SunSun CPA-5000

SunSun CPA-5000 Pressure Pond Filter

USER MANUAL

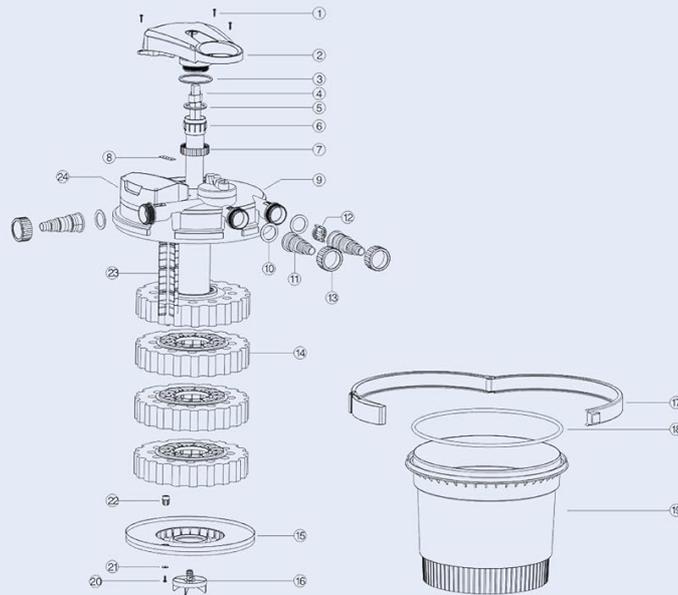Model: CPA-5000 | Brand: SunSun

1. Introduction

The SunSun CPA-5000 Pressure Pond Filter is designed to provide clear and healthy water for your pond. It combines mechanical and biological filtration with an integrated UV-C sterilizer to effectively remove suspended particles, harmful bacteria, and algae. Its compact design allows for flexible installation, either above ground or partially buried.

2. Safety Instructions

- Always disconnect the power supply before performing any maintenance or cleaning.
- Ensure all electrical connections are waterproof and protected from moisture.
- Do not operate the filter if the power cord or housing is damaged.
- The UV-C lamp emits harmful radiation. Never look directly at the lit UV-C lamp.
- Keep the filter out of reach of children and pets.
- Install the filter at a safe distance from the pond edge to prevent accidental immersion.

3. Product Components

Familiarize yourself with the components of your CPA-5000 filter. Refer to the diagram below for a visual representation of the parts.

Figure 1: Exploded view of the CPA-5000 filter.

CPA-5000

1	Vis 1	7	Écrou de fixation	13	Écrou de fixation entrée et sortie	19	Bac de récupération
2	Unité de raccordement	8	Joint en caoutchouc	14	Éponge	20	Vis 2
3	Joint torique 1	9	Couvercle	15	Support de l'éponge	21	Rondelle
4	Lampe UV-C	10	Joint	16	Fixation	22	Palier
5	Joint torique 2	11	Entrée et sortie	17	Collier de serrage	23	Mécanisme de nettoyage
6	Tube verre en quartz	12	Débitmètre	18	Joint torique 3	24	Moteur

CPA-5000 Parts List

No.	Component	No.	Component
1	Screw 1	13	Inlet/Outlet Fixing Nut
2	Connection Unit	14	Sponge
3	O-ring 1	15	Sponge Support
4	UV-C Lamp	16	Fixation
5	O-ring 2	17	Clamping Collar
6	Quartz Glass Tube	18	O-ring 3
7	Rubber Nut	19	Collection Tray
8	Rubber Gasket	20	Screw 2
9	Cover	21	Washer

No.	Component	No.	Component
10	Joint	22	Bearing
11	Inlet and Outlet	23	Cleaning Mechanism
12	Flow Meter	24	Motor

4. Setup

4.1 Placement

The CPA-5000 filter offers flexible installation options:

- **Above Ground:** Place the filter on a stable, level surface at least 2 meters away from the pond edge to prevent it from falling into the pond.
- **Partially Buried:** The filter can be partially buried in the ground for a discreet integration into your garden landscape. Ensure the lid remains accessible for maintenance.

Figure 2: Above-ground installation.

Figure 3: Partially buried installation.

4.2 Connecting Hoses

1. Connect the pond pump outlet hose to the filter's inlet connection.

2. Connect the filter's outlet connection to a return hose that directs purified water back into the pond.

3. Ensure all hose connections are secure and leak-free.

4.3 Electrical Connection

Connect the filter's power cable to a suitable, protected outdoor power outlet. Ensure the power supply matches the filter's specifications (230V/50Hz).

Figure 4: Filter connected and ready for operation.

5. Operating Instructions

5.1 Initial Startup

1. After installation and hose connections are complete, ensure the filter is filled with water.
2. Switch on the pond pump first, allowing water to flow through the filter.
3. Then, connect the filter's power supply. The UV-C indicator light should illuminate, confirming operation.

5.2 Normal Operation

The filter operates continuously to maintain water clarity. The integrated UV-C sterilizer works to eliminate harmful microorganisms and floating algae. The mechanical and biological filter media process the water as it passes through.
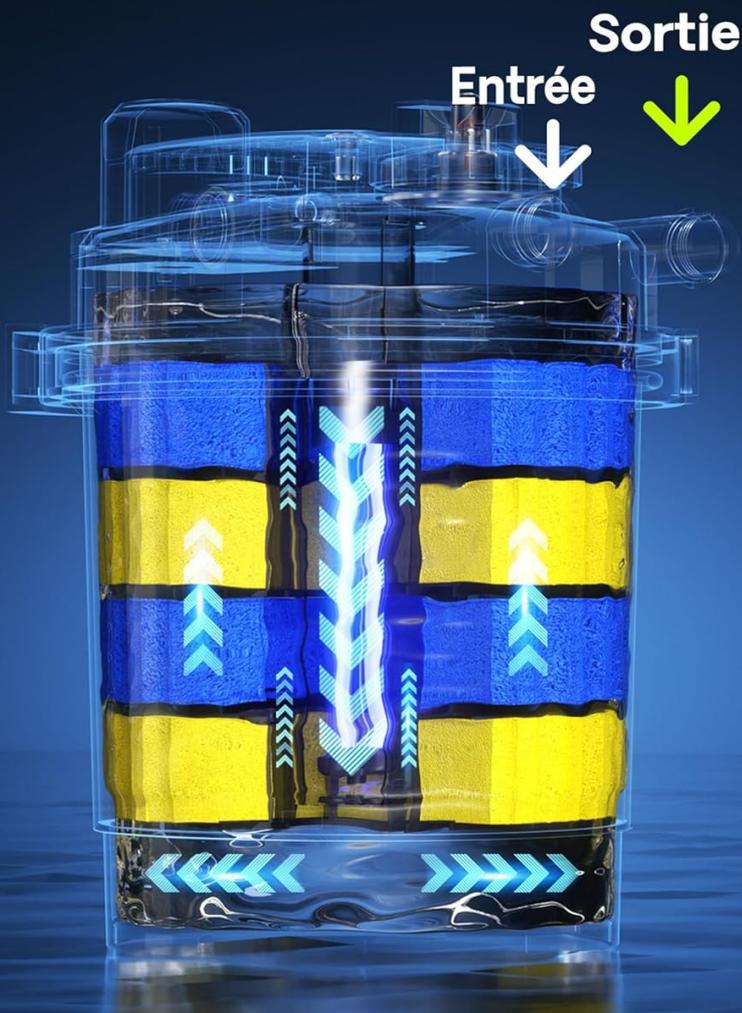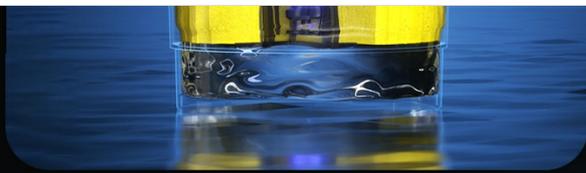
Figure 5: Water flow through the filter.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your filter.

6.1 EasyClean Automatic Cleaning System

The EasyClean system allows for convenient cleaning of the filter sponges without opening the housing.

1. Connect a drainage hose to the dedicated waste outlet.

2. Turn the handle on the filter lid to the 'Clean' position. This activates the internal motor, causing the sponges to rotate and release trapped debris. The indicator light may turn red.

3. Allow the cleaning process to run for approximately 3 minutes. The dirty water will exit through the drainage hose and can be used for garden irrigation.

4. Once cleaning is complete, turn the handle back to the 'Filter' position, close the waste outlet valve, and remove the drainage hose.

Puissance totale	Débit max.	Code IP	Longueur du câble
60 W	**8000 l/h**	**IP44**	**5 m**

Procédé de nettoyage du matériau de filtration

Figure 6: EasyClean process steps.

6.2 UVC Lamp Replacement

The UV-C lamp has an effective lifespan of approximately 6000-8000 operating hours. It is recommended to replace the lamp annually, ideally in spring, to ensure optimal performance for the new pond season.

Stérilisation puissante et efficace par UV-C

Réduit les bactéries nocives et les agents pathogènes

Élimine efficacement les algues flottantes

Puissance UV-C
11 W

Figure 7: Integrated UV-C sterilizer.

6.3 Filter Sponge Maintenance

Periodically inspect the filter sponges for excessive clogging. While the EasyClean system handles routine cleaning, manual inspection and occasional replacement may be necessary. The filter contains both coarse (blue) and fine (yellow) sponges for comprehensive filtration.

Figure 8: Coarse and fine filter sponges.

7. Troubleshooting

Problem	Possible Cause	Solution
Cloudy water	Clogged filter sponges, worn UVC lamp, insufficient biological activity.	Perform EasyClean cycle. Check and replace UVC lamp if necessary. Ensure proper pond water parameters.

Problem	Possible Cause	Solution
Reduced water flow	Clogged filter sponges, pump malfunction, kinked hoses.	Perform EasyClean cycle. Check pond pump for blockages. Inspect hoses for kinks or debris.
UVC indicator light off	UVC lamp faulty, power supply issue.	Check power connection. Replace UVC lamp.
Water leaking from filter	Loose connections, damaged O-rings or seals.	Tighten all connections. Inspect and replace O-rings or seals as needed.

8. Specifications

Figure 9: Product dimensions.

Feature	Value
Model Number	51628
Dimensions (L x W x H)	38.2 x 38.2 x 41.8 cm
Weight	7.06 kg
Max Flow Rate	8000 L/h
UVC Power	11 W
Total Power Consumption	60 W
Cable Length	5 m
IP Code	IP44
Recommended Pond Volume (with fish)	Up to 4 m³
Recommended Pond Volume (without fish)	Up to 8 m³

9. Warranty and Support

This product comes with a standard manufacturer's warranty. For warranty claims, technical support, or spare parts, please contact your retailer or visit the official SunSun website. Keep your proof of purchase for any warranty-related inquiries.
For further assistance, you may visit the SunSun Brand Store.