake Screen
1.	91149 – EcoWave 4000/5000 Intake Screen
2.	91137 – EcoWave 2000/3000 Water Chamber Cover and O-Ring Kit
2.	91150 – EcoWave 4000/5000 Water Chamber Cover and O-Ring Kit
3.	EcoWave 2000/3000/4000/5000 Replacement Impeller Kit
4.	91135 – EcoWave Discharge Fitting Kit



Warranty Information

3 YEAR WARRANTY

Aquascape warrants that the Ecowave 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