

KÄRCHER

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BP 3 Home



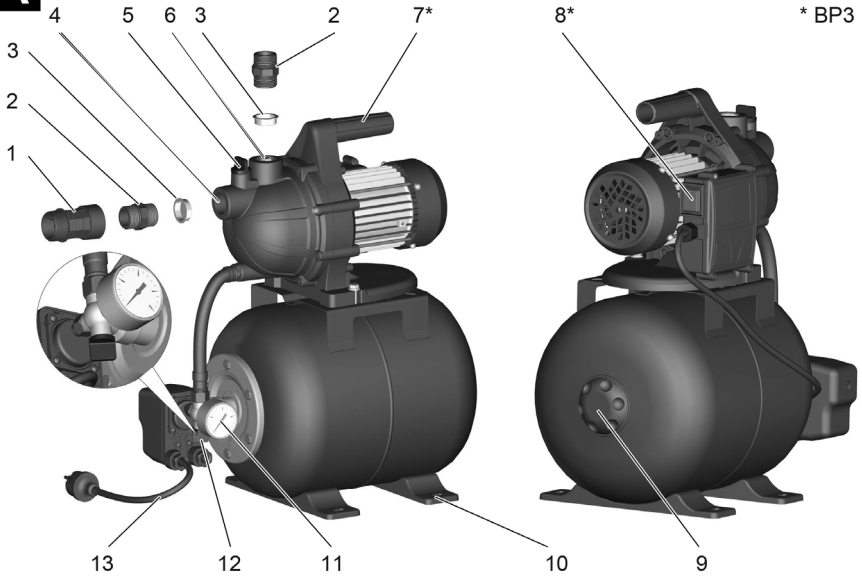
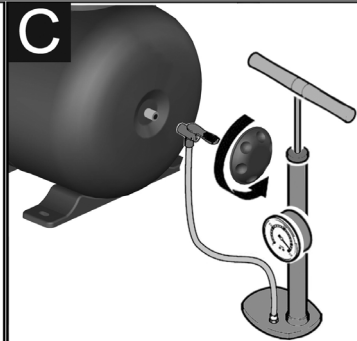
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General information

Dear Customer.



Please read and comply with these original operating instructions and the enclosed safety instructions. Proceed accordingly. Keep both booklets for future reference or subsequent owners.

Proper use

This appliance has been designed for use in private households and is not intended for commercial use. The manufacturer is not responsible for any damages that may occur on account of improper use or wrong operations.

The device is meant for use as house water tank.

This unit is only to be used indoors.

Note

The pump is not suited for increasing the existing line pressure.

Approved fluids

- Used water
- Well water
- Water source
- Rain water
- Water from swimming pool (provided the dosing of additives is proper)

Environmental protection



The packaging material can be recycled. Please do not place the packaging into the ordinary refuse for disposal, but arrange for the proper recycling.



Old appliances contain valuable materials that can be recycled. Please arrange for the proper recycling of old appliances. Please dispose your old appliances using appropriate collection systems.

Notes about the ingredients (REACH)

You will find current information about the ingredients at:

www.kaercher.com/REACH

Warranty

The warranty terms published by the relevant sales company are applicable in each country. We will repair potential failures of your appliance within the warranty period free of charge, provided that such failure is caused by faulty material or defects in manufacturing. In the event of a warranty claim please contact your dealer or the nearest authorized Customer Service centre. Please submit the proof of purchase.

Operation

Description of the Appliance

Illustration **A**

- 1 Backflow valve
- 2 Connection adapter for pumps G1
- 3 Stopper
- 4 Connection G1(33.3mm) Suction pipe
- 5 Filling nozzle
- 6 Connection G1(33.3mm) Pressure pipe
- 7 Carrying handle*
- 8 Power switch*
- 9 Air valve (Schrader valve) with cap
- 10 Base with slotted hole for bolted connection
- 11 Pressure display
- 12 Drain screw
- 13 Power cord with plug

* only for BP 3 Home

Preparing the Appliance

- ➔ Check max. air pressure in the storage tank prior to commissioning. If necessary, refill up to 2.0 bar with a commercially available air pump with the system switched off / zero-pressure state.
- ➔ Secure device against slipping off (fix it with screws, if needed).
- ➔ Remove the plug.
- ➔ Screw the connection adapter in the suction connection of the pump (inlet).
Tighten manually.
- ➔ Screw check valve onto connector adapter at the suction connection.
Tighten manually.
- ➔ Connect the vacuum-proof suction hose with integrated backflow stop on the suction side. (available as optional accessory)
- ➔ Screw the connection adapter in the delivery connection of the pump (outlet).
Tighten manually.
- ➔ Connect delivery line.

Illustration **B**

- ➔ Unscrew the lid of the filling nozzle and fill in water till it overflows.
- ➔ Screw on the lid on the filling nozzle.
- ➔ Open existing shutoff valves in the pressure pipe.

Note

Even the smallest of leakage leads to malfunctioning.

- ➔ In case of leaks, seal all connections with a suitable sealant (e.g. Teflon tape) to prevent malfunction due to leakage or air intake.

Permanent installation

With a permanent installation the pump can be screwed onto a suitable surface.

→ Use suitable screws to screw the bases onto a level surface.

In case of a permanent installation the installation of a flexible component such as a flexible pressure compensating hose (see optional accessories) on the pressure side is recommended. This has the following benefits:

- More flexibility during set-up and installation.
- Noise reduction, since no vibrations are transferred to pipes.
- In case of small leaks, the pump does not switch as often.

Note

To facilitate subsequent emptying and pressure release of the system, we recommend the installation of a stopcock between pump and pressure line.

(not included in delivery)

By closing the shut-off valve when emptying the pump you can prevent water from escaping from the pressure line.

Operation

BP 3 Home:

- Insert the mains plug into the socket.
- Switch the appliance on at the appliance switch.

BP 5 Home:

- Insert the mains plug into the socket.

Note

Pump starts running immediately. Wait till the pump sucks in and pumps uniformly, then shut the gate valve in the pressure pipe. The pressure switch deactivates the motor when the shut-off pressure is reached. The storage boiler is now full; the domestic water supply system is ready for operation.

If there is a lack of supplied water, the switch-off pressure is not reached; the pressure switch cannot shut off the appliance. The water in the pump head will then heat up.

In case of overheating, the power supply is interrupted by a thermal switch, to avoid damage to the pump from overheating.

The supply of power is switched back on after the appliance has cooled off.

Note

The cooling down time until the motor starts up again can be up to 150 min.

We recommend installing a dry run protection unit to regulate the lack of water situation (see special accessories).

CAUTION

System is under pressure!

(For pressure details see chapter on technical specifications)

Finish operation

BP 3 Home:

- Switch the appliance off at the power switch.
- Disconnect the main plug from the socket.

BP 5 Home:

- Disconnect the main plug from the socket.

Maintenance and Care

⚠ DANGER

Turn off the appliance and remove the mains plug prior to any care and maintenance works.

Care

Open the connected shutoff valves to relief pressure and reclose them. The system is free of pressure.

- Rinse the pump after every use if you use to transport water with additives.

Maintenance

- Check the pressure of the air filling in the storage boiler every six months. If necessary, refill up to 2.0 bar in switched off / zero-pressure state (disconnect device, open the water cock).

Illustration

The air valve is located under the cover. Turn in anticlockwise direction to unscrew the cover.

Transport

⚠ CAUTION

In order to prevent accidents or injuries, keep in mind the weight of the appliance during transport (see Specifications).

When transporting in vehicles

- Secure the appliance against shifting and tipping over.

Storage

⚠ CAUTION

In order to prevent accidents or injuries, keep in mind the weight of the appliance when selecting a storage location for it (see Specifications).

Storing the Appliance

- Fully drain the appliance prior to storing it.
- Store the appliance in a frost free area.

Special accessories

The figures of the following special accessories can be found on page 4 of these instructions.

6.997-343.0	Pump pre-filter, small (flow rate up to 4000 l/h)	Pump pre-filter for all common pumps without integrated filters. To protect the pump against coarse dirt particles or sand. The fine filter can be washed. For pumps with G1 (33.3 mm) connection thread.
6.997-344.0	Pump pre-filter, large (flow rate up to 6,000 l/h)	Pump pre-filter for all common pumps without integrated filters. To protect the pump against coarse dirt particles or sand. The fine filter can be washed. For pumps with G1 (33.3 mm) connection thread.
6.997-350.0	Suction assembly 3.5 m, 3/4"	Completely ready for connection, vacuum-proof spiral hose with suction filter and backflow stop. Can also be used as an extension for the suction hose. For pumps with G1 (33.3 mm) connection thread.
6.997-349.0	Suction assembly 7.0 m, 3/4"	
6.997-348.0	Suction hose 3.5 m, 3/4"	Completely ready for connection, vacuum-proof spiral hose for direct connection to the pump. To extend the suction assembly or for use with suction filters. For pumps with G1 (33.3 mm) connection thread.
6.997-359.0	Pump connection G1 (33.3 mm) incl. Check valve	Vacuum-resistant connection of the hoses to the pump. For pumps with G1 (33.3 mm) connection thread and 3/4" as well as 1" hoses, including union nut, hose clamp, flat packing and check valve. ATTENTION → Do not install the check valve included in the set!
6.997-347.0	Vacuum-proof spiral hose, yard goods, 25 m, 3/4"	Vacuum-proof spiral hose. Yard goods for cutting hoses to individual lengths. When combined with the Kärcher connection pieces and the Kärcher suction filters, it can be used as an individual suction assembly.
6.997-346.0	Vacuum-proof spiral hose, yard goods, 25 m, 1"	
6.997-345.0	Suction filter Basic 3/4"(19 mm)	To be connected to the suction hose yard goods. The backflow stop prevents the return flow of the delivered water and thus reduces the time required for suction to start again. Including hose clamp.
6.997-342.0	Suction filter with backflow stop, basic, 1"	
6.997-341.0	Suction filter with backflow stop, premium	To be connected to the suction hose meter length. The backflow stop prevents the return flow of the transported water and thus shortens the re-suction time. Durable metal/plastic construction. Suitable for 3/4" (19 mm) and 1" (25.4 mm) hoses. Including hose clamp.
6.997-360.0	Suction hose for pipes 0.5 m, 3/4"	Vacuum-tight hose to reduce noise with fixed installations. 1"(25.4 mm) hose with threaded connection G1(33.3 mm) on both ends. Caution: The suction hose may not be used as a pressure hose.
6.997-340.0	Connection kit Premium	For the connection of 3/4" (19 mm) water hoses to pumps with G1 (33.3 mm) connection threads. For increased water flow.
6.997-417.0	Pressure compensating hose 3/4" (19mm), 1m	Connecting hose for the pressure compensation in the domestic water supply system. To connect the pump to rigid pipe line systems. Furthermore, the internal storage volume in the hose prevents frequent switching on and off of the pump. G1 (33.3 mm) connection thread.
6.997-355.0	Dry run fuse	If no more water flows through the pump, the dry run fuse will protect the pump from damage and automatically turn it off. With G1" (33.3 mm) threaded connection.
6.997-546.0	Dry run fuse Type E (CEE7/5) Country version BE, CZ, ES, FR, PL SK	

Troubleshooting

⚠ DANGER

To avoid risks, all repairs and replacement of spare parts may only be carried out by authorized customer service personnel.

First pull out the plug from the mains before carrying out any tasks on the machine.

Fault	Cause	Remedy
Pump runs but does not transport	Air in the pump	see chapter "Preparing the Appliance"
	Air does not come out on the pressure side	Open tap on pressure side
	No water available.	Check the water reservoir.
Pump does not run or suddenly comes to a standstill during operations	Power supply interrupted	Check fuses and electrical connections
	Thermal protection switch in the motor has switched off the pump as it was overheated.	Pull out the mains plug, let the pump cool down, clean the suction area, prevent dry running Note The cooling down time until the motor starts up again can be up to 150 min.
Pump switches itself off and back on	Thermal protection fuse has switched the pump off to protect from overheating or turned it back on after it has cooled off.	In order to prevent a repetition, the system should be checked for leaks and sealed.
Motor starts up immediately after switch off	Pressure is not retained in the system	Check connections including sealings and control the water outlet. The smallest of leakages can affect the operation adversely.
	Air pressure in the storage boiler is too low.	Fill storage boiler with 2.0 bar. See chapter "Maintenance"
	Backflow valve does not close properly	Check backflow valve on suction side.
	Membrane in pressure tank is defective	Replace membrane
Pump transports is reducing or transported quantity is too low	Suction filter or check valve (special accessories) contaminated	Clean suction filter or check valve (special accessories)
	The quantity transported by the pump depends on the transport height and the connected periphery	Keep max. flow height, see technical data. If necessary, select a different hose diameter or hose length.
Vibrating sound while taking out water	Membrane in pressure tank vibrates	Noise caused by operations and the noise can be reduced by reducing the pressure in the air filling of the storage tank.

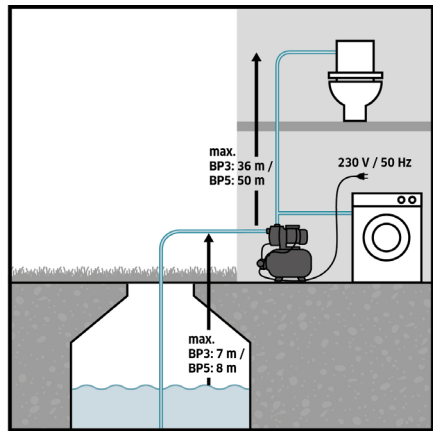
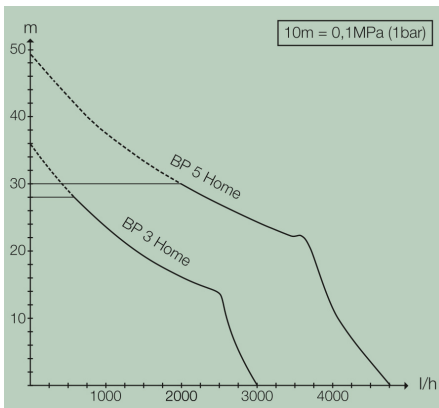
Our Kärcher branch will be pleased to help you further in the case of questions or faults. See address on the reverse.

Technical specifications

		BP 3 Home	BP 5 Home
Voltage	V	230	230
Frequency	Hz	50	50
Output P _{nom}	W	800	1100
Max. flow rate	l/h	3000	4500
Max. Suction height	m	7	8
Max. pump pressure	MPa (bar)	0,36 (3,6)	0,5 (5,0)
Working pressure	MPa (bar)	0,17 - 0,28 (1,7 - 2,8)	0,19 - 0,3 (1,9 - 3,0)
Max. air pressure in the storage tank	MPa (bar)	0,18 - 0,2 (1,8 - 2,0)	0,18 - 0,2 (1,8 - 2,0)
Max. permissible internal pressure in the storage tank	MPa (bar)	0,50 (5,0)	0,50 (5,0)
Weight	kg	11,5	14,7

Subject to technical modifications!

Operating pressure and transported quantity depends on the suction height and the connected periphery!



The possible delivery rate is even larger:

- the lower the suction and flow heights
- the larger the diameter of the hoses used,
- the shorter the hoses used are
- the lower the pressure loss caused by the connected accessories