



28606 Livingston Ave· Valencia· California 91355

GENERAL INSTRUCTIONS WATER GARDEN PUMPS WITH VENTURI



INSTALLATION

1. These pumps must **NEVER** be allowed to run dry. Make sure that liquid is circulating through the pump when the pump is submerged. The pump must **ALWAYS** be installed below water level to insure priming.
2. When using the pump for the first time, turn it on and off several times to clear the air out of the return line.
3. Use only 115 volt AC 60 cycle current unless the pump label designates a special current. Do not attempt to operate pump without a proper ground.
4. Always remove the pump from outdoor service during freezing climate conditions to prevent damage.
5. **The pump must not operate without water and with liquids with a temperature higher than 86° F!**

Choose the fountainhead that you wish to use and install it onto the telescopic tube by simply pressing down, screw the tube onto the pump. Lift the locking lever (A fig.1) and open the basket. Lay the pump, with the telescopic tube already screwed on, on one side of the basket housing, matching the riser with the outlet.

Using the Venturi for Aerating the Pond

The Venturi system allows the concentration of oxygen in the water to be greatly increased. To activate the system insert one end of the tubing (T fig. 3) in the opening provided in the pre-chamber (F fig. 3). Leave the other end of the tubing out of the water to take in air. Using the aerating feature reduces the pump flow rate to a maximum of 30%. Close the housing, making sure that the pump rests perfectly on the supporting wings and that the cable is inserted in the outlet hole (B). Secure the basket housing by lowering the locking lever (A). Place the Water Garden pump in a flat area of the pond that is free from severe formations of algae that can obstruct the filter. Then adjust the height of the fountain head so that the spray is always above water level. Once the pump is started you can regulate the water effect by adjusting the diverter valve on the telescopic riser (C fig. 2). If you want to create small streams or waterfalls connect the tubing to the opening on the side of the diverter valve (D fig. 2).

Housing Maintenance

For optimum performance the Water Garden basket requires simple but necessary maintenance. Unplug the unit and open the housing. Rinse the basket with water using a small brush to remove any scale. Reassemble as described above.

Pump Maintenance

Open the pre-chamber (F fig.3) turning it gently in a counter clockwise direction and pull out the impeller and magnet assembly (G fig.3), taking care not to lose the ceramic brushes and the rubber pads. Rinse everything in running water, using a small brush to remove any scale. Reassemble the pump, performing the same steps in reverse order.

WARNING:

1. "Risk of electrical shock"- This pump is supplied with a grounding conductor and grounding-type attachment plug. To reduce risk of electrical shock, connect only to a properly grounded, grounding- type receptacle.
2. Before handling pump in any way, turn off electrical power of any equipment immersed in water.
3. Do not install if electrical cord or pump is damaged in any way.
4. Voltage level is imprinted on pump, make sure it corresponds to the electrical current being used.
5. The U.S. National Electrical Code and many local codes, require that a Ground Fault Circuit Interrupter (GFCI) be installed in a branch circuit supplying fountain equipment rated above 15 volts AC. GFCI's are

available through electrical and building supply stores, catalogs, and contractors. Many new homes may already be equipped with a GFCI due to local codes.

6. For outdoor installation, use an approved and properly grounded outdoor junction box. Do not place finger or any other object into the pump opening while operating or when it is plugged in, since the pump impeller rotates at high speed and will strike any object inserted in its path.
7. Water is discharged from the pump at high pressure. Avoid looking closely into the pump when it is operating since possible eye injury could occur.

THREE YEAR LIMITED WARRANTY

Every Cal product is tested before shipment and when properly used and maintained will provide years of satisfaction. In the unlikely event that our material or workmanship should prove defective within the three-year warranty period, return the pump along with proof of purchase to the original dealer for inspection or replacement if needed. If you prefer, the product may be returned directly to Cal Pump for repair or replacement. Be sure to include your name, address, proof of purchase, and reason for return. This warranty is extended only to the original purchaser and is void if any of the following apply:

- The pump or product has been disassembled.
- Alterations have been made to the cord or plug.
- The pump has been run dry.
- Flammable liquids, solvents, chemicals, or abrasive solutions were pumped.
- Obvious abuse or misuse of the product took place.
- This warranty excludes any moving parts.
- The warranty label has been tampered with or removed.

This limited warranty period commences from the date of manufacture appearing on the product label or from the original date of purchase. The Cal Pump limited warranty applies to repaired or replaced products for the balance of the applicable period of the original warranty or 90 days from the date of shipment of a repaired or replaced product, whichever is longer.

