

OPERATING MANUAL FAN HEATER







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Notes regarding the operating manual

Symbols



Warning of electrical voltage

This symbol indicates dangers to the life and health of persons due to electrical voltage.



Warning of hot surface

This symbol indicates dangers to the life and health of persons due to hot surface.



Warning

This signal word indicates a hazard with an average risk level which, if not avoided, can result in serious injury or death.



Caution

This signal word indicates a hazard with a low risk level which, if not avoided, can result in minor or moderate injury.

Note

This signal word indicates important information (e.g. material damage), but does not indicate hazards.



Info

Information marked with this symbol helps you to carry out your tasks quickly and safely.



Follow the manual

Information marked with this symbol indicates that the operating manual must be observed.

You can download the current version of the operating manual and the EU declaration of conformity via the following link:



TFC 18 E



https://hub.trotec.com/?id=41434

Safety

Read this manual carefully before starting or using the device. Always store the manual in the immediate vicinity of the device or its site of use.



Warning

Read all safety warnings and all instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved

Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.



Warning

Children of less than 3 years should be kept away from the device unless continuously supervised.

Children aged from 3 years and less than 8 years shall only switch on/off the appliance provided that it has been placed or installed in its intended normal operating position and they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children aged from 3 years and less than 8 years shall not plug in, regulate and clean the appliance or perform user maintenance.





Warning

Do not use the device in small rooms if persons are present who cannot leave the room independently and who are not under constant supervision.

- Do not use the device in potentially explosive rooms or areas and do not install it there.
- Do not use the device in aggressive atmosphere.
- Only put up the device in an upright, stable position on firm ground.
- Only use this heating device when it is positioned on a horizontal and stable surface on the floor.
- Let the device dry out after a wet clean. Do not operate it when wet.
- Do not use the device with wet or damp hands.
- Do not expose the device to directly squirting water.
- Never insert any objects or limbs into the device.
- Do not cover the device during operation.
- Do not remove any safety signs, stickers or labels from the device. Keep all safety signs, stickers and labels in legible condition.
- Do not sit on the device.
- This appliance is not a toy. Keep away from children and animals. Do not leave the device unattended during operation.
- Check accessories and connection parts for possible damage prior to every use of the device. Do not use any defective devices or device parts.
- Ensure that all electric cables outside of the device are protected from damage (e.g. caused by animals). Never use the device if electric cables or the power connection are damaged!
- The mains connection must correspond to the specifications in the Technical annex.
- Insert the mains plug into a properly fused mains socket.
- Observe the device's power input, cable length and intended use when selecting extensions to the power cable. Completely unroll extension cables. Avoid electrical overload.
- Before carrying out maintenance, care or repair work on the device, remove the mains plug from the mains socket.
 Hold onto the mains plug while doing so.
- Switch the device off and disconnect the power cable from the mains socket when the device is not in use.
- Do not under any circumstances use the device if you detect damages on the mains plug or power cable.
 If the power cable is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
 Defective power cables pose a serious health risk!

- When positioning the device, observe the minimum distances from walls and other objects as well as the storage and operating conditions specified in the Technical annex.
- Keep a safety distance of at least 1 m between the air inlet and the air outlet of the device and all combustible materials such as textiles, curtains, beds and sofas.
- Make sure that the air inlet and outlet are not obstructed.
- Make sure that the suction side is kept free of dirt and loose objects.
- Do not place the device on combustible ground.
- Only use original spare parts, for otherwise safe and functional operation cannot be ensured.
- Allow the device to cool down before transport and/or maintenance work.
- The device must not be positioned directly beneath a wall socket.
- Do not use the device if it has been dropped or if it shows visible signs of damage.

Intended use

The device is only suitable for well insulated spaces or occasional use.

The fan heater serves the purpose of heating and ventilating closed rooms. The device was designed for private usage and is not suited for commercial use. The device is particularly well suited for additional heating. The device is only intended for floor installation.

Foreseeable misuse

- Do not place the device on wet or flooded ground.
- Do not place any objects, e.g. clothing, on the device.
- Do not use this device in the vicinity of fuel, solvents, varnishes or other easily inflammable vapours or in rooms where these substances are stored.
- Do not use the device out of doors.
- Do not use the device for heating vehicles.
- This heating device must not be used in wet rooms (e.g. bathrooms or laundry rooms).
- Never immerse the device in water.
- Never heat rooms with a cubature of less than 4 m³. Risk of overheating!
- Any use other than the intended use is regarded as a reasonably foreseeable misuse.
- Do not make any unauthorised modifications, alterations or structural changes to the device.



Personnel qualifications

People who use this device must:

- be aware of the dangers that occur when working with electric devices in damp areas.
- have read and understood the operating manual, especially the Safety chapter.

Maintenance tasks which require the housing to be opened must only be carried out by specialist electrical companies or by Trotec.

Symbols on the device

Symbols	Meaning
	This symbol located on the device indicates that it is prohibited to place objects (such as towels, clothes etc.) above or directly in front of the device.
	In order to avoid overheating and fire hazards, the heater must not be covered.

Residual risks



Warning of electrical voltage

Work on the electrical components must only be carried out by an authorised specialist company!



Warning of electrical voltage

Before any work on the device, remove the mains plug from the mains socket!

Do not touch the mains plug with wet or damp hands. Hold onto the mains plug while pulling the power cable out of the mains socket.



Warning of electrical voltage

Risk of electric shock!

The device must not come into contact with water, otherwise there is a risk of an electric shock!

Do not use this heating device in wet rooms!



Warning of hot surface

Parts of this appliance can become very hot and cause burns. Particular attention is to be paid when there are children or vulnerable persons present!



Warning

Improper handling entails a risk of burning and electric shock.

Only use the device as intended!



Warning

Dangers can occur at the device when it is used by untrained people in an unprofessional or improper way! Observe the personnel qualifications!



Warning

The device is not a toy and does not belong in the hands of children.



Warning

Risk of suffocation!

Do not leave the packaging lying around. Children may use it as a dangerous toy.



Warning

Improper installation entails a risk of fire.

Do not place the device on combustible ground.

Do not place the device on high-pile carpets.



Warning

In order to avoid overheating and fire hazards, the device must not be covered!

Note

Do not operate the device without an air filter inserted into the air inlet!

Without the air filter, the inside of the device will be heavily contaminated. This could reduce the performance and result in damage to the device.

Behaviour in the event of an emergency

- 1. Switch the device off.
- In an emergency, disconnect the device from the mains feed-in: Hold onto the mains plug while pulling the power cable out of the mains socket.
- 3. Do not reconnect a defective device to the mains.



Overheating protection

The device is provided with a safety thermostat which is activated by overheating of the device (when exceeding the operating temperature).

Once the safety thermostat has switched itself on, the device will be turned off.

When the device has cooled down sufficiently, the heating will be switched back on.

If the safety thermostat does not switch in the event of overheating, the overheating protection will be tripped. In that case the device switches off completely.

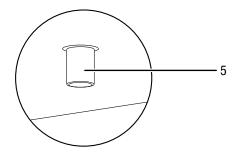
Hold onto the mains plug while pulling the power cable out of the mains socket. Once the device has cooled down sufficiently, reinsert the mains plug into a mains socket.

Investigate the cause of overheating.

Tilt protection

The device is equipped with a tilt protection switch (5). The tilt protection is a safety device intended to minimize the risk of fire in case the device is tipped over inadvertently. The device will be switched off when knocked over (or if its upright position is changed in any other manner).

The tilt protection switch is located at the bottom of the device.



It is impossible to use the device unless the tilt protection switch (5) was pushed entirely into the device. This occurs automatically when placing the device on suitable ground.

The tilt protection switches the device off when it is inclined by a few degrees out of its vertical position. The tilt protection is also tripped when lifting the device a little, e.g. for transport during operation. The device can again be used as usual only a few seconds after placing it back in vertical position and on solid ground.

Information about the device

Device description

The ceramic heater serves to generate and distribute warm air, e.g. in interior spaces.

The device generates heat by means of a ceramic heating element. The air surrounding the ceramic heating element is heated. The heated air is blown into the room by a fan.

The device is equipped with an integrated thermostat and so generates a constant flow of warm air.

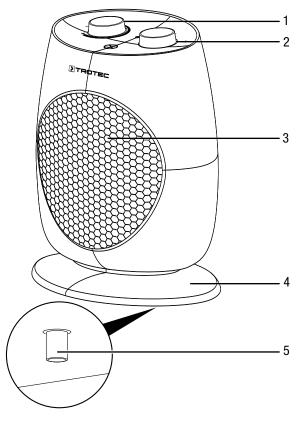
Moreover, the device comes with an on-demand 70° oscillation for an even better distribution of the warm air in the room.

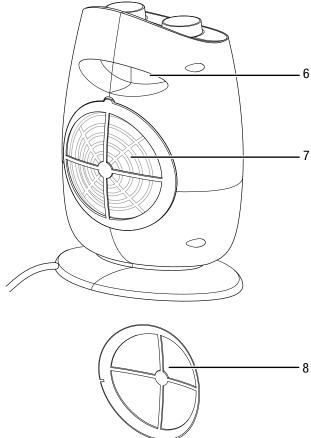
The device is further equipped with an overheating protection and a tilt protection switch integrated in the device base.

Fan operation without heating function is also possible.



Device depiction





No.	Designation
1	Rotary switch room thermostat
2	Function selector switch ventilation, heating levels, oscillation
3	Air outlet
4	Foot
5	Tilt protection switch
6	Transport handle
7	Air inlet with air filter
8	Air filter

Transport and storage

Note

If you store or transport the device improperly, the device may be damaged.

Note the information regarding transport and storage of the device.

Transport

Before transporting the device, observe the following:

- Switch the device off.
- Hold onto the mains plug while pulling the power cable out of the mains socket.
- Do not use the power cable to drag the device.
- Allow the device to cool down sufficiently.

Storage

Before storing the device, proceed as follows:

- Hold onto the mains plug while pulling the power cable out of the mains socket.
- Allow the device to cool down sufficiently.

When the device is not being used, observe the following storage conditions:

- Store the device in a dry location and protected from frost and heat.
- Store the device in an upright position where it is protected from dust and direct sunlight.
- If required, use a cover to protect the device from invasive dust.
- Place no further devices or objects on top of the device to prevent it from being damaged.



Assembly and start-up

Scope of delivery

- 1 x Device
- 1 x Manual

Unpacking the device

- 1. Open the cardboard box and take the device out.
- 2. Completely remove the packaging.
- 3. Fully unwind the power cable. Make sure that the power cable is not damaged and that you do not damage it during unwinding.

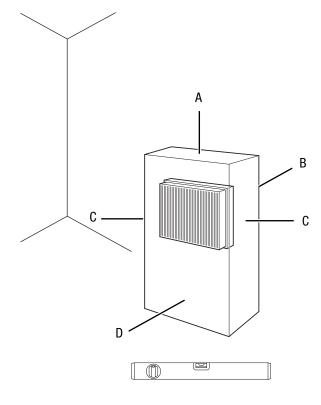
Start-up



Info

Odours might arise upon initial start-up or after a longer period of non-use.

When positioning the device, observe the minimum distance from walls or other objects as described in the chapter Technical annex.



- Before restarting the device, check the condition of the power cable. If there are doubts as to the sound condition, contact the customer service.
- Do not create tripping hazards when laying the power cable or other electric cables, especially when positioning the device in the middle of the room. Use cable bridges.

- Make sure that extension cables are completely unrolled.
- Make sure that no curtains or other objects interfere with the air flow.
- Do not position the device directly below a wall socket.
- Make sure that the device cannot come into contact with moisture or water.

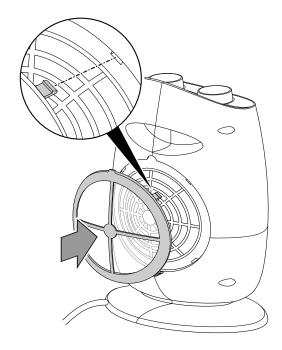
Inserting the air filter

Note

Do not operate the device without an air filter inserted into the air inlet!

Without the air filter, the inside of the device will be heavily contaminated. This could reduce the performance and result in damage to the device.

 Make sure that the air filter is installed before switching the device on.



Connecting the power cable

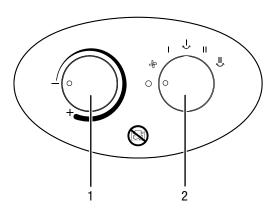
- Insert the mains plug into a properly fused mains socket.
- Make sure that the power cable is guided along the back of the device. Never guide the power cable along the front of the device!



Operation

Avoid open doors and windows.

Control panel



No.	Designation
1	Rotary switch room thermostat
2	Function selector switch for ventilation, heating levels and oscillation o : OFF
	★ : cold air / ventilation
	I : heating level 1 (1100 W) II : heating level 2 (1800 W)
	: heating level 1 and oscillating
	: heating level 2 and oscillating

Switching the device on

Once you have completely installed the device as described in the chapter Assembly and start-up, you can switch it on.



Info

The device will not be switched on until the room temperature falls below the temperature set at the room thermostat.

Setting the heating level



Info

Choose the smaller power stage e.g. for a smaller room. Should it turn out to be insufficient, switch to the higher level.

- 1. Set the function selector switch (2) to I.
 - \Rightarrow The device operates at heating level 1.
- 2. In order to achieve the maximum heating performance, set the function selector switch (2) to position **II**.
 - ⇒ The device operates at heating level 2.

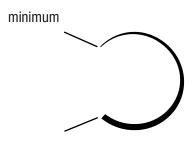
Cold air operation

If you want to use the device as fan, set the function selector switch (2) to the fan stage \aleph .

Turn the stepless rotary switch (1) of the room thermostat until the device switches on.

Setting the room thermostat

1. Select the desired temperature via the stepless rotary switch (1) of the room thermostat.



maximum

To find the ideal thermostat setting, please proceed as follows:

- 1. Set the thermostat control to maximum.
- 2. As soon as the desired temperature has been reached, slowly turn the thermostat control back until the device is switched off.
 - ⇒ The device now automatically maintains the desired temperature level.

The room thermostat controls the room temperature automatically:

- When the set value is exceeded, the heating switches off.
- When the set value is fallen below, the heating automatically switches back on.



Info

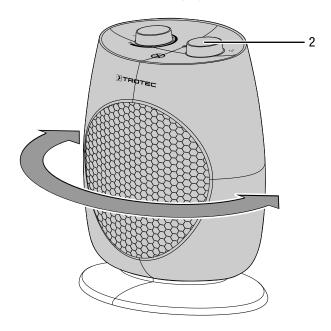
The desired room temperature should be higher than the current room temperature.



Using the oscillation function

By means of the oscillation function you can achieve consistent heating or ventilation.

- 1. Set the function selector switch (2) to either \checkmark or \checkmark .
 - ⇒ The oscillation function is activated.
 - ⇒ The device operates at heating level 1 or 2.
 - \Rightarrow The device turns to and fro by up to 70°.



2. Set the function selector switch (2) to position **I** or **II** to switch the oscillation function back off.

Note

Never attempt to manually adjust the pivoting mechanism. The mechanism could be damaged. Only change the air flow direction by use of the function selector switch.

Shutdown



Warning of electrical voltage

Do not touch the mains plug with wet or damp hands.

- Set the rotary switch (1) of the room thermostat to the lowest level.
- Turn the function selector switch (2) to the

 position (ventilation only).
- Keep the fan running for 3 minutes before switching the device off.
- Switch the device off by setting the function selector switch (2) to the **0** position.
- Hold onto the mains plug while pulling the power cable out of the mains socket.
- Allow the device to cool down completely.
- Clean the device according to the Maintenance chapter.
- Store the device according to the Transport and storage chapter.



Errors and faults



Warning of electrical voltage

Tasks which require the device to be opened must only be carried out by authorised specialist companies or by Trotec.

The device has been checked for proper functioning several times during production. If malfunctions occur nonetheless, check the device according to the following list.

The device does not start:

- Check the power connection.
- Check the power cable and mains plug for damage. If you notice damages, do not try to take the device back into operation.
 - If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Check the on-site fusing.
- Check the room temperature. The room thermostat may have switched off, because the desired room temperature has been reached.
- The motor might be defective. Have a defective motor replaced by a specialist electrical company.
- Check whether the device is standing upright and on level ground. The tilt protection may have been tripped owing to the fact that the device was knocked over. Always put up the device in an upright position on a suitable, sufficiently dimensioned surface.
- The room thermostat might be defective. Have a defective room thermostat replaced by a specialist electrical company.
- The overheating protection may have been tripped. Have a specialist electrical company or Trotec check the electrics and replace the overheating protection.
- Wait for 10 minutes before restarting the device. If the device is not starting, have the electrics checked by a specialist company or by Trotec.

The device is switched on, the fan is operating, the heating is not:

- Check whether a heating level is selected.
- Check the room temperature. The room thermostat may have switched off, because the desired room temperature has been reached.
- Check whether the overheating protection has tripped (see chapter Safety).
- The heating resistor might have blown. Have a defective heating resistor replaced by a specialist electrical company.
- The room thermostat might be defective. Have a defective room thermostat replaced by a specialist electrical company.

The fan does not run:

- Check whether the device is switched on.
- Check the power connection.
- Check the power cable and mains plug for damages.
- Check whether the fan stage has been selected.
- Check whether the room thermostat is switched on. Use the stepless rotary switch of the room temperature to set a temperature that is higher than the current room temperature.
- The fan motor might be defective. Have a defective fan motor replaced by a specialist electrical company.

The air current is reduced:

 Check the air inlet and outlet. Make sure that air inlet and outlet are not obstructed. Remove any dirt. Observe the minimum distance from walls or other objects according to the technical data.

The device is loud or is losing performance:

 Check the air filter for dirt. If necessary, clean or replace the air filter.

The device is loud or vibrates:

 Check whether the device is set up in a stable and upright position.

Note

Wait for at least 3 minutes after maintenance and repair work. Only then switch the device back on.

The device still does not operate correctly after these checks:

Please contact the customer service. If necessary, bring the device to an authorised specialist electrical company or to Trotec for repair.



Maintenance

Activities required before starting maintenance



Warning of electrical voltage

Do not touch the mains plug with wet or damp hands.

- Switch the device off.
- Hold onto the mains plug while pulling the power cable out of the mains socket.
- Allow the device to cool down completely.



Warning of electrical voltage

Tasks which require the device to be opened must only be carried out by authorised specialist companies or by Trotec.

Cleaning the housing



Warning of electrical voltage

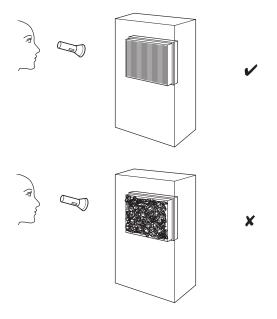
Never immerse the device in water!

Clean the housing with a soft, damp and lint-free cloth. Make sure that no moisture enters the housing. Protect electrical components from moisture. Do not use any aggressive cleaning agents such as cleaning sprays, solvents, alcohol-based or abrasive cleaners to dampen the cloth.

Wipe the housing dry after cleaning.

Visual inspection of the inside of the device for dirt

- 1. Remove the air filter.
- 2. Use a torch to illuminate the openings of the device.
- 3. Check the inside of the device for dirt.
- If you see a thick layer of dust, have the inside of the device cleaned by a specialist electrical company or by Trotec.
- 5. Put the air filter back in.



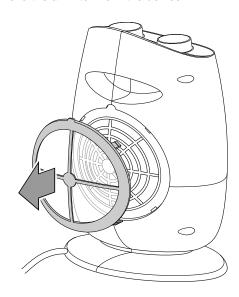
Cleaning the air filter

Note

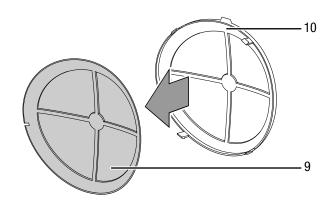
Ensure that the air filter is not worn or damaged. The air filter edges must not be deformed. Before reinserting the air filter, make sure that it is undamaged and dry!

The air filter has to be cleaned as soon as it is dirty. This is brought to light e.g. by a reduced capacity (see chapter Errors and faults).

1. Remove the air filter from the device.

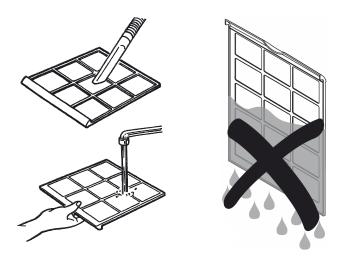


2. Remove the filter insert (9) from the filter retainer (10).

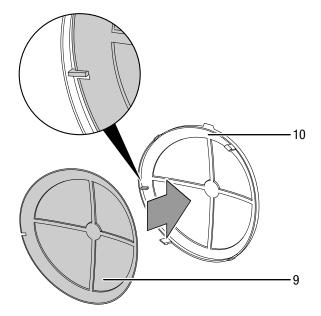




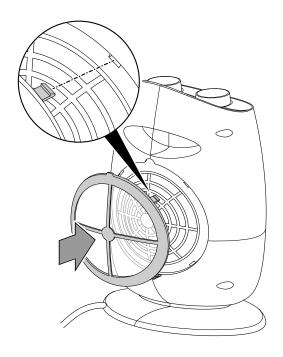
3. Clean the filter using a slightly damp, soft, lint-free cloth. If the filter is heavily contaminated, clean it with warm water mixed with a neutral cleaning agent.



- 4. Allow the filter to dry completely. Do not insert a wet filter into the device!
- 5. Refit the filter insert (9) into the filter retainer (10). Make sure that the protruding part in the filter retainer (10) is locked in the designated groove in the filter insert (9). The filter insert (9) must click into place in the filter retainer (10).



6. Reinsert the air filter into the device.





Technical annex

Technical data

Parameter	Value
Model	TFC 18 E
Heating capacity	
	ventilation only
	1100 W
level 3:	1800 W
Operating range	-10 °C to +25 °C
Mains connection	220 – 230 V / 50 Hz
Max. power input	1800 W
Nominal current consumption	7.8 A
Fusing	10 A
Plug type	Schuko plug CEE 7/17
Cable length	1.5 m
Sound pressure level (at a distance	48 dB(A)
of 1 m)	
Protection class	II / 🗆
Protection type	IP20
Overheating protection	65 °C
Dimensions (depth x width x height)	148 x 220 x 315 mm
Minimum distance to walls and	
other objects	
	100 cm
	100 cm
	100 cm
D: front:	100 cm
Weight	2 kg



Information requirements for electrical local space heaters

Parameter	Value / item			
Model	TFC 18 E			
Heat output				
Nominal heat output P _{nom}	1.8 kW			
Minimum heat output (indicative) P _{min}	1.0 kW			
Maximum continuous heat output P _{max,c}	1.8 kW			
Auxiliary electricity consumption				
At nominal heat output el _{max}	1.638 kW			
At minimum heat output el _{min}	0.935 kW			
In standby mode el _{sb}	NA			
Type of heat input				
Manual heat charge control, with integrated thermostat	NA			
Manual heat charge control with room and/or outdoor temperature feedback	NA			
Electronic heat charge control with room and/or outdoor temperature feedback	NA			
Fan assisted heat output	NA			
Type of heat output/room temperature control				
Single stage heat output, no room temperature control	NO			
Two or more manual stages, no room temperature control	NO			
With mechanic thermostat room temperature control	YES			
With electronic room temperature control	NO			
With electronic room temperature control plus day timer	NO			
With electronic room temperature control plus week timer	NO			
Other control options				
Room temperature control, with presence detection	NO			
Room temperature control, with open window detection	NO			
With distance control option	NO			
With adaptive start control	NO			
With working time limitation	NO			
With black bulb sensor	NO			
Contact details	Trotec GmbH Grebbener Straße 7 D-52525 Heinsberg			

NA = not applicable



Disposal

Always dispose of packing materials in an environmentally friendly manner and in accordance with the applicable local disposal regulations.

The icon with the crossed-out waste bin on waste electrical or electronic equipment stipulates that this equipment must not be disposed of with the household waste at the end of its life. You will find collection points for free return of waste electrical and electronic equipment in your vicinity. The addresses can be obtained from your municipality or local administration. You can also find out about other return options that apply for many EU countries on the website https://hub.trotec.com/?id=45090. Otherwise, please contact an official recycling centre for electronic and electrical equipment authorised for your country.

The separate collection of waste electrical and electronic equipment aims to enable the re-use, recycling and other forms of recovery of waste equipment as well as to prevent negative effects for the environment and human health caused by the disposal of hazardous substances potentially contained in the equipment.

Only for United Kingdom

According to Waste Electrical and Electronic Equipment Regulations 2013 (2013/3113) devices that are no longer usable must be collected separately and disposed of in an environmentally friendly manner.

Trotec GmbH

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