VIVOSUN

Designed by VIVOSUN in California.
Made in China

Water Pond Pump

USER MANUAL

Love what you grow™

Welcome to VIVOSUN

Thank you for choosing VIVOSUN. We are committed to product quality and friendly customer service. If you have any questions or suggestions, please don't hesitate to contact us.

Ponds, Foundtains, and Waterfalls

Pump Introduction: Thank you for purchasing this high performance, energy-efficient pump designed for use in ponds, fountains, waterfalls, hydroponic systems, irrigation systems, and other water features. This pump can be used in either wet or dry installations and features wet rotor/wet bearing technology for cooler running, and a pre-filter screen to handle large particles so your pump requires less maintenance. Multiple sizes of insert fittings and suction cups are included. Designed for fresh water use only.

PG1600-S

Watts: 100W Amps: 0.88A Voltage: 120V, 60Hz Horse Power: 0.12HP
Inlet/ Outlet: 1″ Flexible Tube: 3/4″ or 1″ ID

Flow Rate (gph)	1600	1506	1189	978	740	542	370	251	132	0
Head (ft)	0.0	0.7	3.3	4.9	6.6	8.2	9.8	11.5	13.1	15

PG2700-S

Watts: 120W Amps: 1.2A Voltage: 120V, 60Hz Horse Power: 0.16HP
Inlet/ Outlet: 1 1/4″ Flexible Tube: 1 1/4″ or 1″ ID

Flow Rate (gph)	2700	2325	1982	1638	1295	978	700	462	264	0
Head (ft)	0.0	1.6	3.3	4.9	6.6	8.2	9.8	11.5	13.1	15

PG4500-S

Watts: 220W Amps: 2.3A Voltage: 120V, 60Hz Horse Power: 0.30HP
Inlet/ Outlet: 1 1/2″ Flexible Tube: 1/4″ or 1″ ID

Flow Rate (gph)	4500	4227	3831	3329	2814	2259	1783	1347	951	608	375	0
Head (ft)	0.0	1.6	3.3	4.9	6.6	8.2	9.8	11.5	13.1	14.8	16.4	19

Ponds, Foundtains, and Waterfalls

PG5300-S

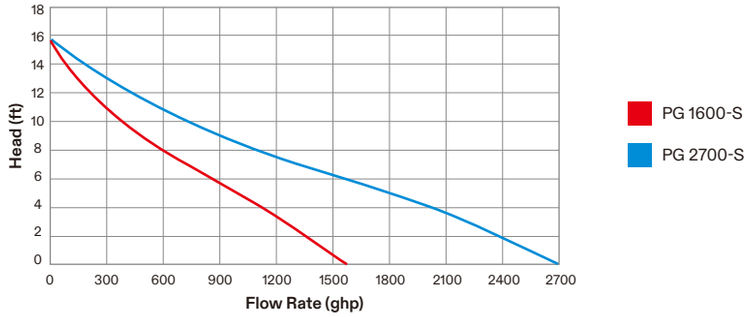
Watts: 310W Amps: 2.7A Voltage: 120V, 60Hz Horse Power: 0.42HP
Inlet/ Outlet: 1 1/2″ Flexible Tube: 1 1/2″ or 1 1/4″ ID

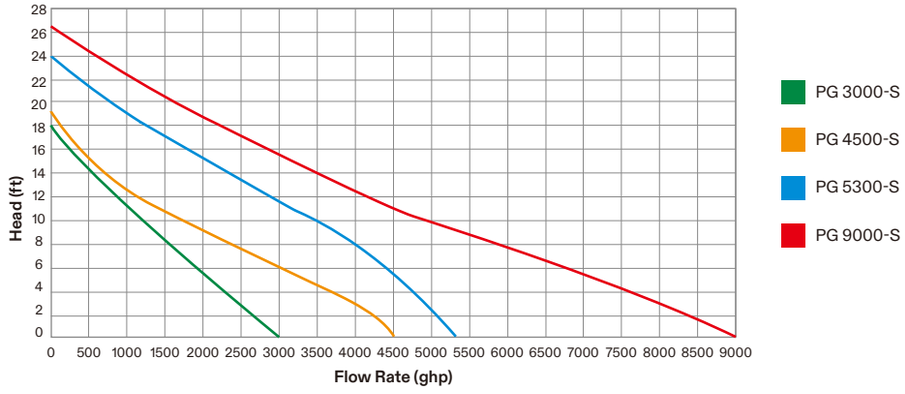
Flow Rate (gph)	5300	5020	4756	4412	4042	3620	3197	2721	2219	1717
Head (ft)	0.0	1.6	3.3	4.9	6.6	8.2	9.8	11.5	13.1	14.8
Flow Rate (gph)	1189	793	476	238	0					
Head (ft)	16.4	18	19.7	21.3	24					

PG9000-S

Watts: 620W Amps: 5.1A Voltage: 120V, 60Hz Horse Power: 0.45HP
Inlet/ Outlet: 2″ Flexible Tube: 2″ ID

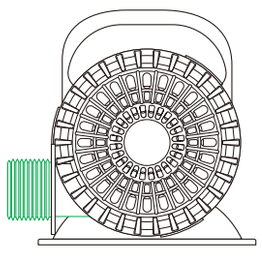
Flow Rate (gph)	9000	7662	7133	6077	4888	3699	2563	1480	0
Head (ft)	0.0	4.6	6.6	9.8	13.1	16.4	19.7	23	27.6



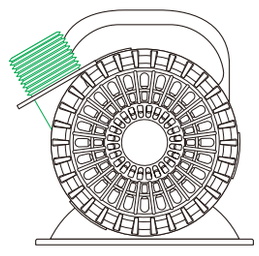


Select an Outlet Position

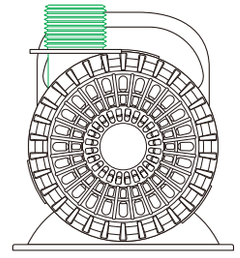
Place the pump flat on its base. To set the outlet to Positions 2, 3, or 4 as shown below, the body of the pump needs to be rotated within the handle/stand and locked at Notches A, B, or C respectively. To set the outlet to Position 1, rotate the pump into Notch A while the impeller chamber covering is removed and manually rotate it counter-clockwise into the desired position.
To set the outlet to Position 5, rotate the pump into Notch C while the impeller chamber covering is removed, and manually rotate clockwise until in the desired position.



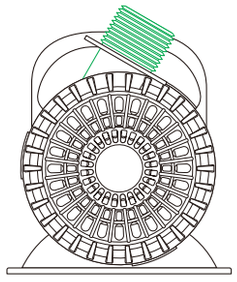
Position 1



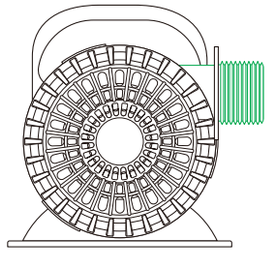
Position 2



Position 3



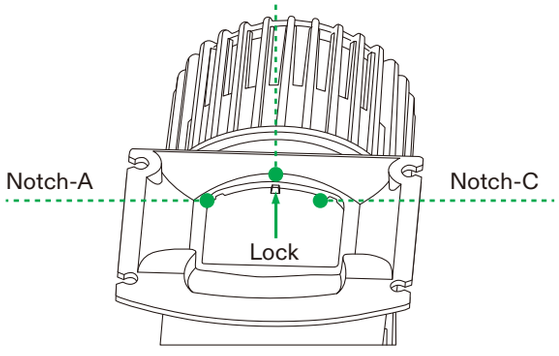
Position 4

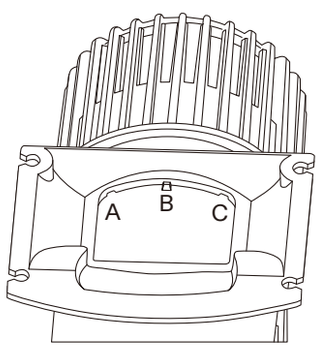


Position 5

Diagram of Notch A, B, and C

Pump Maintenance:
This pump features a water-lubricated bearing and shaft for guaranteed long-lasting service, however the rotor assembly is susceptible to failure if sand or extra-fine grit is pumped through it.
- Caution: Always unplug the pump before handling or performing any maintenance.
- If the pump is not working, first check the circuit breaker to which it is connected. If the breaker appears to be in working order, try another (GFCI) to make sure the pump is properly powered.
- Check the pump's discharge, impeller, and tubing for any obvious signs of obstruction.
- Check the pump's inlet screen to ensure that it is not clogged.
- After removing the impeller chamber covering, rotate the impeller by hand to ensure it can spin freely.





Cleaning

To clean the impeller chamber and impeller, remove the impeller chamber covering by rotating it counter-clockwise. This will expose the pump's impeller. Use a garden hose to spray any debris out of the chamber and off the impeller.

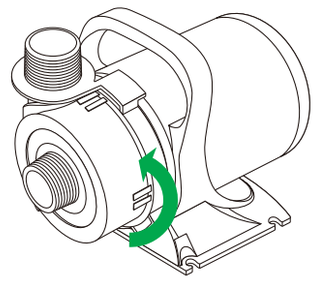


Figure A

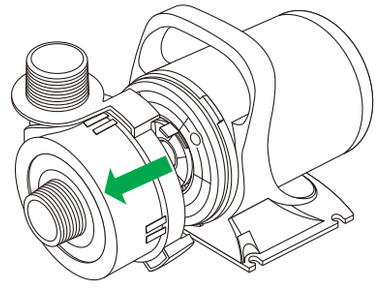
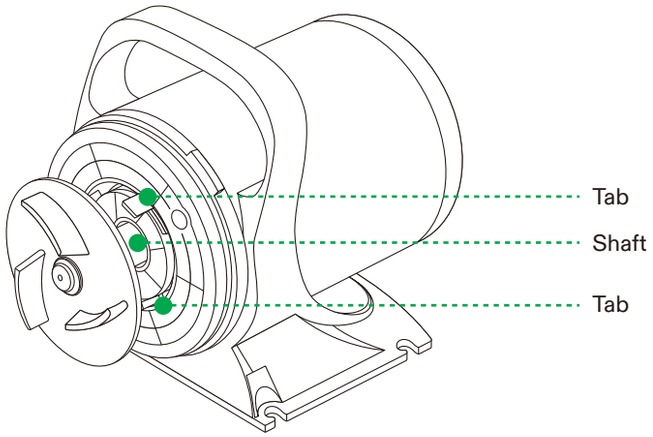


Figure B

Replaceing the Impeller

To clean or replace the impeller assembly, first remove the front housing by rotating it counter-clockwise (see Figures A & B), and with the impeller exposed, locate the 3 tabs as shown in the figure below.



Using a pair of needle-nose pliers, very gently grip the shaft with the tip of the pliers while also locking in one of the tabs at the same time. Gently turn the shaft counter-clockwise while pushing on the tab to unlock the impeller assembly. Pull the assembly straight out to remove it from the motor housing (refer ti Figures C, D, and E). Use only minimal force while doing this to avoid damaging the tabs on the pump or the impeller assembly.
Visually inspect the impeller assembly for any damage. The impeller assembly for pumps is one assembly as shown in Figure F.

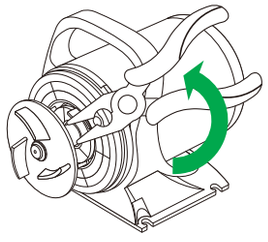


Figure C

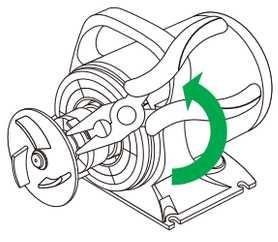


Figure D

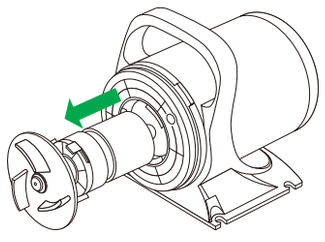


Figure E

Reinstall

Before reinstalling the impeller assembly, it is recommended you use a silicon-based lubricant on the ceramic shaft, on the impeller assembly's metallic rotor, and on the pump body's O-ring. After lubrication is complete, reinstall all the components back into the pump by sliding the impeller assembly back into the motor housing.
Using a pair of needle-nose pliers, very gently grip the shaft and one of the tabs at the same time, and turn clockwise while gently pushing on the tab to lock the impeller assembly in place. When you hear a click sound it means the impeller is locked. Use only minimal force while doing this to avoid damaging the tabs on the pump or the impeller assembly.

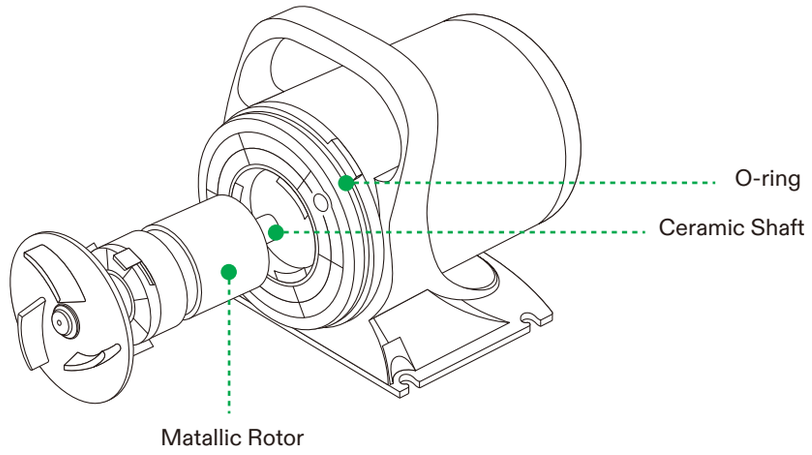


Figure F

Reinstall the front housing by sliding it over the impeller chamber and rotating it clockwise until it locks in the desired position.