



Item # 60028

Pressurized Biological Filter with UV Light (Model #PF1600UV)

Questions, Problems, Missing Parts?

Before returning to retailer, please call customer service at (866) 728-6187 from 9am – 5pm (EST), Mon – Fri or e-mail customerservice@srg-usa.com.

PLEASE READ ALL INSTRUCTIONS BEFORE ASSEMBLY.

Unpack all parts from the carton to ensure there are no missing or damaged parts. If any parts are missing or damaged, do not attempt to assemble or use the product. Please contact customer service for replacement.

Carton Contents

Part #	Description	Quantity
1	Pressure Filter	1
2	Ballast	1
3	UV Bulb	1

Tools Required for Assembly

- Phillips screwdriver

Product Description

The PF1600UV filter is designed for water clarification in ponds and fountains up to 1600 gallons and should be used in conjunction with a pump flow rate of 792 gph maximum – 20 gph minimum. The PF1600UV may be used above ground or partially buried to disguise it within your landscaping. It is a low-maintenance, mechanical / biological filter with UV sterilization to reduce algae. It contains a self-cleaning setting for periodic flushing.



IMPORTANT SAFETY INSTRUCTIONS

- **WARNING**-To guard against injury, basic safety precautions should be observed, including the following.
- **DANGER**-To avoid possible electric shock, special care should be taken as water is employed in the use of this equipment.
- For each of the following situations, do not attempt repairs yourself. Call customer service for the location of an authorized service facility, or discard the product.
- If the product falls into water, DO NOT reach for it! First, unplug it and then retrieve it. If electrical components of the appliance get wet, unplug it immediately.
- Do not operate any product with a damaged cord or plug, or if it is malfunctioning or damaged in any manner.
- Always unplug the product from the outlet before adding or removing parts, before cleaning or when not in use.
- Read and follow all the important notices and warnings on the product.
- This product should only be connected to a power supply receptacle protected by a Ground Fault Circuit Interrupter(GFCI).
- This unit is for seasonal use only. It should not be used in freezing conditions because the lamp sleeve tube will crack, permitting live electrical current to enter the water.
- If the unit is dropped, unplug it and inspect the lamp sleeve for breakage or small cracks. Do not use until this inspection has been carried out.
- Save these instructions for future reference.

Caution

- UV light may cause irritation to the skin and/or eyes. Avoid exposure.
- Prolonged or repeated exposure to UV light may have adverse effects, including severe skin and eye damage. Never look directly into the UV lamp. Seek immediate medical attention for over exposure to UV radiation.
- Please make sure you are using the proper power source as indicated.
- Do not exceed the voltage shown on the ballast.
- Keep the power cord away from high temperatures, heat sources and sharp points or edges to avoid damage to cords which may cause an electrical hazard.
- Do not lift the unit by its power cord.

Assembly Instructions

Estimated Assembly Time: 20 minutes

1. Remove the filter assembly from the package and untie the power cord.
2. Place the filter on a level surface.
3. Press the handle and turn it until it is in between the "CLEAN" and "WORK" position.
4. Use a Phillips screwdriver to remove the four (4) screws around the handle and the one screw at the back of top cover. Lift cover straight up to remove it from the filter head.
5. Twist the UV cap counterclockwise and pull the UV lamp socket out.
6. Insert the UV bulb to the UV lamp socket and re-assemble the UV lamp socket and top cover in reverse order.
7. Once the top cover is secure, press and turn the handle to the "WORK" position.
8. Connect one end of a length of 3/4 in. tubing (not included) to the nozzle marked "IN", and the other end to the pump (not included). (Fig.1)
9. Connect another length of tubing to the nozzle marked "OUT". Attach the other end of the tubing to a spitter, waterfall, fountain or other water feature of your choice, directing the flow of water back into the pond. (Fig.1)
10. The filter is not designed to be submerged. Place the filter in a clean, dry area.
11. Connect the lamp power cord to the power source.
13. To operate the pressurized filter, the handle should be in the "WORK" position (Fig.2).
14. To clean the pressure bucket, press and turn the handle to the "CLEAN" position (Fig. 2).
15. To optimize the UV clarifier performance, the ideal flow rate of the pump should be 792 gph or less with a minimum of 20 gph.

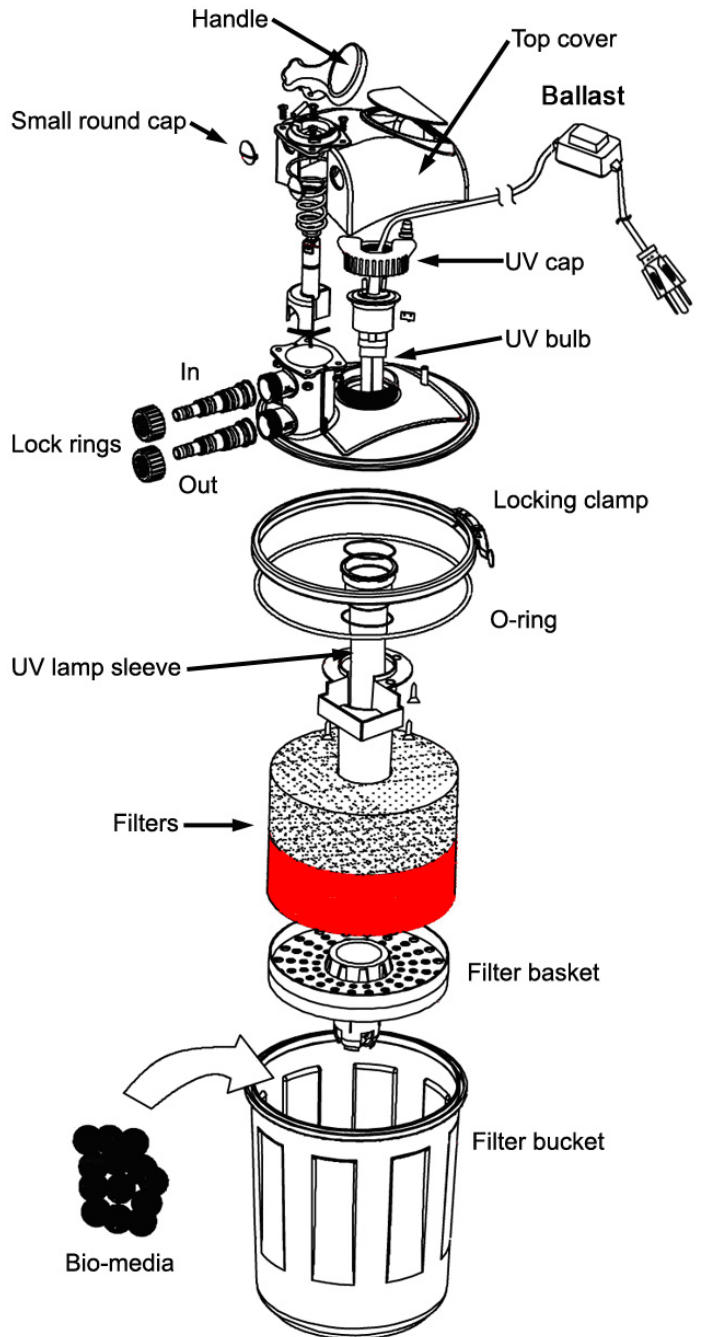


Fig. 1

Handle Position

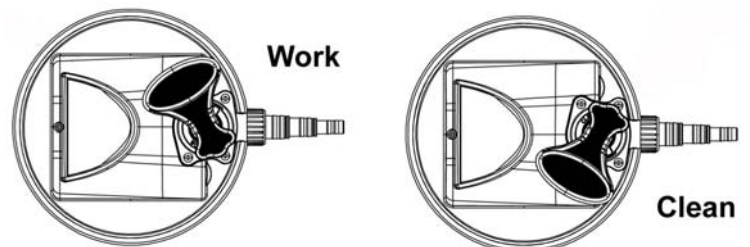


Fig. 2

Important Note:

This product is designed to prohibit operation unless it is fully assembled with the UV lamp base screwed completely into the lamp housing. UV rays are harmful to your eyes and skin. Do not attempt to operate this product unless the UV lamp is completely assembled within the lamp housing.

Self Cleaning Function

The pressurized filter is equipped with a specially developed backwash cleaning system and does not need to be disassembled to be cleaned.

1. Turn the power off to the pump connected to your pressurized filter.
2. Disconnect your water feature tube attached to the "OUT" nozzle and attach a separate waste tube leading to your waste water collection.
3. Move the handle from "WORK" to "CLEAN" and switch your pump on.
4. The water flow is now reversed through the filter media.
5. The solids are expelled from the pressure filter via the UV chamber and waste connection. Continue the cleaning process until all the dirt solids are expelled and clear water is discharged from filter.

The frequency of cleaning varies according to pond size, however, it is recommended to backwash the pressurized filter at least once a month, especially during the warmer summer months. You can also backwash the pressurized filter if you notice a significant drop in water clarity.

Replacing the Bulb (Bulb Type – 7 Watt UV)

The UV lamp has a projected life of 4,000 hours, which means that if you use the light continuously for 5 months per year, in most regions of the country, it will last one year. The unit should remain on 24 hours a day throughout the season. For the best possible performance, replacement of the lamp is recommended every year because it slowly degrades with use. While you may be able to see visible light through the the UV safe clear plastic cap on the top cover, the lamp will produce visible light long after it has stopped producing the UV wavelength.

The quartz sleeve should be cleaned periodically to eliminate dirt or lime scale build-up that will block the UV light and reduce its efficiency. Clean the bulb sleeve with self-cleaning function.

To replace the bulb:

- Disconnect the UV lamp from the power source.
- Let the lamp cool and then disassemble the filter as in Assembly steps 2-6 shown above (Fig.1).
- Remove the UV bulb from the lamp socket by pulling firmly on the base of the UV bulb.
- Replace the UV bulb with an approved UV bulb only.
- Insert the new bulb into the socket and place it back into the lamp sleeve.
- Reassemble the lamp and top cover assembly before reconnecting to the power source.

Winterizing

It is necessary to drain the water from the pressurized filter in those areas that experience freezing temperatures in the winter.

1. Turn your pump off and disconnect the power to the pressurized filter.
2. Detach the hoses to the pressurized filter and unlock the filter head from the filter bucket by pulling the lever of the metal clamp to release it.
3. Pull the filter head assembly straight up to access the filter sponges.
4. Completely drain the filter bucket and clean the filter sponges, filter basket, and bio-media with fresh water and dry completely before storing indoors.

If your filter is buried, follow steps 1-4 above and store the filter head indoors. You may leave the filter bucket buried, but, cover it to prevent water from collecting inside which may freeze and crack the bucket.

Troubleshooting

My valve handle is difficult to turn...

- Handle was switched while pump was on. Always turn pump off prior to turning handle

The flow out of the filter is considerably slower, and I have to backwash more frequently...

- Check pump for any malfunctions
- Check filter basket for large leaves, plant material, etc

My water is murky/brown or green...

- Check pump for malfunctions
- UV lamp sleeve may need cleaning or replacing

My filter leaks from the clamp...

- The O-ring is pinched. Open clamp and make sure O-ring is seated properly.

My filter leaks from the nozzles...

- The nozzle lock rings may be loose. Check and retighten lock rings.

If you cannot troubleshoot, please contact customer service.

Product Specifications

Model Number	PF1600UV
Rated Voltage	120 V
Rated Frequency	60 Hz
Rated Input	12 W
UV light model number	ZW7D12W-H115
UV light rated power	7 W
Protection Against Moisture	IPX7
Operation Mode	Continuous
Intake quantity requirement	792 gph

Printed in China