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› **TROTEC TWP 11000 ES Submersible Wastewater Pump Instruction Manual**

## TROTEC TWP 11000 ES

# TROTEC TWP 11000 ES Submersible Wastewater Pump Instruction Manual

Model: TWP 11000 ES

## 1. INTRODUCTION

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Thank you for choosing the TROTEC TWP 11000 ES Submersible Wastewater Pump. This powerful 1100-watt pump is designed for efficient water extraction and transfer, capable of pumping up to 20,000 liters per hour. Its robust, encapsulated, and waterproof stainless steel housing ensures durability and reliable performance. This manual provides essential information for the safe and effective setup, operation, and maintenance of your pump. Please read these instructions carefully before first use and keep them for future reference.



**Image 1.1:** The TROTEC TWP 11000 ES Submersible Wastewater Pump. This image shows the complete pump unit with its yellow and black housing, stainless steel motor casing, float switch, power cable, discharge nozzle, and the included nylon rope.

## 2. SAFETY INSTRUCTIONS

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Always observe the following safety precautions to prevent injury and damage to the pump.

- **Electrical Safety:** Ensure the power supply matches the pump's specifications (100 Volts). Always connect the pump to a properly grounded outlet. Do not operate the pump with a damaged power cord or plug. Never immerse the plug or power cord in water.
- **Water Temperature:** The pump is designed for water temperatures up to a maximum of 35°C (95°F). Do not use it for pumping hot water or corrosive liquids.
- **Liquid Type:** This pump is intended for pumping wastewater, clear water, and slightly contaminated water. Do not use it for flammable, explosive, or aggressive liquids, or for food products.
- **Immersion Depth:** Do not exceed the maximum immersion depth of 7 meters.
- **Children and Pets:** Keep children and pets away from the operating pump and the area where water is being pumped.

- **Maintenance:** Always disconnect the pump from the power supply before performing any maintenance, cleaning, or adjustments.
- **Installation:** Ensure the pump is placed on a stable, level surface. Do not suspend the pump by its power cable or discharge hose. Use the provided nylon rope for lowering and retrieving the pump.
- **Float Switch:** Ensure the float switch can move freely and is not obstructed.

### 3. PRODUCT OVERVIEW

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#### 3.1. Components

The TROTEC TWP 11000 ES pump consists of the following main components:

1. **Pump Body:** The main housing, typically yellow and black.
2. **Motor Casing:** Stainless steel, encapsulated and waterproof.
3. **Float Switch:** Automatically controls pump operation based on water level.
4. **Power Cable:** For connecting to the electrical supply.
5. **Discharge Nozzle:** For connecting the discharge hose.
6. **Handle:** Robust handle for carrying and attaching the lowering rope.
7. **Nylon Rope (10m):** Supplied for safe lowering and retrieval of the pump.



**Image 3.1:** A detailed view of the TROTEC TWP 11000 ES pump, highlighting its robust construction and key components like the float switch

and discharge outlet.

## 4. SETUP

### 4.1. Connecting the Discharge Hose

The pump's discharge nozzle is designed for flexible hose connections.

- Attach a suitable discharge hose to the pump's outlet. The pump supports hose diameters of 25 mm (1 inch) and 38 mm (1½ inches).
- Ensure the connection is secure to prevent leaks during operation.
- The discharge nozzle can be rotated 360 degrees to direct the water flow as needed.



**Image 4.1:** Diagram illustrating the compatible hose connection sizes (25/38 mm and 1"/1½") for the pump's discharge outlet.



**Image 4.2:** The pump's discharge nozzle can be rotated 360 degrees for flexible hose positioning.

## 4.2. Positioning the Pump

- Place the pump on a firm, level surface in the water to be pumped. Ensure the intake openings at the bottom of the pump are not obstructed.
- For deeper applications like wells or tanks, use the supplied 10-meter nylon rope. Attach the rope securely to the pump's handle and carefully lower the pump into the water. Do not use the power cable or discharge hose for lowering.
- Ensure the float switch has sufficient space to move freely up and down, as its movement controls the pump's automatic operation.



**Image 4.3:** Illustration of the float switch's movement, which dictates the pump's automatic on/off cycles based on water level.

## 5. OPERATING

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### 5.1. Automatic Operation (Float Switch)

The TROTEC TWP 11000 ES pump features an automatic float switch for hands-free operation.

- Once the pump is connected to the power supply and immersed in water, the float switch will activate the pump when the water level reaches approximately 50 mm.
- The pump will continue to operate until the water level drops to approximately 40 mm, at which point the float switch will turn the pump off.
- Ensure the float switch is positioned so it can move freely and is not restricted by walls or other objects.



**Image 5.1:** Illustration showing the approximate water levels for pump activation (50 mm) and deactivation (40 mm residual water level).

## 5.2. Manual Operation (Continuous Pumping)

For continuous pumping, the float switch can be secured in an upward position.

- To engage manual operation, lift the float switch and secure it in the "on" position using the clip on the pump body.
- In manual mode, the pump will operate continuously, regardless of the water level, until it is manually unplugged or the float switch is released.
- **Caution:** Do not allow the pump to run dry in manual mode, as this can cause damage. Monitor the water level closely.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your pump.

- **Cleaning:** After each use, especially when pumping dirty water, rinse the pump thoroughly with clean water. Remove any debris that may have accumulated around the intake openings or the impeller.
- **Float Switch:** Periodically check the float switch for free movement and ensure it is not clogged with dirt or debris.

- **Storage:** When not in use for extended periods, clean the pump, drain all water, and store it in a dry, frost-free location.
- **Cable and Plug:** Regularly inspect the power cable and plug for any signs of damage. Do not use the pump if the cable or plug is damaged.

## 7. TROUBLESHOOTING

If you encounter issues with your pump, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Pump does not start.	No power supply. Float switch not activated. Impeller blocked.	Check power connection and circuit breaker. Ensure water level is above 50 mm or secure float switch for manual operation. Disconnect power, then check and clear impeller.
Pump runs but no water is discharged.	Discharge hose blocked or kinked. Water level too low. Air lock in the pump.	Check and clear the discharge hose. Ensure pump is fully submerged and water level is sufficient. Lift and lower the pump slightly to release trapped air.
Pump stops unexpectedly.	Water level dropped below 40 mm (automatic mode). Overheating protection activated. Power interruption.	This is normal in automatic mode. If in manual mode, check water level. Allow pump to cool down. Check for blockages or excessive load. Check power supply.
Reduced pumping performance.	Partial blockage of intake or impeller. Hose diameter too small or too long. Excessive head lift.	Clean intake and impeller. Use appropriate hose diameter (25/38 mm). Ensure discharge height is within specifications.

If the problem persists after attempting these solutions, please contact TROTEC customer support.

## 8. SPECIFICATIONS

Detailed technical specifications for the TROTEC TWP 11000 ES Submersible Wastewater Pump:

Feature	Value
Model Number	TWP 11000 ES
Brand	TROTEC
Power Source	Electric Cable
Voltage	100 Volts
Power (Wattage)	1100 Watts

Feature	Value
Maximum Flow Rate	20,000 Liters per hour
Maximum Head Lift	354.33 Inches (approx. 9 meters)
Maximum Immersion Depth	7 meters
Minimum Start Water Level	50 mm
Minimum Stop Water Level (Residual)	40 mm
Maximum Water Temperature	35°C
Material	Stainless Steel
Color	Black, Yellow
Product Dimensions (L x W x H)	22.5 x 22.5 x 37 cm
Item Weight	500 Grams
Included Components	Pump, 10m Nylon Rope
Compatible Hose Diameters	25 mm (1"), 38 mm (1½")
International Article Code (EAN)	04052138101155



**Image 8.1:** Technical diagram of the TROTEC TWP 11000 ES, showing key dimensions, operating parameters like max immersion depth, max water temperature, and flow rate.

## 9. WARRANTY AND SUPPORT

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TROTEC provides a warranty for its products in accordance with local regulations.

- **Spare Parts Availability:** Spare parts for this model are available for 2 years.
- **Warranty Claims:** For warranty claims or technical support, please contact your retailer or the official TROTEC customer service. Keep your proof of purchase handy.
- **Online Support:** Visit the official TROTEC website for further information, FAQs, and contact details.