

User's Manual

3-in-1 Toilet Waste Water Pump 250 W 63489



Illustration similar, may vary depending on model

Please read and follow the operating instructions and safety information prior to initial operation.

Technical changes reserved!

Illustrations, functional steps, and technical data may deviate insignificantly due to continuous further developments.



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If you have found an error or wish to suggest an improvement, we look forward to hearing from you. Send us an e-mail to:

service@wiltec.info

or use our contact form:

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Our postal address is:

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To return your goods for exchange, repair, or other purposes, please use the following address. Attention! To allow for a trouble-free complaint or return, it is important to contact our customer service team before returning your goods.

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Introduction

Thank you for choosing to purchase this quality product. To minimise the risk of injury, we ask you to always take some basic safety precautions when using this product. Please read this operating manual carefully and make sure that you understand it. Keep these operation instructions in a safe place.

Safety instructions

CAUTION:

The device is not intended for use by persons (including children) with impaired or limited physical, sensory, and mental abilities or lack of experience and/or real knowledge, unless they are supervised by a person responsible for their safety or follow the instructions made by this person on how to correctly use the device. Children should be supervised to ensure that they do not play with the device.

Product description

The toilet waste water pump consists of a housing, a motor, and a pump. The pump is suitable for domestic sewage and sanitary facilities. The system automatically switches the pump on and off depending on the liquid level.

Attention!

- Perform a visual inspection of the device before every use. Do not use the device if the safety appliances are damaged or worn out. Never override safety regulations.
- The pump must be supplied with a nominal fault current of no more than 30 mA via a residual current circuit breaker (FI).
- Only use the device accordingly to the intended purpose stated in this manual. The device is only suitable for private use.
- You are responsible for the safety of the working zone.
- If the cable or the plug is damaged due to external influences, the device must not be used. The cable must be replaced with a new one first. This work may only be carried out by an electrician.
- The voltage of 230 V AC (50 Hz) indicated on the type plate of the device must match the existent mains voltage. The socket used must have a minimum distance of 1000 mm to the shower or bathtub.
- Never lift, carry, or fix the device by using the power cable.
- Make sure that the electrical plug connection is protected from flood and moisture. Always unplug the device before working on it.
- Avoid exposing the device to direct jets of water.
- The user is responsible for complying with local safety and mounting regulations. Ask an electrician, if necessary.
- The user must take appropriate measures (e.g., installation of an alarm system, a reserve pump, etc.) to prevent damage caused by the flooding in case of device malfunctioning.
- In case of device failure, repairs can only be carried out by an electrician. No responsibility is accepted for damage caused by improper maintenance or use.
- The device must never run dry or be operated with its suction line fully closed. The manufacturer's warranty is void for damage to the device caused by dry running.
- Do not use this device to operate swimming pools.
- This device must not be integrated into any kind of domestic water circuit meant for potable water.
- Pumping aggressive liquids and abrasive substances must always be avoided.
- Waste water must be able to run to the device by itself.
- The pump must be protected from frost (e.g., by letting in antifreeze) and running dry by taking appropriate measure and must not be immersed in water. No water must drip in via the entry of the electric cable.

- The device must not be installed in septic tanks or pump shafts.
- Installation should be left to a professional and must be carried out in such a way that the device is always fully accessible for maintenance and possible repairs.

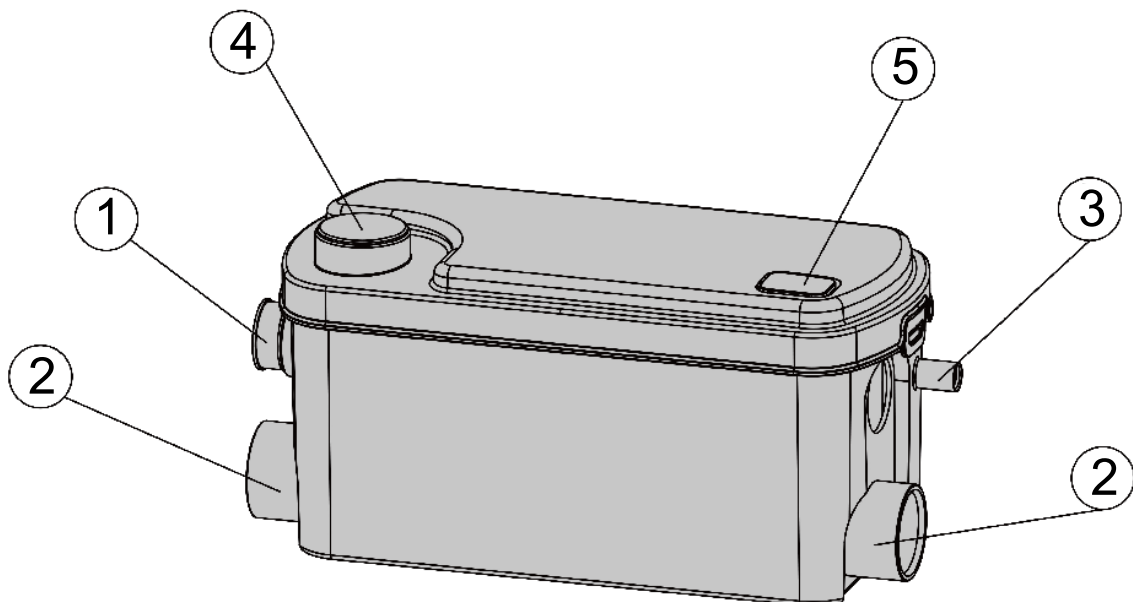
⚠ Warning!

Read all safety precautions and instructions. Failure to obey the safety precautions and instructions might cause an electric shock, a fire, and/or severe injuries. Keep all safety precautions and instructions for future use. — Instructions having the note “Attention!” call your attention to errors that may impair the correct operation of the device.

Technical specifications

Power (W)	250
Voltage (V)	220–240
Frequency (Hz)	50
Max. lifting height (m)	8.5
Max. delivery width (m)	80
Max. water temperature (°C)	80
Max. flow rate (l/min)	100
Heat protection (°C)	100
Noise (dB)	30–40
Protection class	IPX7

Main parts



Nº	Name	Nº	Name
1	Outlet ø 23/28 mm	4	Inlet ø 40 mm (optional)
2	Inlet ø 40 mm	5	Vent (carbon filter)
3	Ventilation connection or emergency outlet		

Figures

Figure 1: Dimensions (in mm)

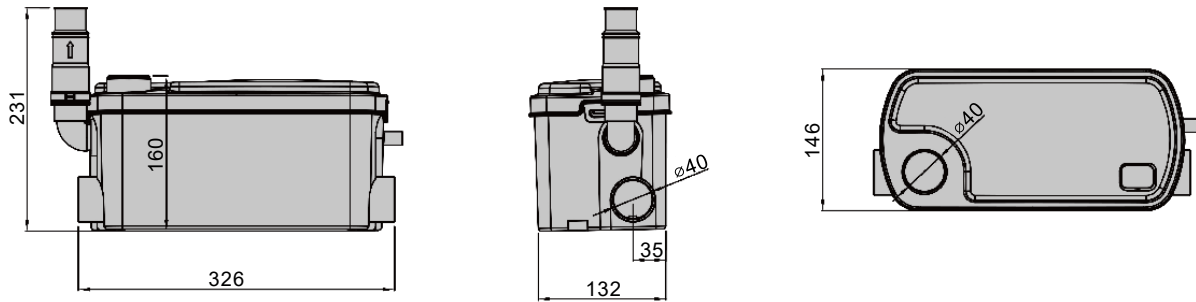


Figure 2: Spare parts

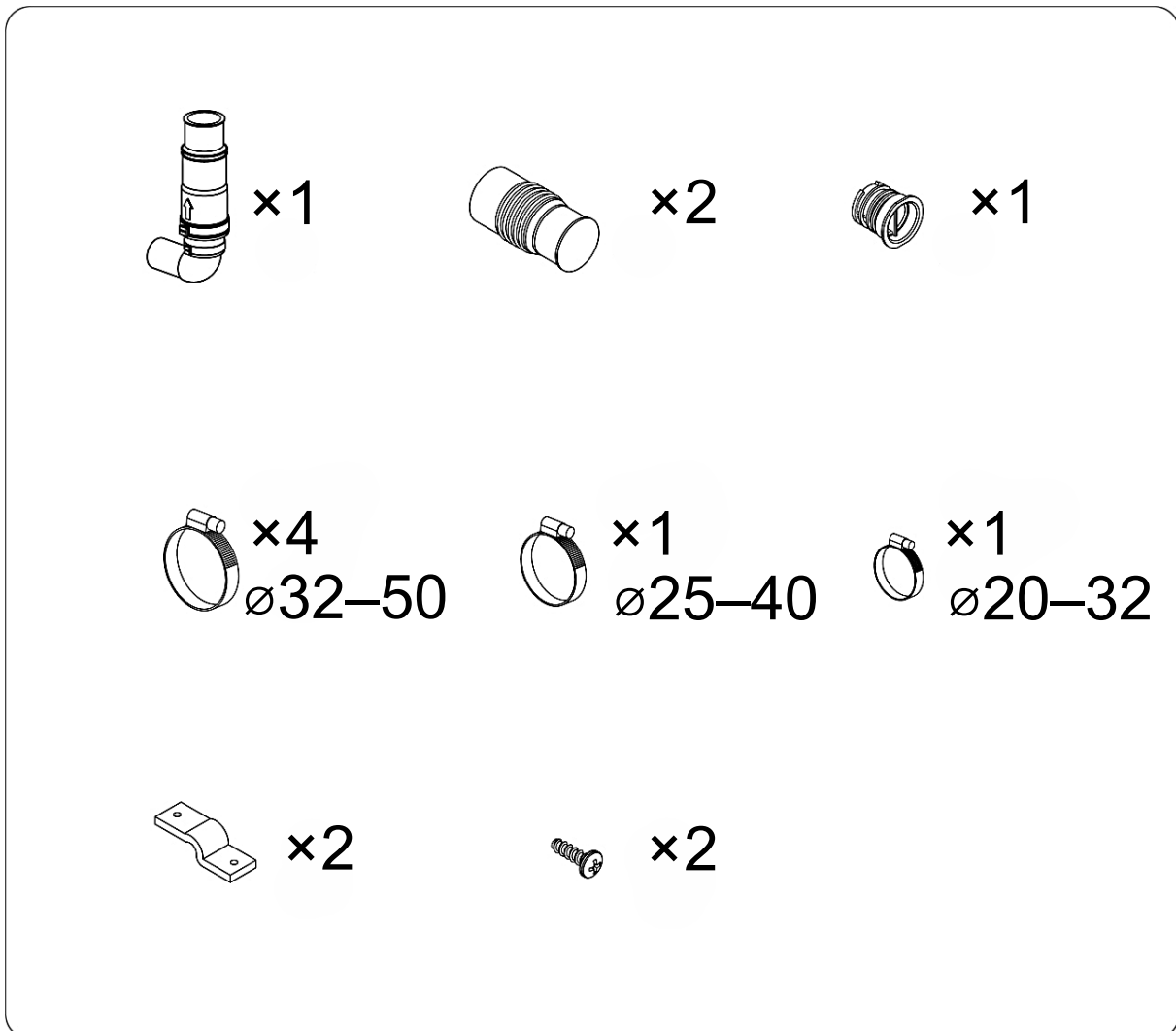
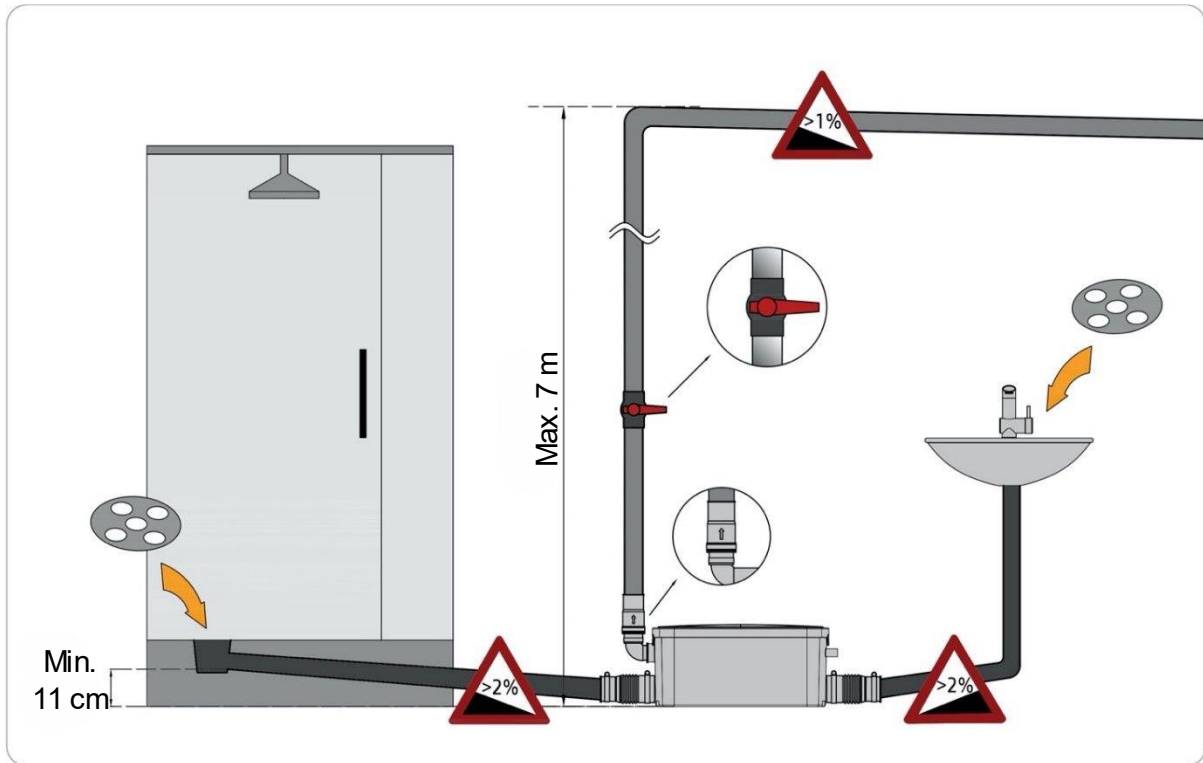


Figure 3: Installation



- An outlet check valve is required.
- Install an additional manual check valve for repair (suggestion).
- The minimum distance between drain and floor must be 11 cm.
- Use a filter in the shower and toilet to prevent hair from getting into the device.

Figure 4: Connections

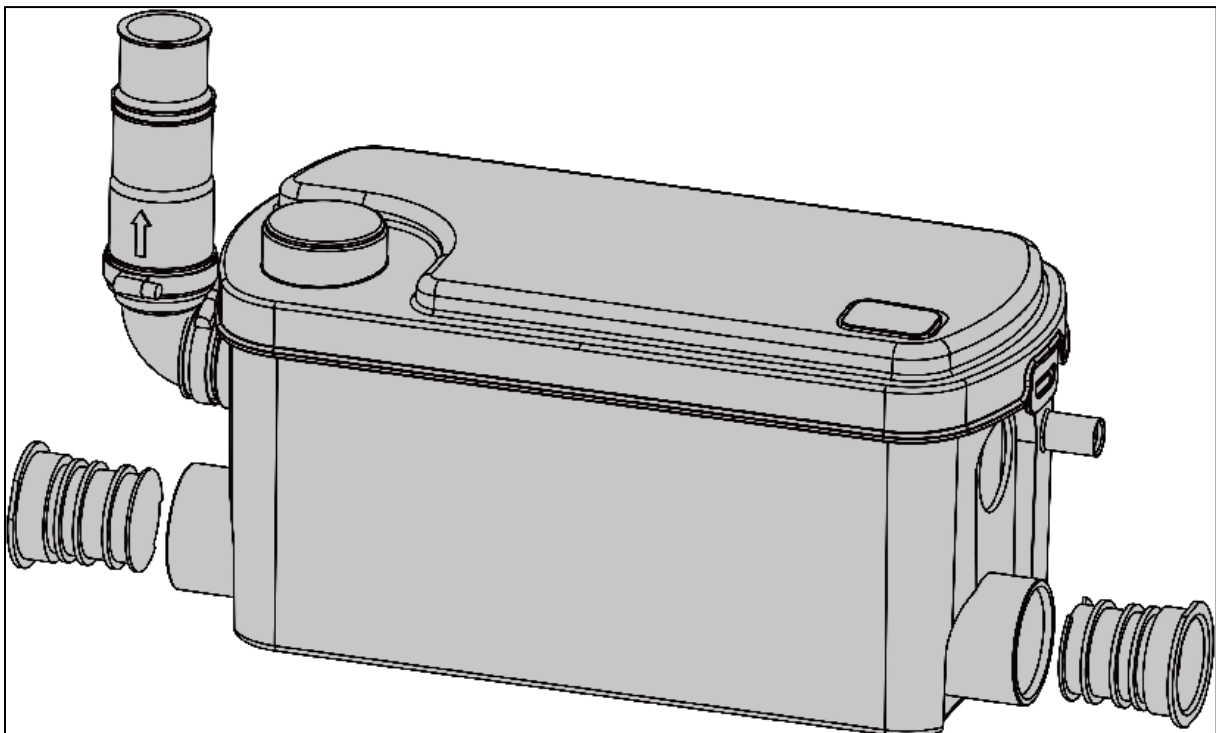


Figure 5: Optional intake for additional equipment

Cover all intakes that are not used.

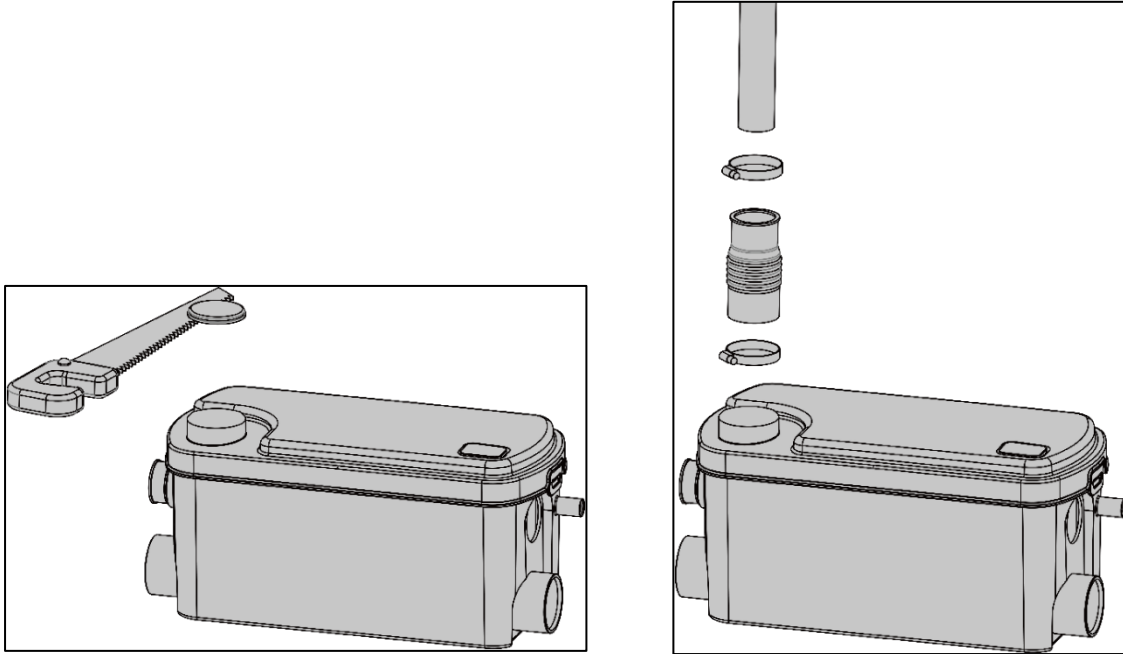


Figure 6: Fixations

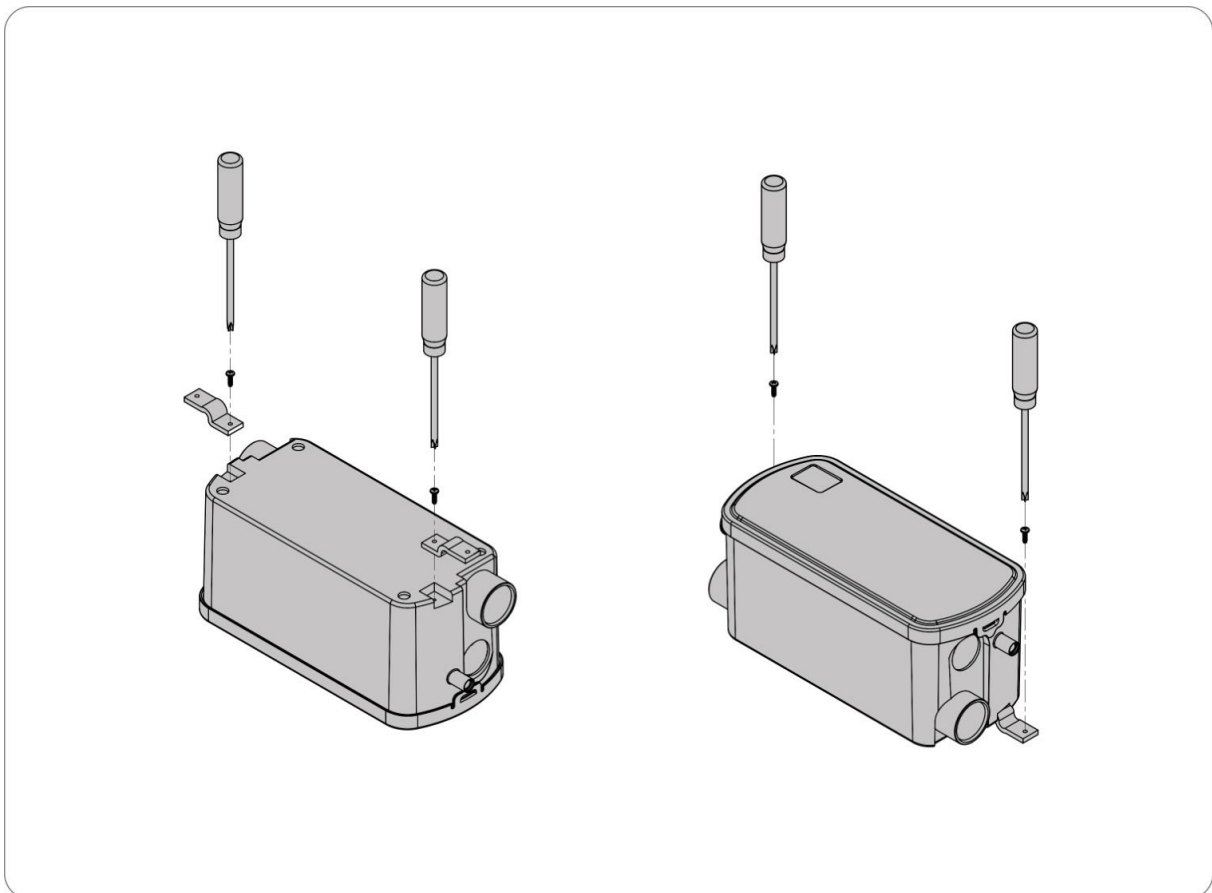


Figure 7: Outlet (23-mm/28-mm non-return valve)

The non-return valve being only 1–2 cm in size, avoid inserting it too far.

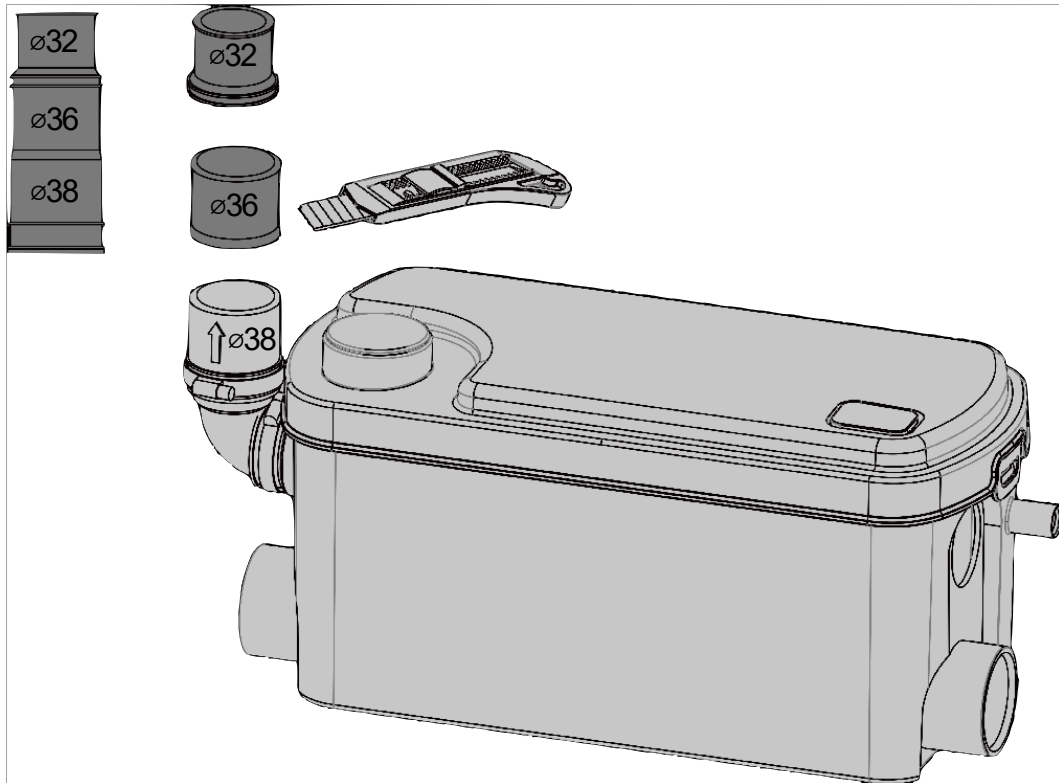


Figure 8: Heads and draws

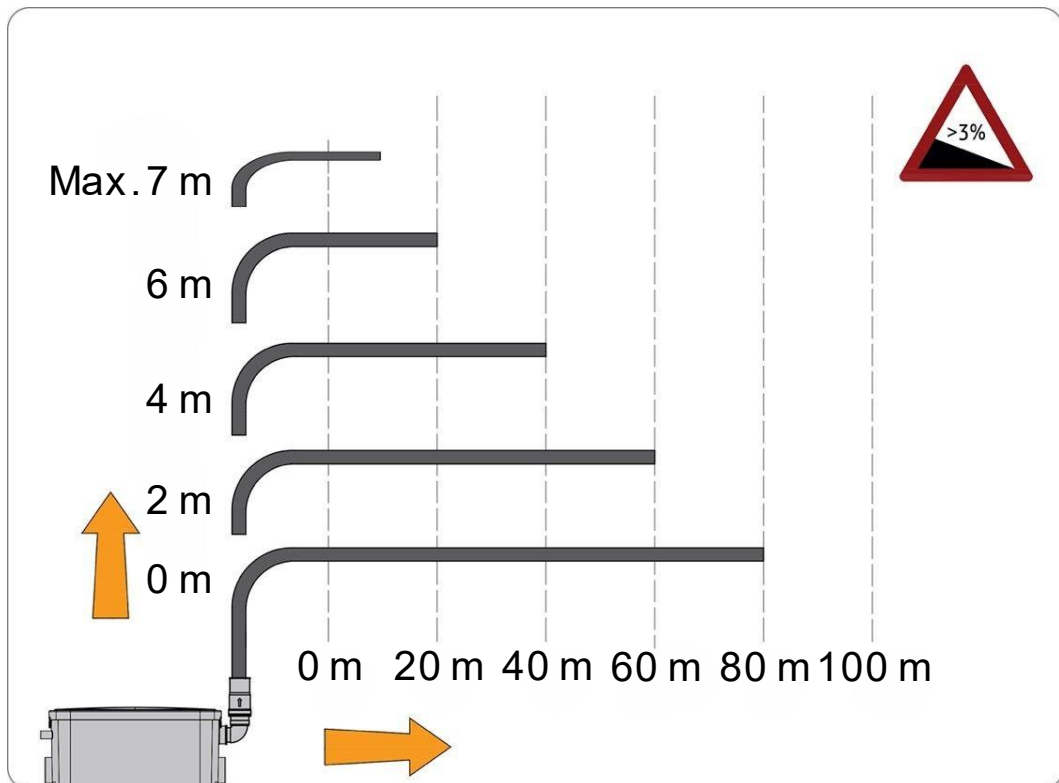




Figure 9: Flow rates

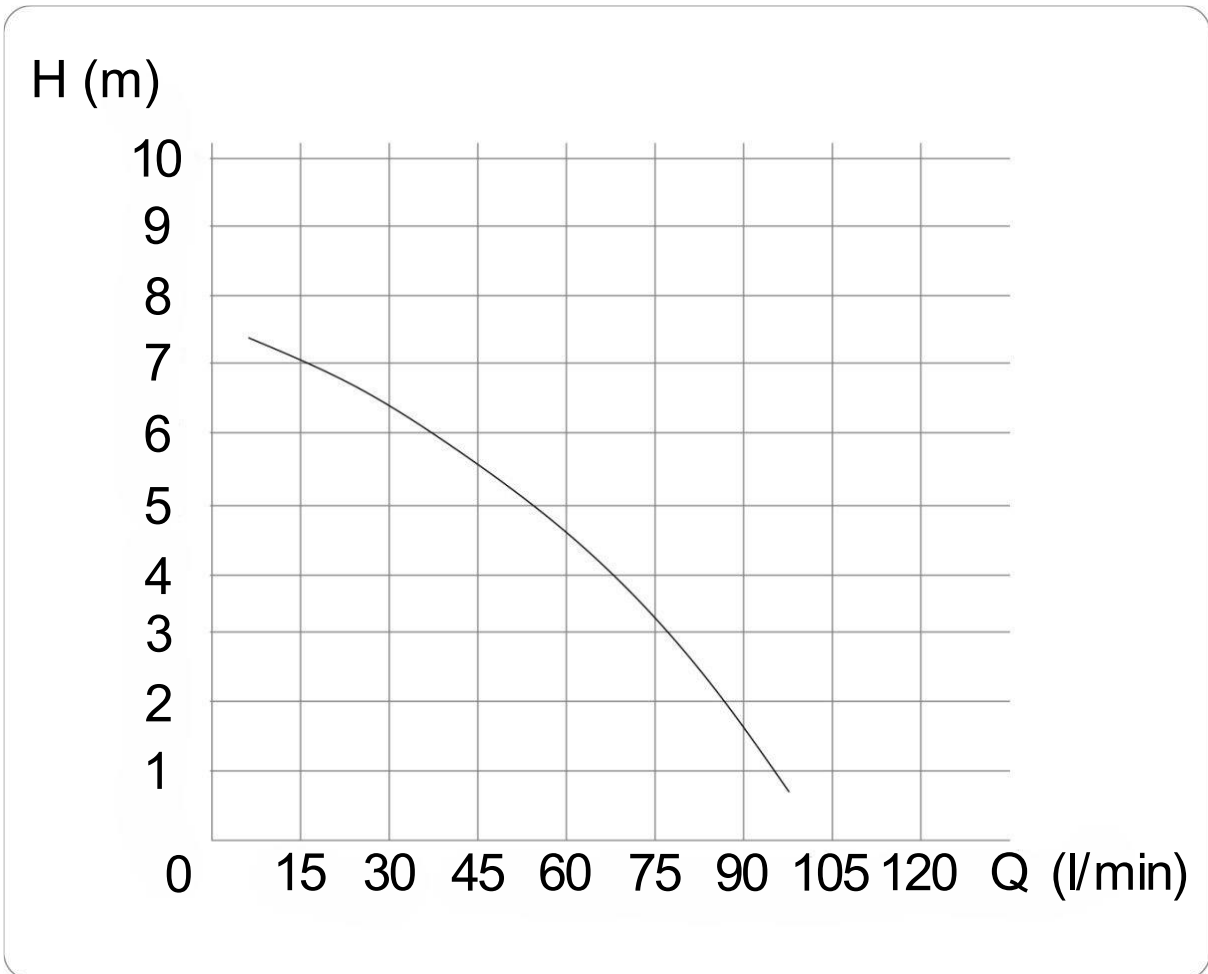


Figure 10: Distance

The minimum distance beneath the shower is 150 mm.

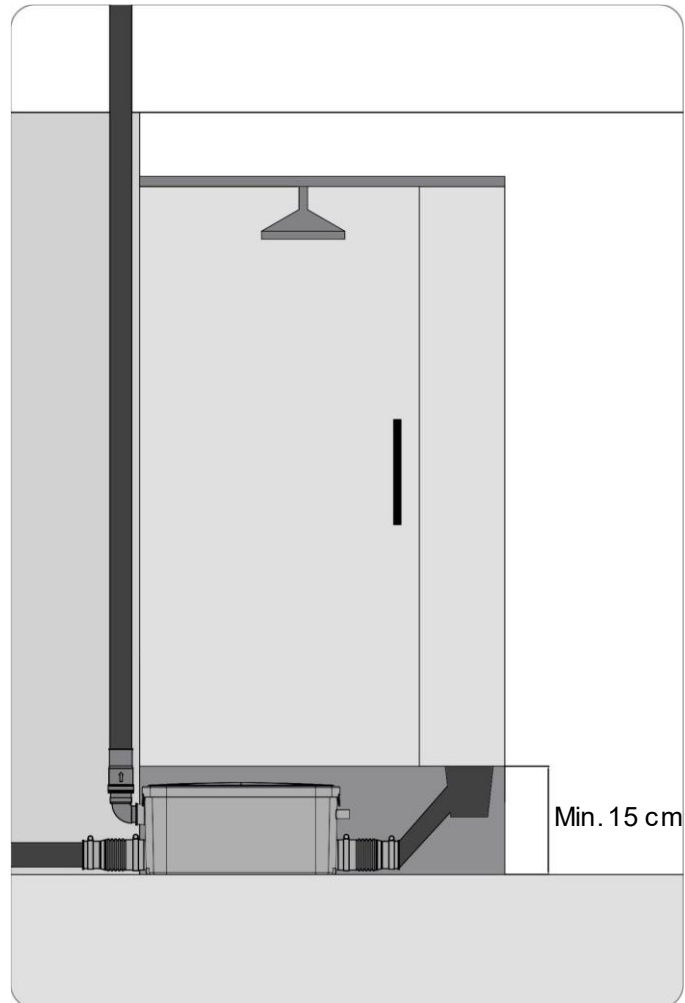
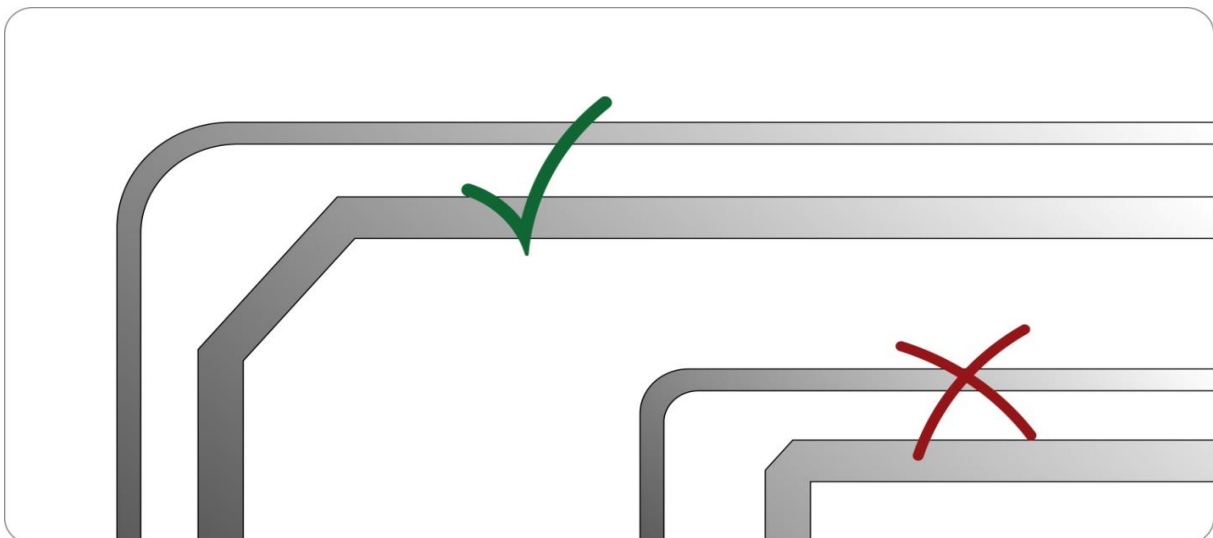
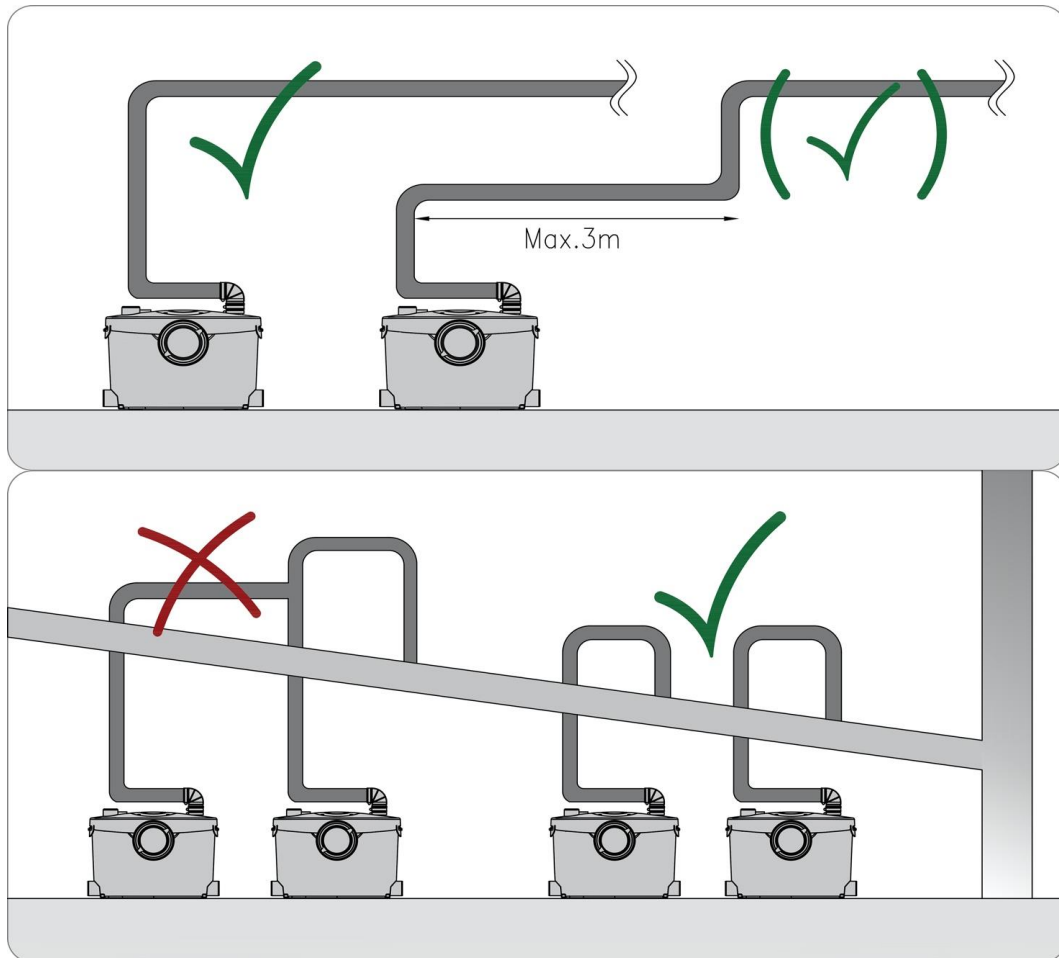


Figure 11: Elbow fittings

We recommend two 45° elbow fittings instead of one 90° elbow fitting.

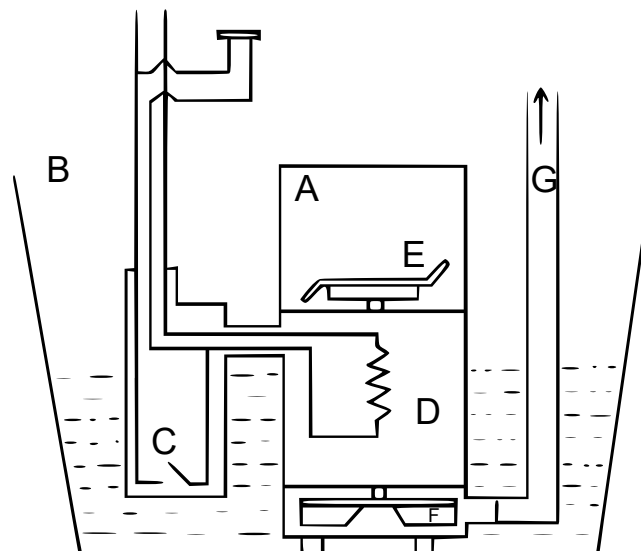


Figures 12 and 13: Outlet tube connection



Functional principle

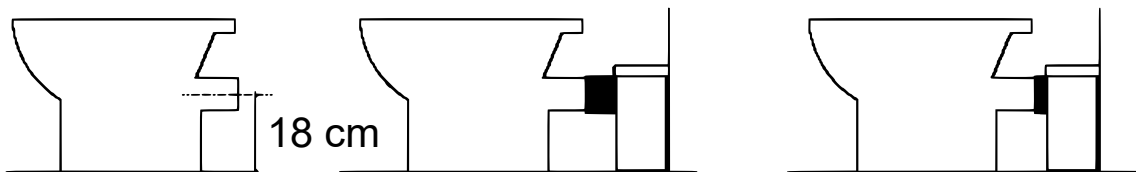
- The device is designed to pump wastewater from toilets and other sanitary facilities.
- It consists of an electric pump (**D**) automatically controlled by a float switch (**C**).
- The emptying process is triggered like with a conventional toilet by pressing the flush (see fig.).




Installation

Toilet connection

- First put some silicone or liquid soap on the toilet port.
- Fit the supplied collar onto the escape of the bowl.
- Pull the rubber lip over the toilet port.
- Position the hose clamp over the edge of the rubber lip and tighten it with a screwdriver.
- After the device has been set up, fasten it to the floor with the two screws supplied.
- If you are using the two floor mounting brackets, attach them to the floor before aligning the device.



 **Warning!** No water should drip from the toilet cistern or other sanitary facilities. If so, the unit will repeatedly be activated while draining the water. Therefore, always check if the tap or flush is turned off completely after use.

Drain pipe connection

Insert the outlet elbow into the rubber outlet pipe. Turn it in the desired direction and fasten it with the metal hose clamp supplied (36–50 mm). Then connect the hose using the 20–32 mm metal hose clamp, being careful not to kink the hose. A 22–32 mm plastic reducer is provided if a 32 mm drain line is to be installed.

Technical advice on drain pipes

- Horizontal pipes must have a gradient of at least 1:200 (5 mm/m) to the floor shaft.
- If a vertical lift is required, this must be done before the horizontal run at the beginning of the pipe run.
- We recommend installing a drainage point so that the drain pipe can be drained before maintenance work.
- If the drain line is significantly lower than the unit, the resulting siphoning effect can suck out the water seal in the unit. Installing an air inlet valve at the highest point of the pipeline solves this problem.
- The drainage pipes must be connected to the floor shaft with a suitable flange.
- Make sure that all external piping is sufficiently insulated to prevent possible freezing.

Note! Every angle on the pressure line of the system generates frictional losses (about 50 cm per angle piece must be deducted from the technical data for vertical conveyance). Always use even angles (or 2 45° elbows) and no 90° elbows.

Electrical supply connection

- The electrical installation should be carried out by a specialist.
- The device should be connected to a fully earthed electrical supply.




Commissioning the device

Once the electrical and wiring connections are made, flush the toilet or shower once. The motor should run for 5 to 10 s to remove the wastewater (depending on the height of the pipe run). If it runs longer than 20 s, check whether the pipes are free and whether the drain hose is kinked. Flush the toilet and check that all seals and connections are watertight and that the pump is switched on and off correctly. Check both the drain lines of the unit and the connections to the other sanitary facilities. The pump starts working automatically when water runs out through the shower or basin drain and stops automatically when all the water is pumped out. During this, the pump can run continuously or switch on and off several times.

Use and warning notices

- If you are going to be absent for a longer period (e.g., during holiday) or if other events such as a power cut-off that has been announced, a maintenance, or the renovation of your house are going to take place, we recommend that you turn off the water supply to the toilet operated by the unit.
- The toilet attached to this unit can be used like any normal toilet, requiring very little maintenance. The unit works by itself as soon as the required water level is reached in the housing.
- The overheating protection of the motor is switched on as soon as the motor is overheated. Pull the plug out of the socket and plug it in again. After a waiting time of around 30–60 min, the device will work normally again.
- If the power fails, connected water sources must not be operated before power is restored to avoid malfunction.

 **Warning!** The device is only suitable for the disposal of toilet paper, faeces, and sewage! Damage caused by foreign objects such as cotton, condoms, sanitary towels, wet wipes, food, hair, metal, wood, or plastic objects are not covered by the guarantee. Solvents, acids, and other chemicals can also damage the device and void the warranty.

Maintenance

- Disconnect the device from the power supply before starting work on it.
- No special maintenance work is required. However, repair jobs should be done by a qualified person, especially if the power cable must be replaced.
- This device is equipped with an activated carbon filter and does not require external ventilation.

Freezing protection

In regions prone to frost and freezing, the device must be protected from freezing by taking appropriate measures. This includes emptying all pipes and the pump body. To protect the system, antifreeze can be used. Pour 1 litre of antifreeze into a sink or other facility connected to the pump. This will activate the pump that will replace the remaining water by the antifreeze. The warranty will be void if any damages occur that have been caused by frost or freezing.



Troubleshooting

Problem	Cause	Solution
Motor running correctly, yet no water is being drained	Obstruction in pipe or valve	Clean pipe or valve.
	Outlet valve half closed	Check valve.
Pump not starting running, no water is being drained	Ventilation duct obstructed	Clean ventilation duct.
	Power cut off	Wait for the overheating protection switch to work again (approx. 20 min).
	Overheating protection switch not working properly	
Motor humming, yet not starting	Obstruction by foreign body/bodies	Check pump.
	Capacitor damaged	
Water being drained, yet motor continuing to run for a long time, overheating protection switch triggered	Drain pipe obstructed or bent	Check and repair.
	Membrane, gear wheel damaged, or pump partially obstructed	
After complete draining, motor is re-starting several times before going off	Water backflow towards pump, backflow valve not working properly	Flush once or twice with clean water to free valve. Remove and clean valve.
Motor emitting a loud noise, yet pump is not draining water, motor is not being switched off	Backflow from drain pipes or too little a counter-pressure within drain pipes, provoking air pockets	Modify drain pipes to prevent backflow or increase counter-pressure (e.g., by installing smaller pipes or installing an additional bend/elbow). If problem persist, contact expert.
	Foreign bodies	
Motor running, yet emitting unnatural noises	Foreign body in pump	Contact expert.
Water flowing back to shower or basin	Insufficient slope	Ensure a minimum slope of 0.64 cm at 30.5 cm (1/4" at 12") or 2 % between pump and connected facility.
	Inlet valve damaged	Clean inlet valve.

Regulations for waste disposal

The Waste Electrical and Electronic Equipment Directive (WEEE Directive, 2012/19/EU) of the EU was implemented in the German law related to electrical and electronic equipment and appliances.

All WilTec electric devices that fall under the WEEE directive are labelled with the symbol of a crossed-out wheeled rubbish bin. This symbol indicates that this electric device must not be disposed of with the domestic waste.

WilTec Technik GmbH is registered with the German registration authority EAR (Stiftung Elektro-Altgeräte Register) under the WEEE-registration number DE45283704.

Disposal of used electrical and electronic devices (intended for use in the countries of the European Union and other European countries with a separate waste collection system for these devices).

The symbol on the packaging or the product itself indicates that this product must not be treated as normal domestic waste but must be disposed of at a recycling collection station for electrical and electronic waste.

By disposing of this product correctly, you contribute to the protection of the environment and the health of your fellow people. Inappropriate disposal threatens the environment and health.



Material recycling helps to reduce the consumption of raw materials.

Additional information about the recycling of this product can be provided by your local commune, the municipal waste disposal facilities, or the store where you purchased the product.

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