

BP 3 / 4 / 5 / 7 Home & Garden

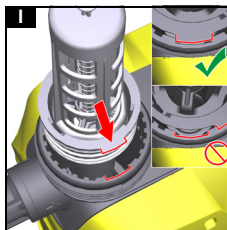
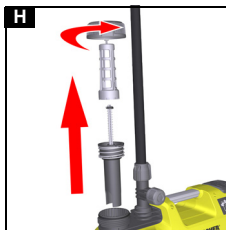
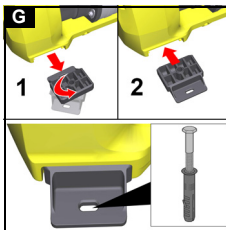
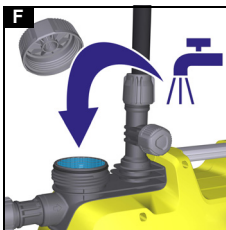
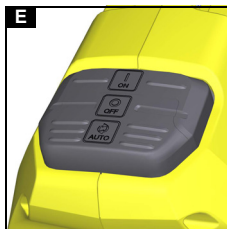
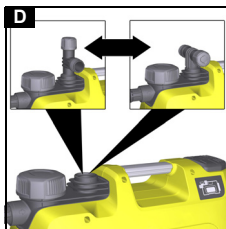
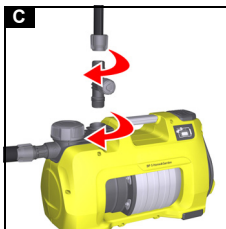
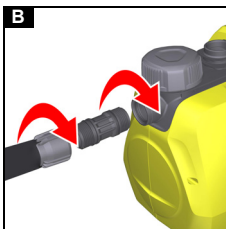
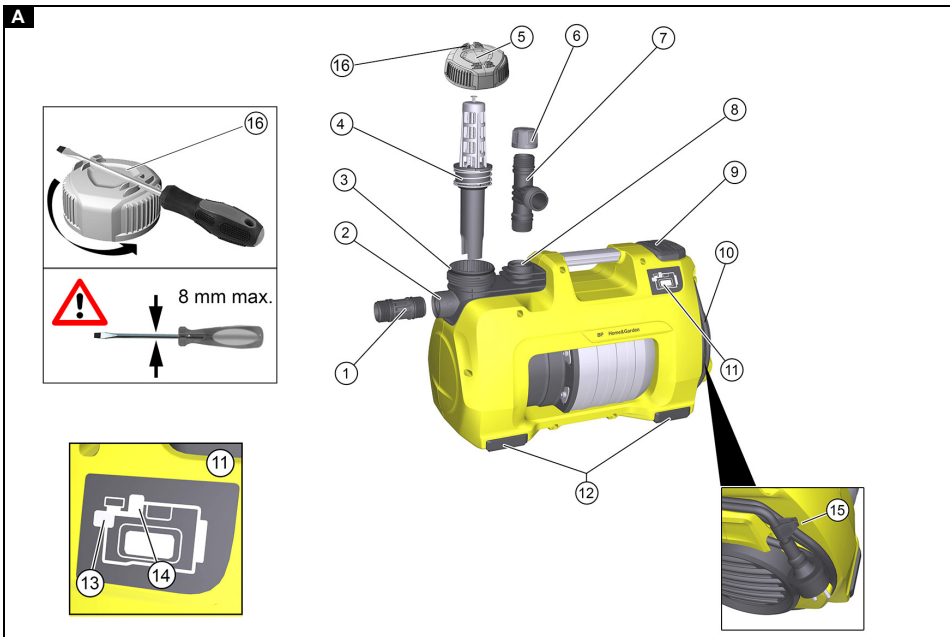
English

3



Register
your product
www.kärcher.com/welcome







Please read these original operating instructions and the enclosed safety instructions prior to the initial use of your device. Proceed accordingly. Keep both booklets for future reference or subsequent owners.

Contents

Contents	EN	3
General information	EN	3
Danger or hazard levels	EN	3
Environmental protection	EN	3
Customer Service	EN	3
Connection to the public drinking water network	EN	4
Safety instructions	EN	4
Operation	EN	4
Maintenance and Care	EN	5
Transport	EN	5
Storage	EN	5
Troubleshooting	EN	6
Notes on the operation	EN	7
Technical specifications	EN	8

General information

Prerequisites for the appliance's stability

⚠ CAUTION

Create stability for the appliance prior to any work on or with the appliance to prevent accidents or damage.

The stability of the appliance is warranted when it is placed onto an even surface.

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.

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 appliance is mainly intended for the use within the house and garden.

The house & garden pumps switch on and off automatically in case of water demand. Thus, they are suitable for both the use in the garden and applications inside the house. They can be perfectly used to supply washing machines or toilet flushing mechanisms inside the house with water, e.g. in combination with a cistern. Moreover, the constant operating pressure of the pumps also ensures reliable garden irrigation.

⚠ CAUTION

Risk of damage! The pump is not suitable for the intensification of the present line pressure.

Approved fluids

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

⚠ CAUTION

- *Water that has been delivered with this appliance is no drinking water!*

⚠ WARNING

Caustic, slightly inflammable and other explosive substances (such as petrol, petroleum, diluted nitrogen), greases, oils, salt water and waste water from toilets as well as sludgy water that has a slower flow capacity than water, must not be transported with this pump.

The device is equipped with a dry run fuse and is not suitable for a continuous operation (e.g. lifting system, fountain pump).

The temperature of the delivered liquid must not exceed 35 °C

Danger or hazard levels

⚠ DANGER

Immediate danger that can cause severe injury or even death.

⚠ WARNING

Possible hazardous situation that could lead to severe injury or even death.

⚠ CAUTION

Pointer to a possibly dangerous situation, which can lead to minor injuries.

ATTENTION

Pointer to a possibly dangerous situation, which can lead to property damage.

Environmental protection

Notes about the ingredients (REACH)

You will find current information about the ingredients at:

www.kaercher.com/REACH



The packaging material can be recycled. Please arrange for the environmentally appropriate disposal of the packaging.



Electrical and electronic devices often contain components which could potentially pose a danger to human health and the environment if handled or disposed of incorrectly. However, these components are necessary for the proper operation of the device. Devices marked with this symbol must not be disposed of with regular household rubbish.

Old appliances contain valuable recyclable materials that should be recycled properly. Batteries and accumulators contain substances that must not enter the environment. Please dispose of old devices and batteries or accumulators in an environmentally friendly way.

Customer Service

Australia

KÄRCHER Pty. Ltd.
40 Koornang Road
Scoresby, VIC 3179
1800 675 714 (Free Call)
www.karcher.com.au

Connection to the public drinking water network

Please observe the requirements of EN 1717 when connecting this product to the drinking water network and contact your sanitation specialists if you have any questions.

Safety instructions

Please follow the safety instructions before starting up the pump!

Operation

Settings

With the ON/OFF switch the following three operating conditions can be switched:



Switch position I/On
Continuous operation



Switch position 0/Off
Off



Switch position Auto
Automatic mode

System operation

In the automatic mode the house & garden pumps automatically maintain the pressure in the system. If the pressure falls below approx. 0.13 MPa (1.3 bar), the pump is started. The pump is running as long as the flow rate

> is approx. 60 l/h. If the withdrawal of water is completed, the pump goes into the stand-by mode after a short stopping time. The system is now under pressure. In case of water withdrawal and the resulting loss of pressure the pump starts again.

Description of the Appliance

- 1 Connection adapter for pumps G1
 - 2 Connection G1 (33.3 mm) suction pipe (inlet)
 - 3 Filling nozzle
 - 4 Pre-filter and integrated check valve
 - 5 Cover
 - 6 2-way connection adapter for pumps G1
 - 7 Connection G1 (33.3 mm) delivery line (output)
 - 8 ON/OFF switch
 - 9 Cable storage and mains cable with plug
 - 10 Cable clip
 - 11 Error display
- A Error on suction side
B Error on delivery side

Preparing the Appliance

Illustration **A**

- ➔ Screw the connection adapter in the suction connection of the pump (inlet).
Tighten manually.
- ➔ Connect the vacuum-proof suction hose.

Note

In order to reduce the time required for suction to start again, use a suction hose that is equipped with a backflow stop. This prevents the emptying of the suction hose after use (see accessories).

Do not install the backflow stop directly on the pump (suction or delivery side).

If sandy water is to be delivered, we strongly recommend the use of an additional pre-filter (see optional accessories). Please install this filter on the suction side of the pump, between the suction hose and the pump.

Please use original Kärcher suction pipes, filter components and hose connections. When using components of other manufacturers, malfunctions during drawing in the delivery fluid may arise, especially when using bayonet connection systems.

Do not use quick couplings, but screwed connections with domestic or permanent installations.

Illustration **B**

- ➔ Screw the connection adapter in the delivery connection of the pump (outlet).

Tighten manually.

- ➔ Connect delivery line.

Illustration **C**

The 2-way adapter allows the simultaneous operation of two appliances (e.g. washing machine or sprinkler). It can be mounted in a way that either both outlets are used at the side or one outlet at the side and one outlet at the top. If only one outlet is used, the outlet that is not required can be closed by means of the accompanying closing cap.

Illustration **D**

- ➔ Unscrew the lid of the filler neck and fill in water up to the brim.

- ➔ Manually screw the lid all the way to the stop on the filler neck.

- ➔ Open existing shutoff valves in the pressure pipe.

Note

Even the smallest of leakage leads to malfunctioning.

Permanent installation

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

Illustration **E**

- ➔ Pull out and turn the rubber feet on both sides of the casing.

- ➔ Reinsert the rubber feed into the casing.

- ➔ Use suitable screws to screw it 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, as no vibrations are transferred to pipes in the domestic water system.
- 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.

If there are increased drops in pressure due to leaks in the house system (pump regularly switches on without dispensing water), install a pressure equalization container.

Operation

- Insert the mains plug into the socket.
- Switch on the appliance using the ON/OFF switch.
- Optimum convenience with operation in the automatic mode.

Illustration 

- In order to reduce the suction time, lift the delivery hose approx. 1m.
- Wait till the pump sucks in and transports water uniformly

Note

The ON/OFF switch can also be conveniently operated with your foot.

Note

In the automatic mode the pump switches off at a flow rate of < 60 l/h.

⚠ Caution

Lacking water supply is recognised by the appliance. If no water is drawn and delivered within 4 minutes during start-up in the manual mode or within 3 minute in the automatic mode, the pump shuts off. The LED "Error on the suction side" is illuminated on the display.

Finish operation

- Switch off the appliance using the On/Off switch.
- 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.

Check pre-filter regularly for dirt. If it is visibly dirty, proceed as follows:

Illustration 

- Unscrew the lid of the filling nozzle.
- Remove the entire prefilter.
- Separate the check valve from the prefilter.
- Carefully clean the prefilter and the check valve under flowing water.
- If necessary, rinse the residual dirt from the pump.
- Check the check valve for ease of movement.
- If sluggish, lightly grease the check valve seals using grease (6.288-143.0) available from Kärcher Service.
Do not use mineral lubricants or oils.
- Connect the prefilter and check filter to each other again.

Illustration 

- When inserting the pre-filter (with check valve) in the filler neck, mind the **correct installation position** (notch). It must be possible to insert the pre-filter easily and without exertion of force.

⚠ Caution

Only use grease that is free from mineral oil for seals.

Maintenance

The appliance is maintenance free.

Transport

⚠ CAUTION

In order to prevent accidents or injuries, mind the weight of the appliance during transport (see technical data).

When transporting by hand

- Lift appliance by the carrying handle and carry it.

⚠ CAUTION

Tripping hazard due to loose cables!

- Coil cable onto the cable holder and secure it by means of a cable clip.

When transporting in vehicles


- Secure the appliance against shifting and tipping over.

Storage

⚠ CAUTION

In order to prevent accidents or injuries, mind the weight of the appliance when choosing the storage location (see technical data).

Storing the Appliance

- Depressurise the appliance by opening the water outlet connected on the delivery side (e.g. opening the tap).
 - Drain hoses.
 - Remove suction pipe and delivery line.
- Illustration 
- Unscrew the lid of the filling nozzle.
 - Remove the pre-filter and the built in backflow valve and clean them under flowing water.
 - Empty the pump over the filler neck by turning it around.
 - Store the appliance in a frost free area.

Troubleshooting

⚠ Caution

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

Prior to all work on the appliance, switch off the appliance and pull the power plug.

Fault	Cause	Remedy
Pump runs but does not transport	Air in the pump	see Chapter "Preparation" Fig. A to D and Chapter "Operation"
	Suction pipe blocked	Switch off the pump, pull the mains plug and clean the intake area.
	Pre-filter is dirty	Switch off the pump, pull the mains plug, allow the pump to cool down, clean intake area, prevent dry running. Remove the pre-filter and the check valve and clean it under running water, flush dirt residues from the bottom of the filler neck through the filler hole if necessary. Restart by switching the pump back on.
	Suction hose or connection adapter not screwed in correctly or completely.	Check whether all seals have been installed and are seated correctly prior to assembly. Manually tighten the suction hose and the connection adapter.
Pump does not run or suddenly comes to a standstill during operations	Power supply interrupted	Check fuses and electrical connections
	Pre-filter is dirty	Remove the pre-filter and the check valve and clean it under running water, flush dirt residues from the bottom of the filler neck through the filler hole if necessary.
	The appliance is in the automatic mode. Pressure in the system > 1.3 bar.	The pump automatically switches back on as soon as the pressure in the system falls below 1.3 bar. In automatic mode the device does not start up even after switching it off and back on if there is an internal pressure of more than 1.3 bar, thus, when a water column of more than 13 metres affects the pump.
Pump stops, LED "Error on suction side" is illuminated.	Failure on the suction side, pressure cannot build up	Switch off the pump and pull the power plug. Remove the pre-filter and the check valve and clean it under running water, flush dirt residues from the bottom of the filler neck through the filler hole if necessary. Restart by switching the pump back on.
		Check connections on the suction side for leakage. Restart by switching the pump back on.
		Check if there is sufficient water in the suction container (e.g. cistern).
	Flow rate very low -> the dry run protection has switched off the pump.	Check if there is sufficient water in the suction container (e.g. cistern). The flow is insufficient. Open tap more.
Fault delivery side (leakage or closed tap) during suction. Pump does not end the suction mode.	Open tap. Check system for leakage. If the leakage cannot be eliminated, install pressure equalization container.	

Fault	Cause	Remedy
Automatic mode: Pump stops, LED "Error on delivery side" is illuminated.	Failure in the pressure line, the pump frequently switches on and off as a result of leakage.	Check and correct the pressure line for leakages (dripping water tap). Restart by switching the pump back on. Check system for leakage. If the leakage cannot be eliminated, install pressure equalization container.
	Error on delivery side. The pressure is too low after shutdown of the pump, the appliance starts again immediately and thus switches on and off frequently.	There is no sufficient elastic volume available on the delivery side. Use a garden hose with a minimum length of 5 m at a diameter of 3/4" or 15 m at a diameter of 1/2" for garden applications. With permanent installations, install a pressure equalization hose or pressure equalization container on the delivery side between the pump and the piping. Restart by switching the pump back on.
Continuous operation: Pump stops, LED "Error on delivery side" is illuminated.	The appliance works for at least four minutes, although the outlet on the delivery side (e.g. tap) is closed. Overheating protection switches off the appliance.	Pull out the mains plug. Depressurise the appliance by opening the water outlet connected on the delivery side. Restart by switching the pump back on.
Pump transports is reducing or transported quantity is too low	Suction pipe blocked	Switch off the pump, pull the mains plug and clean the intake area.
	Pre-filter is dirty	Remove the pre-filter and the check valve and clean it under running water, flush dirt residues from the bottom of the filler neck through the filler hole if necessary.
	Suction side is leaky	Check the entire suction side for leaks
	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.
	Cross section on the delivery side constricted, e.g. due to valve/ball valve that is not completely opened.	Completely open the valve/ball valve.
	Hose on the delivery side is kinked.	Remove kinks from the hose.

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

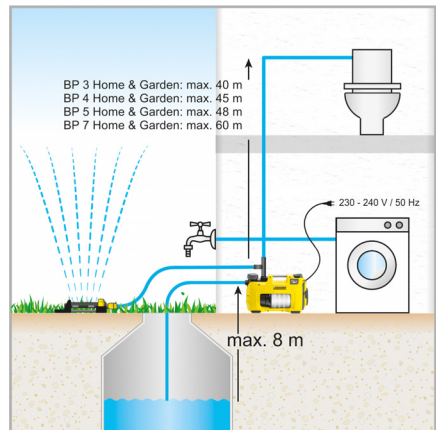
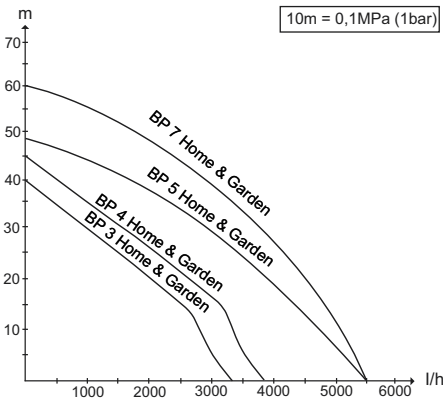
Notes on the operation

	Irrigation	Household water supply	Irrigation & household water supply
BP 3 Home & Garden	500 m ² max.	8 persons max.	300 m ² + 4 persons max.
BP 4 Home & Garden	800 m ² max.	10 persons max.	600 m ² + 4 persons max.
BP 5 Home & Garden	1000 m ² max.	12 persons max.	800 m ² + 4 persons max.
BP 7 Home & Garden	1200 m ² max.	12 persons max.	900 m ² + 4 persons max.

Technical specifications

		BP 3 Home & Garden	BP 4 Home & Garden	BP 5 Home & Garden	BP 7 Home & Garden
Voltage	V	230 - 240	230 - 240	230 - 240	230 - 240
Frequency	Hz	50	50	50	50
Output P _{nom}	W	800	950	1000	1200
Max. flow rate	l/h	3300	3800	6000	6000
Max. Suction height	m	8	8	8	8
Max. pressure	MPa (bar)	0,40 (4,0)	0,45 (4,5)	0,48 (4,8)	0,60 (6,0)
Max. flow height	m	40	45	48	60
Max. switch on pressure in the automatic mode	MPa (bar)	0,13 (1,3)			
Max. grain size of the dirt particles that can be transported	mm	1	1	1	1
Pump type		Jet	Jet	Multi-stage 4-stage	Multi-stage 5-stage
Values determined as per EN ISO 20361					
Sound pressure level L _{pA}	dB(A)	61	63	61	61
Sound power level L _{WA} , guaranteed	dB(A)	76	78	77	76
Weight (without accessories)	kg	10,3	10,6	12,5	13,0
LED class 1 as per EN 60825-1					

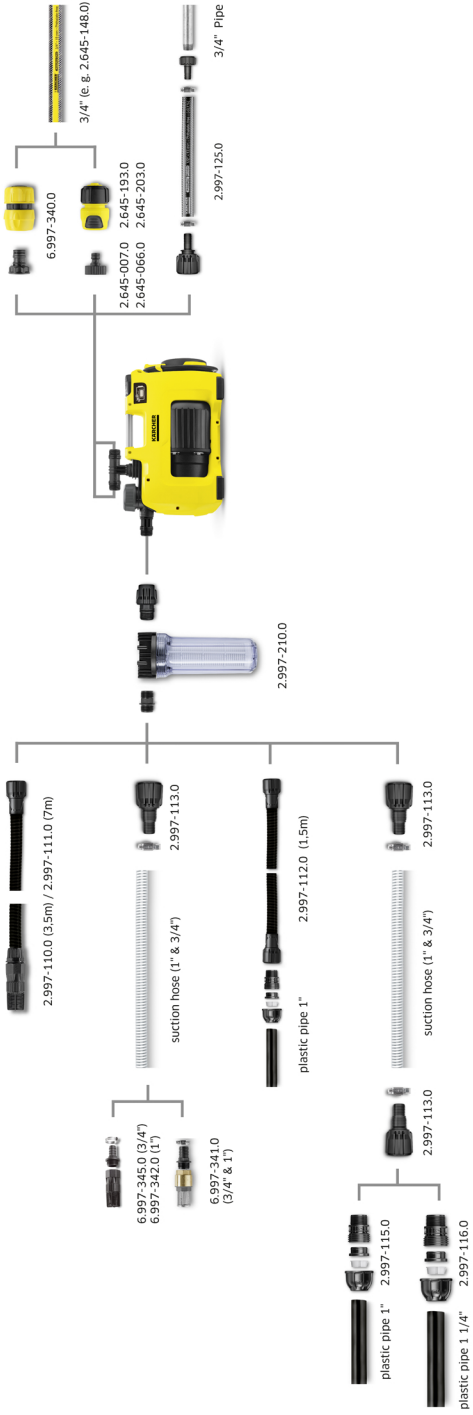
Subject to technical modifications!



* In the automatic mode max. 13 m

The possible delivery rate is even larger:

- the smaller the suction and delivery heights are.
- the larger the diameter of the hoses used are.
- the shorter the hoses used are.
- the less loss of pressure is caused by the connected accessories.





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