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- › [WilTec](#) /
- › [SunSun CPF-380 Pressure Filter User Manual](#)

WilTec CPF-380

SunSun CPF-380 Pressure Filter with UVC User Manual

Model: CPF-380 (Manufacturer Model No.: 51043) | Brand: WilTec

1. INTRODUCTION

The SunSun CPF-380 Pressure Filter with integrated 11W UVC clarifier is an advanced filtration system designed to maintain clear and healthy water in your pond. This system combines mechanical and biological filtration with powerful UVC sterilization to effectively remove suspended particles, harmful bacteria, and floating algae, ensuring optimal water quality for your aquatic environment.



Figure 1: SunSun CPF-380 Pressure Filter Unit

This image shows the complete SunSun CPF-380 pressure filter unit, highlighting its compact design and the inlet/outlet connections on the top.

2. KEY FEATURES

- **Integrated UVC Clarifier:** Features an 11W UV-C lamp for effective sterilization, reducing harmful bacteria and eliminating floating algae.
- **Multi-Stage Filtration:** Combines mechanical filtration (via 5 filter sponges) and biological filtration (via bio-balls) for comprehensive water purification.
- **High Capacity:** Suitable for ponds up to 12,000 liters (without fish) or 6,000 liters (with fish).
- **High Flow Rate:** Supports a maximum pump capacity of 10,000 liters per hour.
- **Durable Design:** Robust construction with an IP44 rating for outdoor use.
- **Easy Installation:** Designed for straightforward setup, either above ground or partially buried.

Filtre d'étang sous pression



Lampe
UV-C 11 W



Filtration
mécanique
par 5 éponges

Longueur du câble

5 m

Puissance totale

15 W

Débit max.

10000 l/h

Code IP

IP44



Figure 2: Internal Filtration System

This diagram illustrates the internal components of the CPF-380 filter, showing the water flow path through the UVC lamp and the multiple layers of mechanical filtration sponges.

Stérilisation puissante et efficace par UV-C



Réduit les bactéries nocives et les agents pathogènes



Élimine efficacement les algues flottantes



Figure 3: 11W UVC Sterilization

A close-up view of the powerful 11W UV-C lamp, which is crucial for sterilizing pond water by reducing harmful microorganisms and preventing algae blooms.

20m²

Superficie de la surface filtrante

Filtration mécanique par 5 éponges

Pour une eau propre



Figure 4: Mechanical and Biological Filtration Media

This image displays the filter sponges (mechanical filtration) and bio-balls (biological filtration), demonstrating how they work together to purify pond water by trapping debris and providing a surface for beneficial bacteria.

3. SETUP AND INSTALLATION

Before installation, ensure all components are present and undamaged. The CPF-380 filter can be installed either above ground or partially buried, depending on your pond setup and aesthetic preference.

3.1 Placement

- Place the filter on a stable, level surface near your pond.
- Ensure it is at least 2 meters away from the water's edge to prevent accidental submersion.
- If burying, ensure the top of the filter remains accessible for maintenance.



Figure 5: Filter Placement by Pond

This image shows the CPF-380 filter correctly positioned next to a pond, demonstrating a typical installation scenario with the inlet and outlet hoses connected.

3.2 Hose Connections

- Connect the pond pump's outlet hose to the filter's inlet (marked 'Entrée' or 'Inlet').
- Connect the filter's outlet (marked 'Sortie' or 'Outlet') to a return point in your pond, ensuring water flows back into the pond.
- The filter supports hose diameters of 20mm, 25mm, 32mm, and 38mm.

Dimensions du produit



Figure 6: Product Dimensions and Connection Details

This image provides detailed dimensions of the CPF-380 filter and illustrates the various compatible hose diameters for both inlet and outlet connections.

3.3 Electrical Connection

- Ensure the filter is connected to a grounded power outlet with appropriate voltage (230V).
- The power cable length is 5 meters.
- Always disconnect power before performing any maintenance or handling the unit.

4. OPERATION

Once installed and connected, the filter operates continuously to purify your pond water. The UVC lamp works to clump fine particles and kill harmful microorganisms, while the mechanical and biological media remove physical debris and process dissolved waste.

4.1 Initial Start-up

- Ensure all connections are secure and the filter is properly positioned.
- Turn on the pond pump first, allowing water to fill the filter.
- Then, connect the filter's power supply to activate the UVC lamp.
- It may take several days or weeks for the pond water to become completely clear, especially if it was very dirty initially.



Figure 7: Pond Water Clarity Transformation

This visual comparison demonstrates the effectiveness of the CPF-380 filter, showing a pond with murky, algae-laden water before use and clear, healthy water with reduced algae after the filter has been in operation.

5. MAINTENANCE

Regular maintenance is crucial for the optimal performance and longevity of your CPF-380 filter.

5.1 Cleaning Filter Sponges

- The filter sponges should be cleaned regularly, depending on the pond's dirt load.

- Disconnect the power supply to the filter and pump before opening the unit.
- Remove the filter lid and carefully take out the sponges.
- Rinse the sponges thoroughly with pond water (not tap water, to preserve beneficial bacteria) until clean.
- Reassemble the filter, ensuring all seals are correctly seated.

5.2 UVC Lamp Replacement

- The UVC lamp has an effective lifespan of approximately 8,000 operating hours (about 1 year of continuous use).
- Replace the lamp annually, preferably at the start of the pond season, to ensure maximum sterilization efficiency.
- Always disconnect power and allow the lamp to cool before attempting replacement.
- Handle the new lamp by its ends to avoid touching the glass, as oils from your skin can reduce its effectiveness.

5.3 Quartz Sleeve Cleaning

- Periodically clean the quartz sleeve surrounding the UVC lamp to ensure maximum UV light penetration.
- Gently wipe the sleeve with a soft cloth to remove any mineral deposits or algae buildup.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pond water remains cloudy	Clogged filter sponges; UVC lamp ineffective/burnt out; Pond too large for filter capacity; Insufficient pump flow.	Clean filter sponges; Replace UVC lamp; Verify filter capacity matches pond size; Check pump for blockages or insufficient power.
Water not flowing through filter	Pump not working; Hoses kinked or blocked; Filter inlet/outlet blocked.	Check pump power and operation; Straighten hoses; Clear any blockages in hoses or filter connections.
UVC lamp not lighting up	Lamp burnt out; Ballast faulty; Power supply issue.	Replace UVC lamp; Check power connection; Consult a qualified electrician if ballast is suspected.

7. TECHNICAL SPECIFICATIONS

Specification	Value
Model Number	51043
Product Dimensions (L x W x H)	38 x 38 x 52.5 cm
Weight	6 Kilograms
UVC Lamp Power	11 W
Max. Flow Rate	10,000 Liters per hour
Total Power Consumption	15 W
Voltage	230 Volts
Cable Length	5 meters

Specification	Value
IP Rating	IP44
Recommended Pond Size (No Fish)	Up to 12,000 Liters
Recommended Pond Size (With Fish)	Up to 6,000 Liters
Manufacturer	WiTec
Country of Origin	China

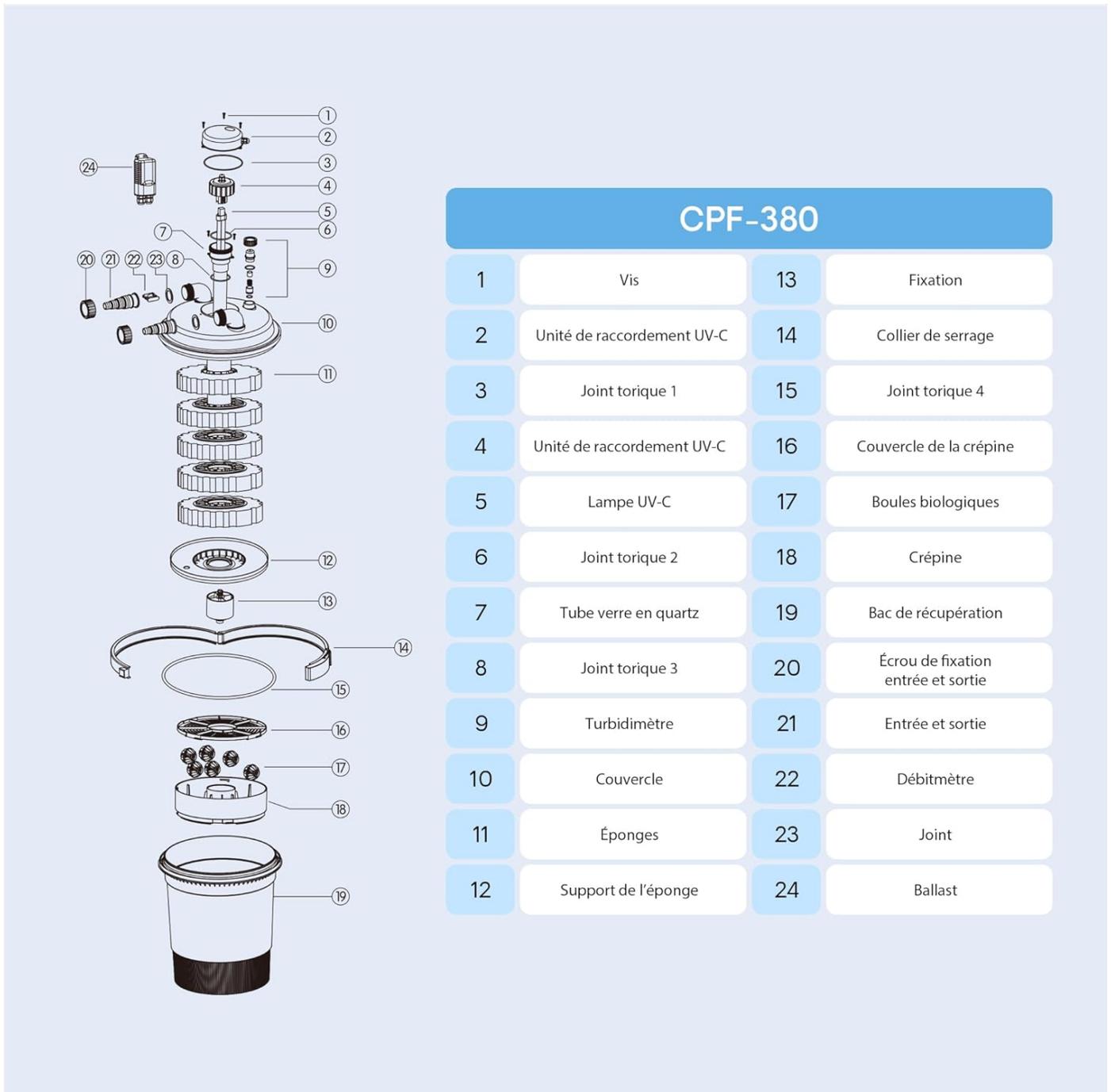


Figure 8: Exploded View and Parts List

This diagram provides an exploded view of the CPF-380 filter, detailing its individual components and their corresponding part numbers for identification and replacement purposes.

8. WARRANTY AND SUPPORT

This product is covered by a standard return policy allowing for refund or replacement within 30 days of purchase, as per Amazon's terms. For further support, technical assistance, or spare parts, please contact WilTec customer service or visit the official WilTec store on Amazon:

[Visit the WilTec Store](#)

