

## Kärcher BP 4.900 Home (Model 1.645-760.0)

# Kärcher BP 4.900 Home Water System Instruction Manual

Model: BP 4.900 Home (1.645-760.0)

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Kärcher BP 4.900 Home Water System. This system is designed to utilize alternative water sources, such as wells or reservoirs, for various household applications including toilet flushing and washing machines. Please read these instructions carefully before installation, operation, or maintenance to ensure proper function and safety.

## 2. SAFETY INSTRUCTIONS

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

- Ensure the power supply matches the specifications on the product label.
- Do not operate the pump with damaged cables or plugs.
- Protect the appliance from frost.
- Never run the pump dry. The thermal fuse protects against overheating, but dry running can cause damage.
- Keep children and unauthorized persons away from the operating appliance.
- Disconnect from the power supply before any cleaning, maintenance, or when not in use.
- Ensure all connections are watertight to prevent leaks and electrical hazards.

## 3. PRODUCT OVERVIEW

The Kärcher BP 4.900 Home Water System is equipped with features designed for reliability and ease of use:

- **Automatic Start/Stop Function:** The system activates automatically when water is needed and switches off when demand ceases.
- **24-Liter Pressure Compensation Tank:** Ensures consistent water pressure and reduces pump

cycling.

- **Integrated Pressure Indicator:** Allows for easy monitoring of system pressure.
- **Check Valve:** Prevents backflow of water.
- **Thermal Fuse:** Protects the motor from overheating.
- **Durable Construction:** Flange and shaft made of stainless steel for longevity.



Figure 3.1: Front-right view of the Kärcher BP 4.900 Home Water System, showing the pump unit, pressure tank, and pressure gauge.



Figure 3.2: Side view of the Kärcher BP 4.900 Home Water System, highlighting the motor and electrical connections.



Figure 3.3: Rear view of the Kärcher BP 4.900 Home Water System, showing the inlet and outlet ports.

## 4. SETUP

1. **Positioning:** Place the water system on a stable, level surface. For enhanced stability, the pump feet can be secured to the floor using screws. Ensure adequate ventilation around the unit.
2. **Water Source Connection:** Connect the suction hose from your alternative water source (well, reservoir) to the pump's inlet. Ensure this connection is airtight to prevent air intake, which can affect pump performance.
3. **Household System Connection:** Connect the discharge hose to your household water system. The

set includes 2 connection adapters for G1 pumps, one with a check valve. Ensure all connections are securely tightened and leak-free.

4. **Priming the Pump:** Before initial operation, fill the pump housing with water through the separate filling opening until it overflows. This is crucial for the pump to create suction.
5. **Electrical Connection:** Plug the power cord into a suitable electrical outlet. Ensure the outlet is properly grounded and protected by a residual current device (RCD).



Figure 4.1: Example installation of the Kärcher BP 4.900 Home Water System in a utility area, connected to a washing machine.

## 5. OPERATING INSTRUCTIONS

1. **Power On:** Switch the appliance on using the easily accessible, splashproof on/off switch.
2. **Automatic Operation:** The BP 4.900 Home will automatically start pumping water when there is a demand (e.g., when a tap is opened, a toilet is flushed, or a washing machine starts). It will automatically switch off once the demand ceases and the desired pressure is reached in the tank.
3. **Monitoring Pressure:** The integrated pressure indicator allows you to monitor the system's pressure. The air valve can be opened to test the pressure in the compensation tank.
4. **Shutting Down:** To turn off the system, simply switch the on/off switch to the 'off' position. For extended periods of non-use, disconnect the power plug.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your water system:

- **Regular Inspection:** Periodically check all hoses and connections for leaks or damage. Tighten any loose connections.
- **Cleanliness:** Keep the pump and surrounding area clean and free from debris.
- **Pressure Tank Check:** Regularly check the pressure in the compensation tank using the integrated indicator. Adjust if necessary according to manufacturer guidelines (refer to the air valve for testing).
- **Winterization:** In areas subject to freezing temperatures, drain the pump and hoses completely to prevent damage from ice expansion. Store the pump in a frost-free environment.
- **Thermal Fuse:** The thermal fuse protects the motor from overheating. If the pump stops unexpectedly, check for blockages or dry running conditions before restarting. Allow the motor to cool down if it has overheated.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump does not start	No power supply; On/off switch off; Thermal fuse tripped; Motor fault.	Check power connection; Turn on switch; Allow motor to cool and check for dry running; Contact service.
No water delivery / Low pressure	Pump not primed; Air in suction line; Suction line blocked; Water source empty; Leaks in suction line.	Prime the pump; Check suction line for leaks and blockages; Ensure water source is adequate; Tighten all connections.
Pump runs continuously	Leak in household system; Pressure tank pressure too low; Check valve faulty.	Check household system for leaks; Adjust pressure tank air pressure; Inspect or replace check valve.

If you encounter problems not listed here or if solutions do not resolve the issue, please contact Kärcher customer service.

## 8. SPECIFICATIONS

Specification	Value
Brand	Kärcher
Model Number	1.645-760.0
Power Source	Corded Electric
Motor Power (Wattage)	1150 Watts
Voltage	230 Volts
Maximum Flow Rate	4900 Liters Per Hour
Maximum Head Height	50 Meters
Maximum Suction Depth	8 Meters
Maximum Pressure	5 Bar

Specification	Value
Item Weight	14.11 Kilograms (approx. 31 pounds)
Product Dimensions (L x W x H)	19.92 x 10.59 x 21.26 inches
Material	Stainless Steel (flange and shaft)
Included Components	Domestic water pump BP 4.900 Home, 2 connection adapters for G1 pumps (one with check valve)

## 9. WARRANTY AND SUPPORT

Kärcher offers a manufacturer's warranty for this product. Please refer to the warranty card included with your purchase or visit the official Kärcher website for detailed warranty terms and conditions. For technical support, spare parts, or service inquiries, please contact Kärcher customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

You can find more information and contact details on the official Kärcher website [www.karcher.com](http://www.karcher.com)