

## SunSun CTP-8003

# SunSun CTP-8003 SuperECO Pond Pump User Manual

Model: CTP-8003 | Brand: SunSun

## 1. INTRODUCTION

Thank you for choosing the SunSun CTP-8003 SuperECO Pond Pump. This pump is designed for efficient and versatile use in garden ponds, functioning as both a filter pump and a fountain pump. Its energy-saving design and adjustable features ensure optimal water circulation and aeration for a healthy aquatic environment. Please read this manual thoroughly before installation and operation to ensure safe and correct usage.





Image 1.1: SunSun CTP-8003 SuperECO Pond Pump with fountain attachment.

## 2. SAFETY INSTRUCTIONS

---

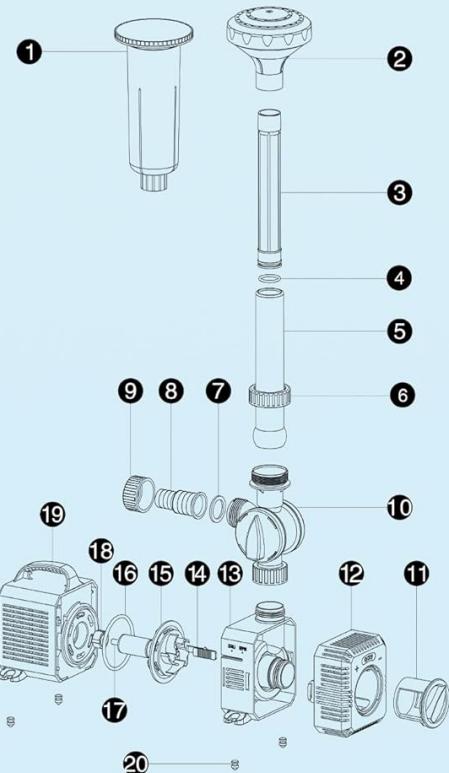
Always observe the following safety precautions to prevent injury or damage:

- Ensure the power supply matches the pump's specifications (voltage and frequency).
- Do not operate the pump if the power cable or plug is damaged.
- Never handle the pump or plug with wet hands.
- Disconnect the power supply before performing any maintenance, cleaning, or installation work.
- The pump is designed for use in water only. Do not run dry.
- Keep children and pets away from the pump and electrical connections.
- Ensure all electrical connections are protected from water.
- Do not use the pump for purposes other than those specified in this manual.

### 3. PRODUCT COMPONENTS

The SunSun CTP-8003 pump comes with various components for versatile installation and operation. Refer to the diagram below for an overview of the parts.

## CTP 8003



nr	Namn	nr	Namn
1	Munstycke klockformad fontän	11	Flödesregleringsventil
2	Munstycke klassisk fontän	12	Filterkorg
3	Kopplingsrör (litet)	13	Pumphölse
4	O-ring	14	Säkerhetssprint
5	Kopplingsrör (stort)	15	Rotorenhet
6	Låsmutter	16	O-ring
7	Tätningsring	17	Axel
8	Vattenutlopp	18	Lager
9	Utlöppsmutter	19	Elmotor
10	T-koppling	20	Gummifötter

Image 3.1: Exploded view of CTP-8003 components.

#### Component List:

No.	Name	No.	Name
1	Bell-shaped nozzle	11	Flow regulation valve
2	Classic fountain nozzle	12	Filter basket
3	Small connecting pipe	13	Pump housing
4	O-ring	14	Safety pin

No.	Name	No.	Name
5	Large connecting pipe	15	Rotor unit
6	Lock nut	16	O-ring
7	Sealing ring	17	Axle
8	Water outlet	18	Bearing
9	Outlet fitting	19	Electric motor
10	T-coupling	20	Rubber feet

## 4. SETUP AND INSTALLATION

---

The CTP-8003 pump offers flexible installation options, either submerged in water or used externally. It also includes a telescopic tube and various fountain brackets for customization.

### 4.1 Installation Options

# Två möjligheter för installation

Med avtagbart hölje för att passa båda funktioner



Image 4.1: Two possibilities for installation.

# Produktens dimensioner

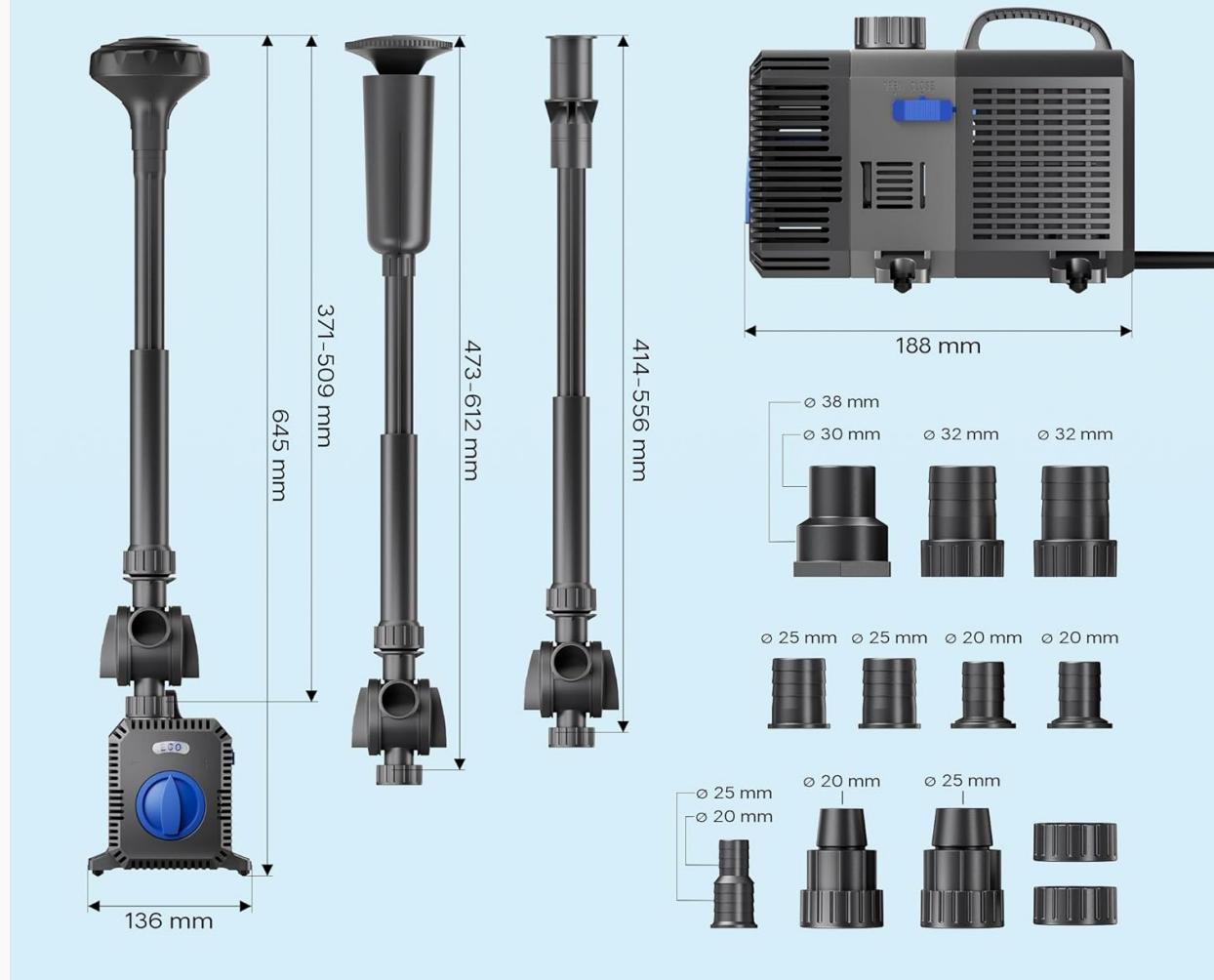


Image 4.2: Product dimensions and hose fittings.

## 4.1.1 Submerged Installation (In-water use)

1. Attach the desired fountain nozzle (bell-shaped or classic) to the telescopic tube.
2. Connect the telescopic tube assembly to the pump's outlet.
3. If using as a filter pump, connect the appropriate hose (25/33/38 mm) to the bypass outlet on the T-coupling and route it to your filter system.
4. Place the pump securely on the bottom of the pond, ensuring it is stable and fully submerged.
5. Ensure the power cable is routed safely and connected to a GFCI-protected outlet.

## 4.1.2 External Installation (Out-of-water use)

For external use, a skimmer is required to draw water into the pump.

1. Position the pump on a stable, level surface near the pond, ensuring it is protected from direct weather exposure.
2. Connect the inlet of the pump to a skimmer using appropriate hosing.
3. Connect the outlet of the pump to your filter system or fountain feature using appropriate hosing (25/33/38 mm).

4. Ensure all connections are secure and watertight.
5. Ensure the power cable is routed safely and connected to a GFCI-protected outlet.

## 5. OPERATION

The SunSun CTP-8003 pump is designed for continuous operation and offers adjustable flow control for both filter and fountain functions.



Image 5.1: Pump and fountain functions.

# Justerbart flöde och effektiv drift

Låg energiförbrukning och hög flödeshastighet



Energieffektiv

## Flödesreglerings- ventil

Anpassa flödet  
till aktuella förhållanden



Image 5.2: Adjustable flow regulation valve.

### 5.1 Flow Regulation

The pump features a stepless flow regulation valve (Component 11) that allows you to adjust the water flow. This is particularly useful for:

- **Fountain Adjustment:** Control the height and pattern of your fountain by rotating the flow regulation valve.
- **Filter Optimization:** If using the bypass for a filter, you can optimize the water flow to the filter unit while still allowing excess water to flow to the fountain.

### 5.2 Starting the Pump

1. Ensure the pump is correctly installed and all connections are secure.
2. For submerged installation, ensure the pump is fully underwater.
3. Plug the power cord into a GFCI-protected electrical outlet. The pump will start automatically.
4. Adjust the flow rate as desired using the regulation valve.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your pump.

### 6.1 Cleaning the Pump

- Disconnect Power:** Always unplug the pump from the power source before any cleaning or maintenance.
- Remove from Water:** Carefully remove the pump from the pond or disconnect it from external plumbing.
- Disassemble:** Open the pump housing (Component 13) and remove the filter basket (Component 12) and rotor unit (Component 15).
- Clean Components:** Rinse all parts, including the impeller and housing, with clean water. Use a soft brush to remove any debris, algae, or mineral deposits. Ensure the axle (Component 17) and bearings (Component 18) are free of obstructions.
- Inspect:** Check O-rings (Components 4, 16) and seals for wear or damage. Replace if necessary.
- Reassemble:** Reassemble the pump in reverse order, ensuring all parts are correctly seated and secured.

### 6.2 Winter Storage

During freezing temperatures, remove the pump from the pond. Clean it thoroughly and store it in a frost-free location, fully submerged in water or in a bucket of water to keep seals moist.

## 7. TROUBLESHOOTING

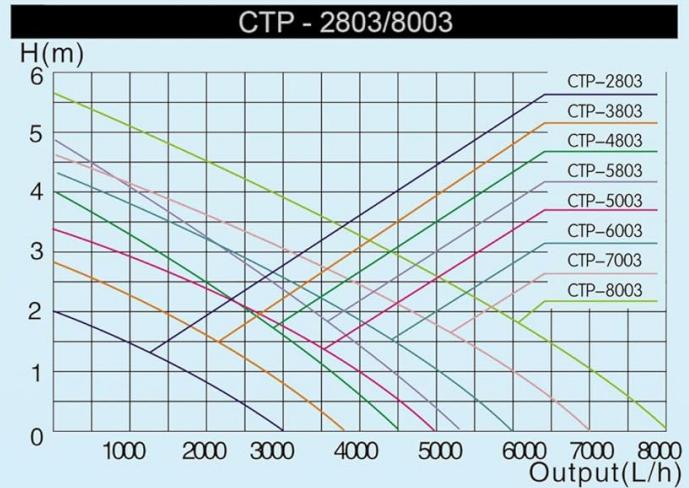
If your pump is not functioning correctly, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Pump does not start	No power supply Impeller jammed Damaged motor	Check power connection and GFCI outlet Clean impeller and housing Contact customer support
Reduced water flow	Clogged intake/outlet Impeller dirty Flow regulation valve closed Hose kinked	Clean intake and outlet Clean impeller Adjust flow regulation valve Straighten hose
Pump is noisy	Debris in impeller Pump not stable Worn bearings	Clean impeller Ensure pump is on a stable surface Contact customer support
Water leakage	Loose connections Damaged O-rings/seals	Tighten all connections Inspect and replace O-rings/seals

## 8. SPECIFICATIONS

Technical data for the SunSun CTP-8003 SuperECO Pond Pump:

# Produktdetaljer



Max. uppfördringshöjd

**5.6 m**

Flödeshastighet

**8000 l/h**

Effekt

**70 W**

Kapslingsklass

**IPX8**

Image 8.1: Performance details for CTP series pumps.

Feature	Specification
Model	CTP-8003
Power Consumption	70 W
Maximum Flow Rate	8000 L/h
Maximum Flow Height	5.6 m
Hose Fittings	25 / 33 / 38 mm (1 - 1½ inch)
Cable Length	10 m
Protection Class	IPX8
Dimensions (Product)	29.01 x 24.99 x 19.99 cm
Weight	3.46 kg

Feature	Specification
Material	Plastic
Color	Black, Blue

## 9. WARRANTY INFORMATION

This product is covered by a standard manufacturer's warranty against defects in materials and workmanship. The warranty period typically begins from the date of purchase. Please retain your proof of purchase for any warranty claims. For specific warranty terms and conditions, refer to the documentation provided with your purchase or contact the retailer.

## 10. CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need to report a problem with your SunSun CTP-8003 pump, please contact your retailer or the manufacturer's customer service department. Provide your product model number (CTP-8003) and details of the issue for efficient support.

© 2023 SunSun. All rights reserved. Information in this manual is subject to change without notice.

### Related Documents - CTP-8003

  <small>Read and follow the safety instructions and safety information in this manual. Technical drawings, technical data, dimensions, illustrations and all other information contained in this manual are approximate. SunSun reserves the right to make changes to its products without notice or obligation. SunSun is not responsible for typographical or photographic errors in this manual.</small>	<p><a href="#"><u>Sunsun Pond Pump CTP Series Operation Manual</u></a></p> <p>Comprehensive operation manual for the SunSun Pond Pump CTP series, covering models 50199 through 50220. Includes safety instructions, installation guidance, maintenance tips, technical specifications, and disposal regulations.</p>
  <small>Read and follow the safety instructions and safety information in this manual. Technical drawings, technical data, dimensions, illustrations and all other information contained in this manual are approximate. SunSun reserves the right to make changes to its products without notice or obligation. SunSun is not responsible for typographical or photographic errors in this manual.</small>	<p><a href="#"><u>SUNSUN Adjustable SuperECO Pond Pump CET-8000 &amp; CET-15000 Operation Manual</u></a></p> <p>Official operation manual for the SUN █ █ █ █ █ SUN Adjustable SuperECO pond pump models CET-8000 and CET-15000. Learn about features, installation, operation, and troubleshooting for efficient pond and aquarium water circulation.</p>

 <p>Operation Manual Bio Pond Filter CBF-350, CBF-350B, CBF-350C</p> <p><b>SUNSUN</b> TecTec111P-01340</p> <p>Please read the assembly, operation, and safety guidelines before using the filter. This manual contains important information on assembly, installation, operation, and use of the equipment. Please keep the manual for future reference.</p>	<p><a href="#"><b>Sunsun Bio Pond Filter CBF-350 Series Operation Manual</b></a></p> <p>Comprehensive operation manual for SunSun Bio Pond Filters CBF-350, CBF-350B, and CBF-350C (models 50107, 50108, 50114). Includes detailed technical specifications, safety guidelines, installation instructions, and maintenance procedures for optimal pond water quality.</p>
 <p>Instalatiehandleiding Onderhoudshandleiding Serie CPF, voor alle modellen SUN SUN</p> <p><b>SUNSUN</b> TecTec111P-01340</p> <p>Gebruik alleen voor buiten gebruik. De filter moet niet worden gebruikt voor binnen gebruik. De filter moet niet worden gebruikt voor binnen gebruik. De filter moet niet worden gebruikt voor binnen gebruik. De filter moet niet worden gebruikt voor binnen gebruik.</p> <p>Print voor gebruik buiten gebruik. Print voor gebruik buiten gebruik. Print voor gebruik buiten gebruik. Print voor gebruik buiten gebruik.</p>	<p><a href="#"><b>SUNSUN Pressurized Pond Filter CPF Series - User Manual</b></a></p> <p>Comprehensive user manual for SUNSUN CPF series pressurized pond filters, covering installation, operation, technical specifications, maintenance, and safety instructions for maintaining a healthy pond ecosystem.</p>
 <p>Operation Manual Floating Pond Skimmer with Pump and Fountain CSP-250</p> <p><b>SUNSUN</b> TecTec111P-01340</p> <p>Please read the assembly, operation, and safety guidelines before using the skimmer. This manual contains important information on assembly, installation, operation, and use of the equipment. Please keep the manual for future reference.</p>	<p><a href="#"><b>SunSun CSP-250 Floating Pond Skimmer Operation Manual</b></a></p> <p>Comprehensive operation manual for the SunSun CSP-250 Floating Pond Skimmer with Pump and Fountain. Includes safety guidelines, technical data, installation instructions, maintenance, and disposal regulations.</p>
 <p>User's manual Controllable SuperECO Pond Pump CET-26000, CET-30000, CET-35000</p> <p><b>SUNSUN</b> TecTec111P-01340</p> <p>Please read the assembly, operation, and safety guidelines before using the pump. This manual contains important information on assembly, installation, operation, and use of the equipment. Please keep the manual for future reference.</p>	<p><a href="#"><b>Sunsun SuperECO Controllable Pond Pump User Manual (CET-26000, CET-30000, CET-35000)</b></a></p> <p>Comprehensive user manual for the SunSun SuperECO series of controllable pond pumps (CET-26000, CET-30000, CET-35000), covering installation, safety, maintenance, troubleshooting, and technical specifications. Provided by WilTec Wildanger Technik GmbH.</p>