

Cleaning (cont'd):

- Replace the impeller/intake cover and attach using the 4 screws.
- Replace the intake screen.

Troubleshooting Guide:

Problem	Possible Cause	Possible Solution
Pump does not start	Power is off	Turn Power On
	Power failure	Check power supply or contact power company
	Volatge drop/over-load	Check/Replace the GFI (Ground Fault Interrupter)
	Power cord is not connected	Connect power cord
Pump stops after starting	Pump is overheating	Submerge pump/Raise water level/Allow pump to cool/Clean impeller
	Power/Current overload	Check length/size of power cable. Check or replace GFI
	Intake is blocked/ Impeller needs cleaned	Remove debris from the pump intake. Refer to page 7 for cleaning instructions.
Diminished flow rate or no water flow	Impeller needs cleaned	Refer to page 7 for cleaning instructions
	Obstruction in pump or piping	Clear obstruction
	Low water level	Stop operation/Raise water level

The Complete Aquatics High Efficiency Pond & Waterfall Pump Owner's Manual*

For Models: JGP-15000 (4,000 gallons per hour)
 JGP-20000 (5,200 gph)
 JGP-25000 (6,100 gph)
 JGP-30000 (8,000 gph)



Please read this entire manual before installing or operating!

*Manufactured by Jebao, P.R. China

Winterizing:

- Under no circumstances should the pump be left in frozen water or water inside the pump be allowed to freeze.
- When the pump is out of use for an extended period, wash it and dry it thoroughly, then store it indoors.
- Always run a test operation before putting the pump back into operation.
- When the pump is left installed, it should be run at regular intervals (about once per week).

Warranty:

The Complete Aquatics High Efficiency Pond & Waterfall pump carries a two (2) year limited warranty. This limited warranty is extended solely to the original purchaser commencing from the date of original purchase receipt and is void if any of the following apply:

- The pump was run in dry conditions causing the thermal overload protection to trip. Skimmers with inadequate or clogged filtration may create conditions in which the pump runs dry.
- The pump was not run on a dedicated circuit.
- The cord has been cut or altered.
- The pump has been misused or abused.
- Complete Aquatics pump identification tag or any other markings or labels on the pump have been removed or altered.

Warranty Claims:

- In case of warranty claims, pump should be returned to place of purchase accompanied by original receipt.

CAUTION: DO NOT operate this product under any condition other than those for which it is specified. Failure to observe this precaution can lead to electrical shock, electrical leakage, fire, water leakage or other problems.

CAUTION: Ensure pump is installed according to local electrical code. Pump must be installed with a ground-fault circuit interrupter (GFI). Pump must operate on 100-120 volt, 60 Hz AC electric supply. Please contact an electrician.

WARNING: RISK OF ELECTRIC SHOCK - This pump is supplied with a grounding conductor and grounding type attachment plug. Be certain that it is connected only to properly grounded, grounding-type receptacle.

CAUTION: Make sure power source and plug are protected and located away from water or the pump discharge to prevent accidental shock or short circuit.

DANGER: Never place a hand or any other object in or near the pump inlet or outlet while the machine is under power and/or operating. Before attempting any maintenance on pump, ensure that power cord is completely disconnected from power supply. Always wait for motor to completely stop before handling pump or beginning maintenance.

CAUTION: Avoid dry operation. Always operate pump completely submerged in water. If using as an in-line pump, pump must be elevated beneath water-level and filled with water.

CAUTION: Evaluated for use with water only. **Not intended for use with swimming pools.**

Congratulations on your purchase of a **Complete Aquatics High Efficiency Pond & Waterfall Pump**. These pumps are designed for low-head/high-flow applications. They can be used as submersible or in-line pumps for ponds, pond-less waterfalls, fountains and many other water features.

To avoid an accident do not use the pump in any way other than as described in this manual. Read the entire manual before installing and operating this device. Observe all cautions and warnings on the following pages. The manufacturer and vendor cannot be responsible for accidents arising because the product was not used as prescribed. After reading this manual, keep it as a reference in case questions arise during use.

High Efficiency Pond & Waterfall Pump Characteristics:

Model:	JGP-15000	JPG-20000	JPG-25000	JPG-30000
Item #:	PU00108	PU00109	PU00110	PU00111
Max Flow:	3,920 gph	5,260 gph	6,580 gph	7,960 gph
Max Pump Height:	21 feet	21.5 feet	24.5 feet	27.5 feet
Rated Power Use:	306 watts	426 watts	456 watts	540 watts
Outlet:	1½" FPT or MPT	1½" FPT or MPT	1½" FPT or MPT	2" FPT or MPT
Inlet:	2" MPT	2" MPT	2" MPT	2" MPT

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Electrical Safety:

- Electrical wiring should be installed by a qualified electrician in accordance with all applicable safety regulations. Incorrect wiring can lead to pump malfunction, electric shock or fire.
- Do not cut electrical cable. If a cable with cut insulation or other damage is submerged in water, there is danger of water seeping into the pump motor and causing a short. This may result in damage to the pump, electric shock or fire. **Altering the electric cable in any way will void the warranty.**
- Never move or handle the pump by pulling on the electrical cable. Make sure the electrical cable does not become excessively bent or twisted, does not rub against a structure in any way that might damage it, and does not come in contact with heated surfaces.

Operation:

- Pump is for use in water only. Water temperature should never exceed 95° F.
- Pump must not be used to pump salt water, sewage, flammable or corrosive liquids, greases, oil or food waste.
- **The pump must never be allowed to run dry.** If used as a submersible pump, the pump must be fully submerged in water at all times of operation. If used as an in-line pump, plumbing and pump must be filled with water at all times of operation. In in-line applications, pump must be positioned below water surface because it is NOT self-priming.
- In case of excessive vibration, unusual noise or odor, turn off the power immediately and consult the vendor.

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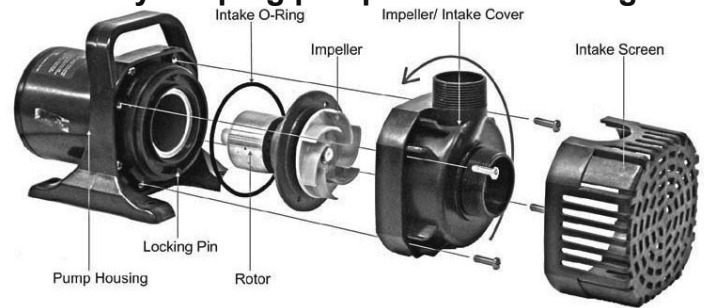


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Cleaning:

This asynchronous style pump will require periodic cleaning of the impeller assembly. Please follow the directions below for proper cleaning procedures.

Always unplug pump before servicing!



- Remove the intake screen.
- Remove the four screws using a #2 Phillips screwdriver.
- Rotate the impeller/intake cover counter clockwise 1/4 turn and remove by pulling straight out.
- Remove the impeller assembly.

NOTE: If debris accumulated around the rotor, the impeller may feel tight. Rotate the impeller back and forth while applying outward pressure until the impeller assembly wiggles free.

- Inspect the rotor and stator sleeve for built-up debris. Often in hard water, well water or pond-less applications, debris may appear as a crusty film around the rotor. Remove the film using a scrub brush or scouring pad.
- Inspect the intake O-ring for nicks or breaks.
- Re-assemble the pump by installing the intake O-ring and inserting the impeller assembly. Make sure to line-up the impeller assembly with the two locking pins on the top and bottom of the pump housing.

Thermal Overload Protection:

- The pump has a built-in thermal overload trip which prevents the pump from overheating. The pump must be allowed to cool down before restarting.
- If the pump will not start again automatically when cooling down, please check the troubleshooting guide for possible solutions.
- Repeating cycles of stopping and restarting will damage the water pump. Do not continue operation at low water level or while the inlet is clogged with debris. Not only will performance suffer, but such conditions may cause noise, heavy vibration and pump failure.

Maintenance and Inspection:

- Regular maintenance and inspections are a necessity for continued efficient functioning. If any abnormal conditions are noticed, refer to the troubleshooting guide and take corrective measures immediately.

Monthly Inspection:

- Check for any drop in performance. Reduced performance is usually caused by debris blocking the pump intake.
- Detach the power cable from the receptacle or turn off the power supply at the circuit breaker.
- Disconnect the pump discharge and remove the pump from the water.
- Remove any accumulated debris from the surface of the pump, inlet screen.
- Remove the inlet screen and inspect the impeller.
- The impeller should spin freely. If the impeller feels tight or gritty when spun, please refer to the cleaning instructions on page 7.



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