

User's manual

Patio Heater 13,000 W

63021



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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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.

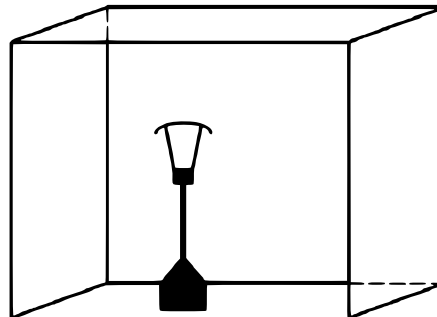
Safety instructions

Attention:

When you smell gas:

- **close gas supply.**
- **extinguish open flames.**
- **With gas smell persisting, immediately call gas supplier and fire brigade.**

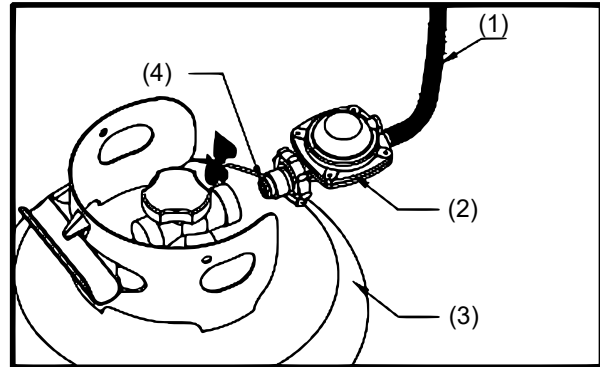
- Never store or use petrol or other highly flammable vapours and liquids near this device or similar devices.
- A disconnected liquid gas cylinder must not be stored near this device or comparable devices.
- Only suitable for outdoor use or in very well-ventilated areas. In such an area, at least a quarter of its total surface must be open. The total surface of an area is the total of its wall surfaces.



- Improper installation, adjustment, structural changes, maintenance, or care can cause property damage or injuries. Read the assembly, operation, and maintenance instructions carefully and completely before you start using the device.
- The device and gas cylinder must be set up in accordance with the applicable regulations.
- The ventilation slots in the gas cylinder housing must not be blocked.
- The device must not be moved while in operation.
- Gas lines and hoses must be replaced within the prescribed periods.
- Only gas and gas cylinders corresponding to the manufacturer's instructions may be used.
- A space with a maximum diameter of 29 cm and a height of 70 cm is available in the heater for the gas cylinder (not included in the scope of delivery). In strong winds, special care must be taken to ensure that the heater cannot fall over. The distance between the device and the gas cylinder must be at least 1 m.
- The injector of this device cannot be removed, it is only connected at the factory. It is forbidden to modify the device in such a way that it works at a pressure other than the set pressure.
- Do not connect the gas cylinder directly to the device without interposing a pressure reducing valve. Only use the gas and the type of gas cylinder specified in the instructions.
- The pressure reducing valve must match the respective device type in accordance with DIN EN16129:2013 and national standards:
 - A 30 mbar pressure reducing valve is used for butane/propane of category I3BP(30).
 - A 30 mbar pressure reducing valve is used for butane of category I3+(28-30/37).
 - A 37 mbar pressure reducing valve is used for propane of category I3+(28-30/37).

- A 50 mbar pressure reducing valve is used for butane/propane of category I3B/P(50).
- We recommend the use of a gas hose in accordance with DIN EN16436:2014.

Safety of use



- Carefully read the instructions to ensure that
 - the gas cylinder valve is only replaced in a very well-ventilated area and away from sources of ignition such as candles, cigarettes, etc.;
 - the pressure reducing valve seal (4) is checked for proper seating and readiness for use (see drawing);
 - the ventilation slots in the gas cylinder housing are not blocked;
 - after use, the gas supply is switched off at the gas cylinder valve;
 - the device is not put into operation when a gas leak occurs or, if it is already in operation, the gas supply is switched off, the device is checked thoroughly, and any damage is repaired before it is used again;
 - the gas hose (1) is checked at least once a month, but every time the gas cylinder (3) is replaced or after a long period of non-use, and that, if there are signs of breaks, cracks or other signs of wear and tear, it is replaced with a new hose of the same length and quality;
 - the device is not used in closed rooms; such use is dangerous and therefore **PROHIBITED!**
- The heater is not suitable for use on recreational vehicles and/or boats.
- The heater should only be installed and connected by a specialist.
- Do not try to modify the device in any way.
- Replace the pressure reducing valve (2) only with a factory-suggested replacement valve.
- Do not use petrol or other flammable vapours or liquids in the device.
- Before commissioning, the entire gas line system, the hoses, the pressure reducing valve, and the pilot flame/burner must be checked for leaks or damaged areas.
- The leak test should be carried out with a soap solution. Never use an open flame to look for leaks.
- Do not put the heater into operation until you have checked all connections for leaks.
- Immediately close the gas valve if you smell gas. If the connection between the hose and the pressure reducing valve is leaking, tighten it again and carry out another leak test. If bubbles continue appearing, contact the hose vendor. If the connection between the pressure reducing valve and the valve of the gas cylinder is leaking, loosen it, re-tighten it, and check it again for leaks. If bubbles still form after several tests, the gas cylinder valve is defective and must be returned to the seller.
- Do not move the heater when it is in operation. After taking it out of operation, do not move it until it has cooled down.
- Make sure that the ventilation slots are not blocked. Remove debris.
- Do not paint the hat, the protective grille, or the control panel.
- Check the setting unit, the burner, and the ventilation ducts for cleanliness. If necessary, they must be cleaned regularly.
- The liquid gas tank must be closed when the radiant heater is not in operation.
- Check the radiant heater immediately if one of the following events has occurred:
 - the heater does not reach the set temperature,
 - the burner makes a knocking noise when it is in operation (but a slight noise when the burner is switched off is normal),
 - a smell of gas in conjunction with extreme yellowing of the tip of the burner flame.
- The assembly of pressure reducing valve and hose must not be in the path of people. Care must be taken to prevent someone from tripping over it or over something nearby so that the hose is not accidentally damaged.

Personal safety

- Do not use the heater indoors; otherwise, there is a risk of property damage or injury.

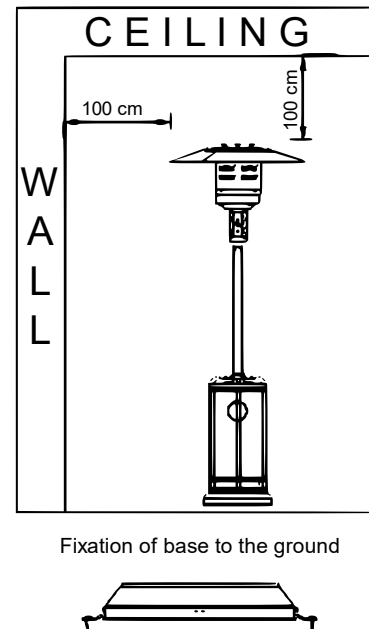
- Improper assembly, settings, or structural changes can result in property damage or injuries.
- Adults and children must not come too close to the very hot surfaces of the radiant heater so that they do not get burned and so that their clothing does not catch fire.
- Children near the radiant heater must be carefully supervised.
- Clothing or other flammable materials must not be hung on or near the heater.

Safety during repair and maintenance

- The heater should only be repaired by a specialist.
- Put a protective device that has been removed for maintenance purposes back on before restarting the heater.

Assembling and locating the heater

- The heater may only be used in outdoor areas and only in places where a sufficient supply of fresh air can be ensured.
- Make sure that there is sufficient space around the heater, i.e., 100 cm upwards and on all sides.
- The heater must be set up on a level and firm surface.
- Never operate the heater in potentially explosive environments, e.g., where petrol or other highly flammable liquids or vapours are stored.
- To prevent the heater from falling over in strong winds, its base must be screwed to the ground.



Gas requirements

- Only use propane or butane gas.
- The assembly of pressure reducing valve and hose must correspond to the local regulations.
- The installation must also comply with local requirements; if there are none, it must meet the standard requirements for the storage and treatment of liquefied gases.
- If the gas container is dented, rusted, or damaged, it should be checked by the seller of the gas cylinder. It can be very dangerous in this condition. Never use a gas container with a damaged valve connection.
- The propane gas tank must be set up in such a way that the vapours generated by the gas bottle can escape.
- Never connect a propane gas tank to the heater without also using a pressure reducing valve.

Leakage test

The gas connections attached to the heater are checked for leaks before shipping. However, a full leak test must also be carried out at the installation site, as damage may have occurred during transport due to improper handling or excessive pressure.

- Make a soap solution from one part liquid soap and one part water. This soap solution can be applied with a spray bottle, a brush, or a scrap of cloth. If there is a leak, bubbles will appear.
- The heater must be checked for leaks when the gas bottle is full.
- Make sure that the safety valve is in the OFF position.
- Turn on the gas supply.
- If a leak is found, the gas supply must be switched off again. Tighten any leaky connections, turn on the gas supply and check the tightness again.
- Never smoke during a leak test.



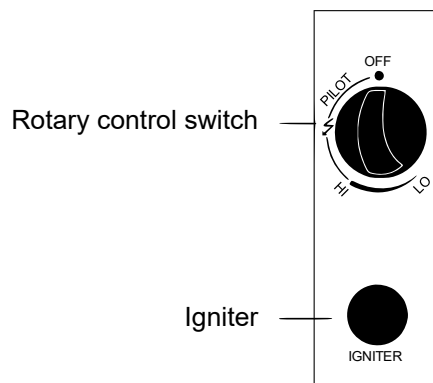
Operation and storage

Turning on the heater

1. Turn the valve on the gas bottle fully open.
2. Press the rotary control switch and turn it counter-clockwise to "PILOT."
3. Press the rotary control switch in and hold it down for 90 s. Meanwhile, press the ignition switch several times until a pilot flame starts to burn. Release the rotary control switch when the flame burns.

Notes:

- If a new gas container has been connected, wait at least one minute until the air in the gas line has escaped.
 - When igniting the pilot flame, make sure that the rotary control switch is held down the entire time you operate the ignition switch. When it burns, the rotary control switch can be released again.
 - The pilot flame can be observed and checked through the small round window; to do this, the cover at the lower end of the flame protection grille must be pushed to the side (to the left or right of the control unit).
 - If the pilot flame does not ignite or goes out again, repeat step 3.
4. After igniting the pilot flame, turn the rotary control switch to the highest setting for 5 min; then you can set it to the temperature desired.



Turning out the heater

1. Set the rotary control switch to "PILOT."
2. Press the rotary control switch and turn it to "OFF."
3. Completely close the valve on the gas bottle.

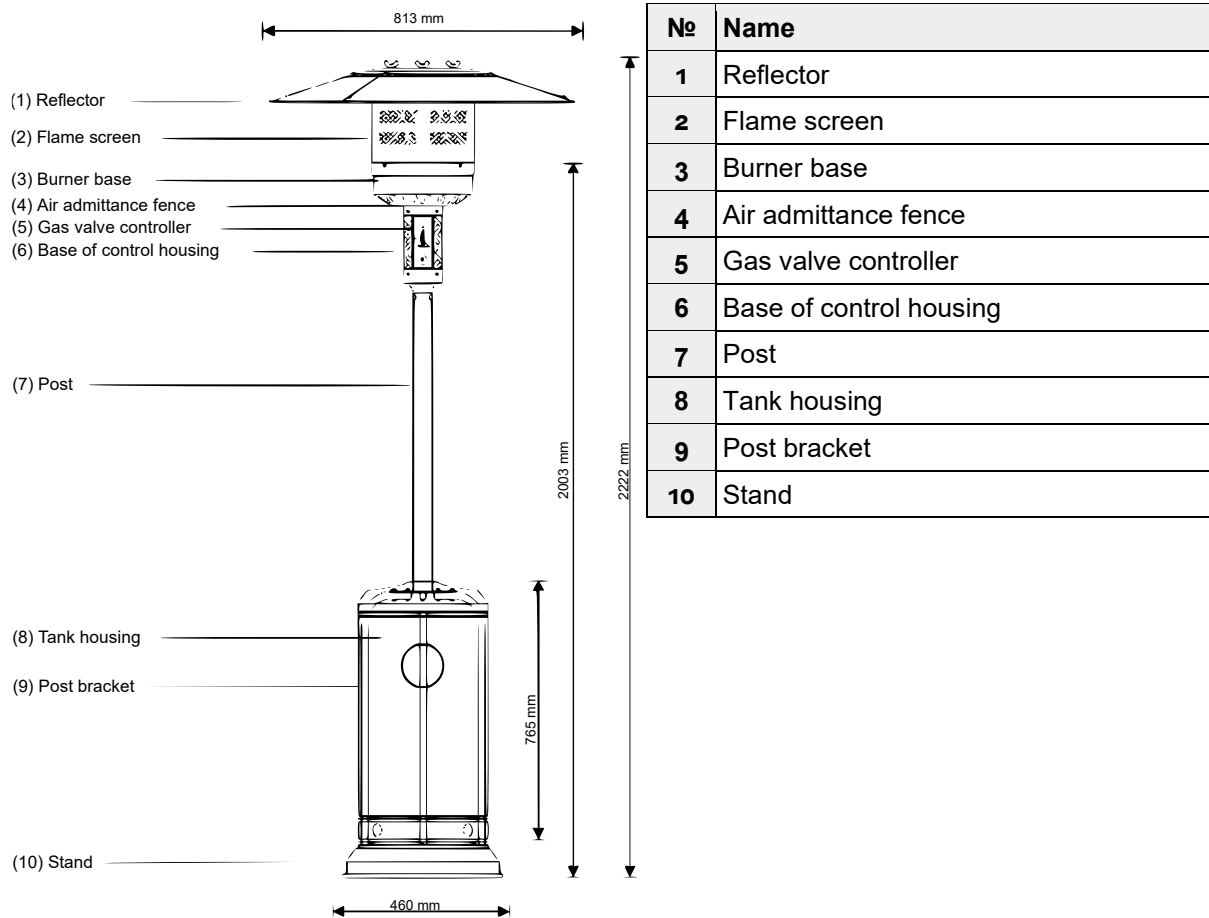
Storage

1. Close the gas cylinder valve after use or in the event of a malfunction.
2. Remove the pressure reducing valve and the gas hose.
3. Check the gas valve for leaks and damage. If you suspect damage, have the seller replace it.
4. Never store LPG cylinders in basements or in places without adequate airflow.

Cleaning and care

- Wipe powder-coated surfaces with a soft, damp cloth. Do not clean the heater with flammable or corrosive cleaning agents.
- Remove debris from the burner to keep it clean and safe to use.

Main components and their name



Construction and characteristics

- Portable patio/garden heater with gas container housing
- Housing made of powder-coated steel or stainless steel
- Gas hose connections with metal hose clamps (screw caps for Germany)
- Heat radiation from reflector

Technical specifications

Gas to be used		only propane, butane, or their mixture	
Max. power (W)		13,000	
Min. power (W)		5,000	
Consumption			
Category	Gas type	Gas pressure (mbar)	Outlet pressure of regulator (mbar)
I3+ (28–30/37)	Butane	28–30	30
	Propane	37	37
I3B/P (30)	Butane, propane, or their mixtures	30	30
I3B/P (50)		50	50
I3B/P (37)		37	37



Always use the pressure reducing valve corresponding to the above-mentioned outlet pressure.

Injectors

Category	Gas type	Gas pressure (mbar)	Total heat input (heating value H _s : rated power Q _N) (kW)	Injector size (mm)
I3+(28–30/37)	Butane	28–30	13 (G30: 945 % _h ; G31: 929 % _h)	1.90 (main burner) 0.18 (pilot burner)
	Propane	37		
I3B/P(30)	Butane, propane, or their mixtures	30		1.70 (main burner) 0.18 (pilot burner)
I3B/P(50)		50		
I3B/P(37)		37		

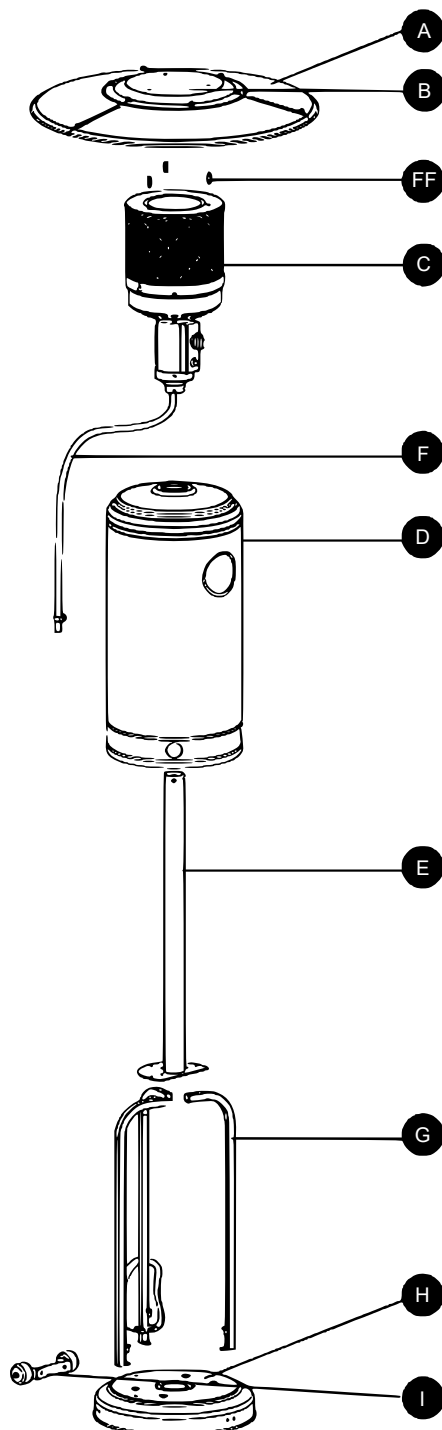
- The information on the injector, e.g., “1.90,” indicates the injector size, e.g., 1.90 mm.
- The gas hose and pressure reducing valve must comply with local regulations.
- The device requires a 1.4 m long approved hose.

Main components

Tools needed

- 10 mm and 13 mm open end wrench
- 20 cm adjustable spanner (2)
- 23 cm slip joint pliers
- Philips screwdriver with medium blade
- Spray bottle of soap solution for leak test

Figures



Nº	Name	Qty.
A	Reflector panel	3
B	Reflector plate	1
FF	Reflector stud	3
C	Head assembly	1
F	Gas hose	1
D	Gas cylinder housing	1
E	Post	1
G	Post bracket	3
H	Stand	1
I	Wheel kit	1

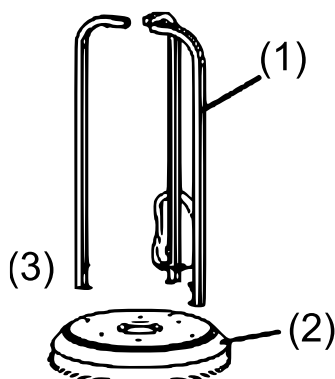
Hardware contents

AA	BB	CC	DD	EE	FF
M8 flange nut (2x)	M8x16 bolt (5x)	M6 flange nut (6x)	Stainless steel bolt (4x)	M6x30 bolt (6x)	Reflector spacer (3x)
GG	HH	II	JJ	KK	LL
ø8 washer (9x)	ø6 washer (9x)	M6x10 screw (9x)	Cap nut (9x)	Wing nut (3x)	Wrench (1x)

Assembly

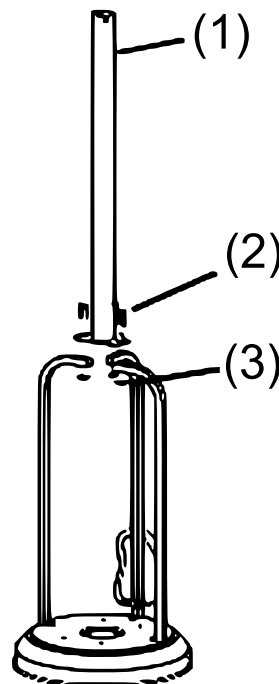
Step 1:

1. Put the 3 post brackets (1) on each position on the stand (2) as shown.
2. Use 3 M8x16 bolts (3) for connecting.



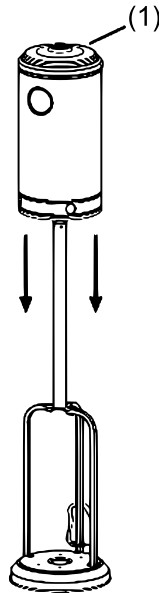
Step 2:

1. Put the post (1) on the top of the post brackets.
2. Use 6 large M6 bolts (2) and counter-nuts (3) to connect the post to the post brackets. Tighten the bolts and nuts.



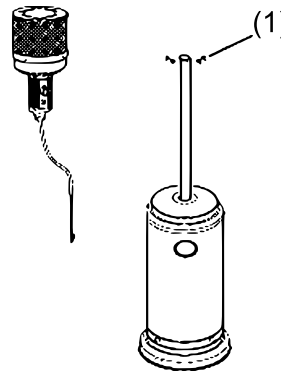
Step 3:

Put the gas cylinder housing (1) over the post from above and place it on the stand.



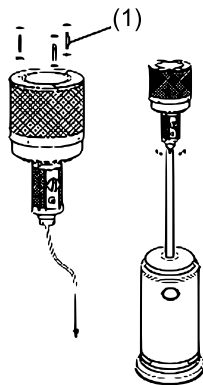
Step 4:

1. Remove the 4 bolts (1) from the burner.
2. Push the gas hose through the post from above.
3. Fix the burner unit to the post by the 4 bolts.



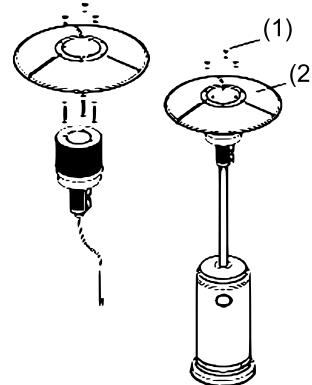
Step 5:

1. Check if the connection of the post and burner are assembled according to instructions, and all bolts and nuts are tightened.
2. Put 6 large flat washers on the 3 reflector spacers (1).



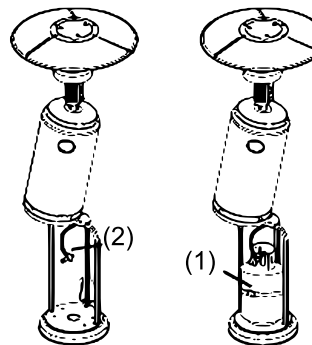
Step 6:

Fasten the reflector (2) with 3 large flat washers and 3 wing nuts (1).



Step 7:

1. Lift the gas cylinder housing and place it on the post bracket.
2. Connect the end thread of the inlet gas hose to the pressure reducing valve.
3. Connect the pressure reducing valve (2) to the gas container (1) and tighten with an adjustable wrench.
4. Place the liquid gas container on the stand.
5. Fasten the gas cylinder with the strap.





Troubleshooting

Problem	Possible cause	Proposed solution
Pilot flame does not ignite.	Gas valve closed	Open gas valve.
	Fuel used up	Refill fuel.
	Opening clogged	Clean or replace opening.
	Air in the gas hose system	Let air out of the lines.
	Lose connections	Re-tighten connections.
Pilot flame does not stay on.	Deposits on pilot flame	Clean contaminated areas.
	Lose connections	Re-tighten connections.
	Defective heat sensor	Replace heat sensor.
	Leaking gas line	Check connections.
	Insufficient fuel pressure	Container almost empty; refill.
Burner does not light.	Insufficient fuel pressure	Container almost empty; refill or replace.
	Opening clogged	Clean or replace opening.
	Control not on.	Turn valve to On.
	Defective heat sensor	Replace heat sensor.
	Pilot light unit bent	Properly place pilot light unit.
	Not in correct location	Position properly and retry.

If the device shows any errors during assembly or use, do not try to modify it, but contact the seller.

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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