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Kärcher 1.645-800.0

Kärcher SP 9.500 Submersible Dirty Water Pump User Manual

Model: 1.645-800.0 | Brand: Kärcher

1. Introduction

The Kärcher SP 9.500 Dirty Water Submersible Pump is designed for efficient removal of dirty water from various sources. It can pump up to 9,500 liters of water per hour, handling dirt particles up to 20 mm in size. This versatile pump is ideal for draining garden ponds, transferring rainwater from barrels, or emptying flooded basements and small construction pits. Its robust ceramic mechanical seal and oil chamber ensure exceptional durability and reliable performance even under intensive use. The integrated float switch provides automatic operation, preventing dry running and activating the pump as water levels rise. For continuous operation, the float switch can be fixed, allowing the pump to reduce residual water levels down to 25 mm. The practical Quick Connect hose connector simplifies the attachment of 1-inch, 1 1/4-inch, and 1 1/2-inch hoses, making it compatible with most commercial hoses.

2. Safety Instructions

Always read and understand all safety instructions before operating the pump. Failure to follow these instructions may result in electric shock, fire, or serious injury.

2.1 General Safety

- Keep children and unauthorized persons away from the operating area.
- Do not operate the pump if it is damaged.
- Ensure the pump is stable and securely placed before operation.
- Wear appropriate personal protective equipment (PPE) such as gloves and eye protection.

2.2 Electrical Safety

- Connect the pump only to a properly grounded outlet.
- Do not use extension cords unless absolutely necessary and ensure they are rated for outdoor use and the pump's power requirements.
- Never immerse the plug or power cord in water.

- Disconnect the power supply before performing any maintenance or cleaning.

2.3 Water Handling Safety

- Do not pump flammable or explosive liquids.
- Avoid pumping corrosive chemicals or substances that could damage the pump materials.
- Ensure the discharge hose is properly secured to prevent uncontrolled water flow.

3. Product Overview

Familiarize yourself with the components of your Kärcher SP 9.500 pump.



Figure 3.1: Kärcher SP 9.500 Submersible Dirty Water Pump. This image shows the main unit of the pump, highlighting its yellow and black casing, integrated handle, power cable, and float switch.



Figure 3.2: Man operating the Kärcher SP 9.500 pump in a garden pond. This image illustrates the pump in a real-world application, showing a user lowering the pump into a pond, demonstrating its submersible nature and ease of deployment for water removal.

Key Components:

- **Pump Body:** The main housing containing the motor and impeller.
- **Float Switch:** Automatically turns the pump on/off based on water level.
- **Quick Connect Hose Connector:** For easy attachment of various hose sizes (1", 1 1/4", 1 1/2").
- **Power Cable:** For electrical connection.
- **Integrated Handle:** For easy transport and lowering/raising the pump.

4. Setup

Proper setup ensures optimal performance and safety of your pump.

1. **Unpacking:** Carefully remove the pump and all accessories from the packaging. Inspect for any damage.
2. **Hose Connection:**
    - Attach the desired hose (1", 1 1/4", or 1 1/2") to the Quick Connect hose connector.
    - Ensure the connection is secure to prevent leaks.
    - Route the discharge hose to the desired drainage area, ensuring it is free of kinks and obstructions.
3. **Positioning the Pump:**
    - Place the pump on a stable, flat surface in the water to be drained.

- Ensure the intake openings are not blocked by debris.
- For dirty water applications, ensure the pump is positioned to allow maximum particle intake without clogging.

4. **Float Switch Adjustment:**
   - The float switch determines the automatic on/off levels. Adjust the cable length of the float switch to set the desired switching height.
   - Ensure the float switch can move freely and is not obstructed by walls or debris.
5. **Power Connection:** Connect the power cable to a suitable, grounded electrical outlet.

5. Operating

Operating your Kärcher SP 9.500 pump is straightforward once properly set up.

5.1 Automatic Operation (with Float Switch)

In automatic mode, the pump will turn on and off based on the water level, as determined by the float switch position.

1. Ensure the float switch is free to move.
2. Plug in the pump. The pump will activate when the water level rises and lifts the float switch to its 'on' position.
3. The pump will deactivate when the water level drops and the float switch falls to its 'off' position.

5.2 Continuous Operation (Fixed Float Switch)

For continuous pumping down to a residual water level of 25 mm, the float switch can be fixed to the pump body.

1. Locate the fixing point for the float switch on the pump body (refer to product diagram if available).
2. Securely attach the float switch in the 'on' position.
3. Plug in the pump. The pump will run continuously until unplugged or the water level drops below the minimum intake level (25 mm residual water).
4. *Caution:* Do not allow the pump to run dry for extended periods, as this can cause damage.

6. Maintenance

Regular maintenance ensures the longevity and efficient operation of your Kärcher SP 9.500 pump.

6.1 Cleaning the Pump

1. **Disconnect Power:** Always unplug the pump from the power outlet before cleaning.
2. **Rinse Thoroughly:** After each use, especially when pumping dirty water, rinse the pump thoroughly with clean water to remove any remaining debris.
3. **Check Intake Area:** Inspect the intake screen for blockages. Remove any leaves, mud, or other particles that may have accumulated.
4. **Clean Float Switch:** Ensure the float switch is clean and moves freely.

6.2 Storage

- Before storing, ensure the pump is completely drained of water and clean.
- Store the pump in a dry, frost-free location.
- Protect the power cable from damage during storage.

7. Troubleshooting

This section provides solutions to common issues you might encounter with your Kärcher SP 9.500 pump.

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 sufficient to lift float switch, or fix it for continuous operation. Disconnect power, then check and clear any blockages in the impeller area.
Low pumping capacity.	Hose kinked or blocked. Intake screen clogged. Air in the pump.	Check and straighten hose; clear any obstructions. Clean the intake screen. Briefly lift and lower the pump to release trapped air.
Pump runs but no water is discharged.	Pump not fully submerged. Air lock. Discharge hose completely blocked.	Ensure pump is fully immersed in water. Tilt the pump slightly to release air. Check and clear the discharge hose.
Pump stops unexpectedly.	Overheating protection activated. Water level too low (in auto mode).	Allow pump to cool down. Check for blockages or dry running. Ensure float switch is set correctly or switch to continuous mode if needed.

8. Specifications

Detailed technical specifications for the Kärcher SP 9.500 Submersible Dirty Water Pump.

Feature	Value
Manufacturer	Kärcher
Part Number / Model Number	1.645-800.0
Size	9.500 l/h (new model)
Color	Yellow

Feature	Value
Material	Ceramic
Power Source	Corded Electric
Voltage	240 Volts
Wattage	280 watts
Flow Rate	9,500 Liters per hour
Max. Immersion Depth	7 m
Max. Particle Size	20 mm
Residual Water Height	25 mm
Pressure	0.6 bar
Certification	GS
Item Package Quantity	1
Batteries Required?	No
Weight	4.17 Kilograms
Product Dimensions (L x W x H)	22.9 x 23.8 x 30.3 cm

9. Warranty and Support

Kärcher provides reliable products and customer support.

9.1 Warranty Information

For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official Kärcher website. Protection plans are also available for extended coverage.

- Assurant - 2 Years Electrical Tools - Accidental Damage Insurance ($2000 - $2499.99)
- Assurant - 3 Years Electrical Tools - Accidental Damage Insurance ($2000 - $2499.99)
- Assurant - 4 Years Electrical Tools - Accidental Damage Insurance ($2000 - $2499.99)

9.2 Customer Support

For technical assistance, spare parts, or service inquiries, please contact Kärcher customer support. You can also visit the official Kärcher brand store for more information and products:
Visit the Kärcher Store on Amazon

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