FLOATING FOUNTAIN WITH SPOTLIGHT SYSTEM

User Manual

GET READY TO BUILD YOUR GARDEN POND
Forever Homes for Every Creature

CE FC RoHS MADE IN CHINA

Infomation about these operating instructions

Before assembly or operation, please verify that all components are present. Compare the parts against the packing list and schematic diagram. If any components are missing or damaged, contact customer service to obtain replacement parts. Strictly follow the enclosed instructions to ensure safe and proper operation. Keep this manual in a safe place and transfer it along with the equipment when passing it to a new owner.

Part Description


Floating Attachment Assembly with Spotlights


Water Pump


Fountain Head


Pump Adapter


Spotlight Adapter


Remote Control


65.6ft Mooring Line *2

Mooring Ling Anchors


Filter Bag with Bracket

Caution

- This unit has been evaluated for use with fresh water only.
- Use a proper power source as indicated on the pump and transformer labels.
- Keep the cord away from high temperatures or other heat sources.
- Do not pump heated liquids.
- Never run the unit without water.
- Operate in fresh water only. Avoid heavily chlorinated water and water with high pH levels.
- Do not lift or pull the unit by its power cord.
- This light assembly has not been investigated for use in swimming pools or hot tubs.
- Do not use in conjunction with chemicals, foodstuff, easily flammable or explosive substances.
- Make sure the pump is securely installed before operating it.
- Keep the electrical connections dry! Hang the electrical cord below the electrical outlet to form a "Drip Loop". This will prevent water from running down the cord into the electrical outlet.
- Always unplug the pump when not in use, before putting on or taking off parts, before cleaning the pump and before doing any work for the fountain or pond.
- The pump must not be used when people are in the water. Please disconnect the pump from power supply first.
- Do not operate the appliance with a damaged cord or plug, or in an abnormal state. The supply cord of the pump cannot be replaced. If the cord is damaged, the pump should be discarded. Replacement pumps are readily available.
- Do not cut the plug end off the cord for any reason. Cutting the cord voids the warranty and creates an electrical hazard.
- Never hang or transport the pump by means of pulling the power cord.
- To disconnect the pump from the power source, pull the plug by the molded end; never pull the plug by the wire.
- Never use any accessories which are not recommended by the pump manufacturer.
- This may result in fire, electric shock, personal injury and/or voided warranty.

Warning

Risk of electric shock – This pump is supplied with a grounding conductor and grounding-type attachment plug.
To reduce the risk of electric shock, be certain that it is connected only to a properly grounded, grounding-type receptacle. Do not remove the grounding pin from the power cord plug.
Inspect cord for damage before installation and/or maintenance. Replace the entire fountain assembly if damage is found.
Always disconnect fountain from the power source before beginning any maintenance or work on the pump.

Steps to Install the Water Fountain


1. Assemble the frame and secure the filter bag.


2. Thread the nozzle through the float disc and connect it to the pump, tighten securely.


3. Place the water pump into the mesh cage and tighten the drawstring to seal.



4. Connect each spotlight to a four-in-one adapter.


5. Use a knife to cut 4 pieces of tether Line, line length depends on your lake size, attach one s ide of each line to one of the four loops.


6. Place the fountain into the water and tether it with supplied line and ground anchors into desired location.


7. Connect the Power Cord to Adapter.

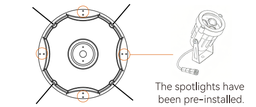

8. Plug in pump and spotlight power cords to GFCI outlet.

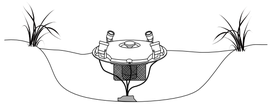

9. Use the remote control to set the lighting.

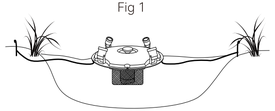
Two methods are used for fountain floating and placement.

Fig 1. This unit may be anchored to the bottom of the pond utilizing two 2 concrete blocks and rope (nylon is preferred) Drop each concrete block with rope attached, in each direction from the location of the float, to prevent spinning while in operation. Ropes are then tied to Stainless eyes under the float, or thru holes molded into the float. (This is preferred if you have a lot of activity in the pond/lake. No wires or strings to get caught on.)

Fig 2. The second method is to moor the unit to shore, with what we call "dog stakes" or spiral eyes threaded into the ground. We recommend you thread these in just under the waterline and in an area you won't forget. Once tied off to the float, pull in place and tie or strap to the "spiral eyes" under the waterline. This method makes retrieving the unit much simpler.




Fig 1


Fig 2

How do I store the unit?

Storage of this unit is very simple, once out of the water and sprayed clean for the season. This unit can be stored sitting right-side-up, sitting on its base, but we would recommend removing the float, so it is not too top heavy. This unit should be kept from freezing and thawing, a controlled temperature is best, if it is possible. You can purchase a Deicer so that the fountain can be used all year long.

Causes of uneven pond aeration/floating?

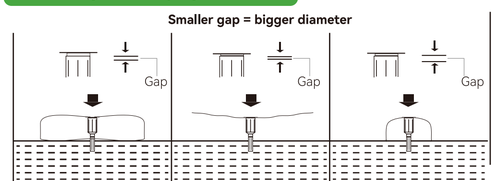
The most common cause for a float to sit uneven in the water is that the power cord has not been given enough slack to relax in the water, thus pulling the pond fountain or aerator to one side. Another reason is that usually when anchoring the pond fountain or aerator with concrete blocks, one side is too tight and actually pulling one side down in the water. Both of these problems are easily remedied.

Pump Specifications

Model No.	18 inch Floating Fountain	22 inch Floating Fountain
Rated voltage	9-24V	9-24V
Product Dimensions	ϕ3.35*1.61*7.2 inch	ϕ3.35*1.61*7.2 inch
Power consumption	45W	65W
Max. flow rate	15FT	18FT
Max. head height	1200GPH	1600GPH
Single tier (height*diameter)	7.6ft*16.4ft	8.2ft*20ft
2-Tier (height*diameter)	6.6ft*13ft	7.2ft*16.4ft
Trumpet (height)	1.64ft-3.28ft	1.64ft-3.28ft
Trumpet(diameter)	3.28ft-16.4ft	3.28ft-16.4ft

How to Adjust the Spray Diameter?

Smaller gap = bigger diameter



In the case of apple shaped fountain head, the fountain nozzle should be lifted to a position above the water surface far enough to allow an ideal apple shaped fountain. To have your preferable apple size, adjust the water discharge gap by pressing or lifting the nozzle top piece as shown in Fig. The larger the discharge gap, the smaller the apple sphere.

Storage/Winterization

- Put the unit out of operation at water temperatures below 46 °F (8 °C) or, at the latest, when freezing temperatures are to be expected.
- Thoroughly clean the unit, check for damage.
- Ensure that the storage place is inaccessible to children.

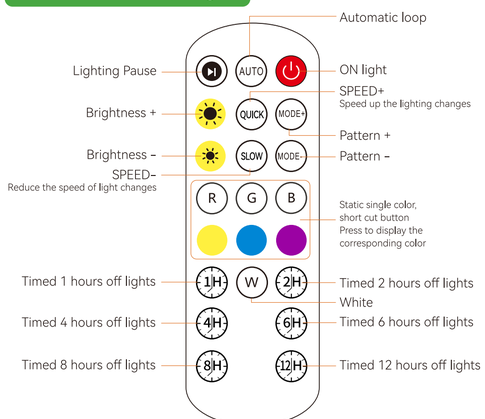
Wear parts

The impeller unit is a wear part and is excluded from the warranty.

Disposal

Do not dispose of this unit with domestic waste! Disable the unit beforehand by cutting off the cables. Further information about the recycling of this product can be obtained from your local municipal authority

Remote Control of Spotlights



Maintenance and cleaning

Attention! Dangerous electrical voltage.
Possible consequences: Death or serious injuries.
Protective measures:

- Isolate the units and installations (switch off and disconnect from the power supply) before reaching into the water.
- Isolate the unit before starting any work.
- Secure the unit to prevent unintentional switching on.

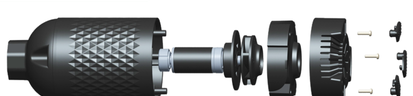
WARNING

This pump uses a very strong magnet to achieve superior performance. When removing the impeller assembly there will be considerable magnetic force resisting the extraction of the impeller assembly. This is normal. Likewise when replacing the impeller assembly there will be a strong magnetic force pulling the assembly into the pump to potentially cause injury to fingers and in rare cases damaging the ceramic shaft or rear bearing. Use thick gloves when replacing the impeller assembly.

Cleaning the Unit

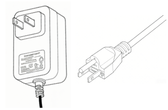
- Regular cleaning of the pump may be necessary depending upon the environment in which it is operated. Clean the fountain when a drop in visual performance is detected.
- If necessary, clean the unit with warm water using a soft brush.
- Never use aggressive cleaning agents or chemical solutions. These could attack the housing surface or impair the function.
- In the event of stubborn furring (calcium deposits), a common household cleaner free from vinegar and chlorine can be used. Subsequently, clean the pump thoroughly using warm water.

Cleaning the pump



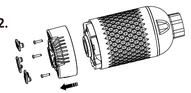
1. Before cleaning, always disconnect the pump from the power source and remove the inlet screen.

1.



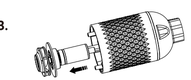
2. Remove the impeller housing to expose the impeller assembly.

2.



3. Remove the impeller assembly by gently pulling on the impeller blades.

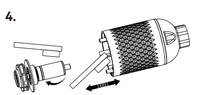
3.



NOTE: This pump uses a very strong magnet. To protect your fngers from potential injury, use caution when removing or inserting the impeller.

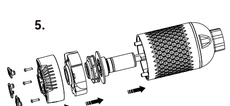
4. Use a soft cloth or brush and warm water to clean the impeller and the inside of the impeller and rotor .

4.



5. Reassemble all pump parts.

5.



6. Reassembly all parts making sure to fasten all interior electrical cords safely. Place the fountain into the water, and connect the fountain into a properly grounded electrical outlet.

Trouble shooting

Problem	Cause	Solution
The unit is not performing its suction function	Power supply not connected	Connect pump to power supply, check the supply lines to make sure the voltage is correct
	Impeller blocked, shaft broken	Remove the inlet screen and/or pump cover, and impeller housing to expose the impeller. Turn the impeller to ensure that it is not broken or jammed by debris. Also check to make sure that the ceramic shaft or bearings are not broken.
	Pump is not completely submerged	Place the unit below water, make sure it is floating.
Insufficient flow	Pump screen clogged	Clean pump
	Pump is not completely submerged	Place the unit below water, make sure it is floating
	Pump overload	Clean the pump housing and impeller assembly
	Mesh cage clogged	Clean
	Impeller assembly of pump worn	Replace impeller assembly for pump
	Nozzle clogged	Check to make sure the fountain nozzle is clean
Unit switches off after a short running period	Excessive soiled water	Clean impeller housing, bearing and impeller assembly
	Impeller blocked, shaft broken	Remove the inlet screen and/or pump cover, and impeller housing to expose the impeller. Turn the impeller to ensure that it is not broken or jammed by debris. Also check to make sure that the ceramic shaft or bearings are not broken.
	Water temperature too high	Maximum water temperature: +95°F (+35 °C)
Lights do not turn off during	Power supply not connected	Connect adapter power supply, check the supply lines to make sure the voltage is correct
	Power supply damage	Check to see if the power cord is not cut or damaged.