

TRH 20 E / TRH 21 E / TRH 22 E / TRH 23 E / TRH 24 E

EN

INSTRUCTIONS OIL-FILLED RADIATOR



EN This product is only suitable for well insulated spaces or occasional use.

 **TROTEC**

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Information on the use of these instructions

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.

Notice

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

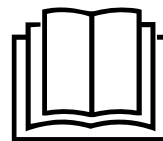
Information marked with this symbol indicates that the instructions must be observed.

You can download the current version of these instructions via the following link:



TRH 20 E / TRH 21 E

<https://hub.trotec.com/?id=43931>



TRH 22 E / TRH 23 E

<https://hub.trotec.com/?id=43932>



TRH 24 E

<https://hub.trotec.com/?id=45462>

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 done 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 an aggressive atmosphere.
- Place the device in an upright and stable position on a horizontal and stable surface.
- 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.
- 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 supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
Defective power cables pose a serious health risk!
- The power cable must not rest on the device or run in front of the air outlet, otherwise it may be damaged as a result of high temperatures.
- When installing the device, observe the minimum distances from walls and other objects as well as the storage and operating conditions according to the technical data (chapter Technical annex).
- 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.
- Keep the safety distance specified in the technical data between the air inlet and the air outlet of the device and all combustible materials such as textiles, curtains, beds and sofas, but at least 1 m.

Intended use

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

The device is only intended to be used as additional heating device in dry, closed rooms whilst adhering to the technical data. For intended use it must only be positioned on the ground.

Any use other than the intended use is regarded as misuse.

Reasonably 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 outdoors.
- Never immerse the device in water.
- Do not use the device for heating vehicles.
- Never heat rooms with a cubature of less than 4 m³. Risk of overheating!
- Please bear in mind that our devices are not designed for the application in business, craft or industrial enterprises. We do not accept any liability if the device is used in business, craft or industrial enterprises as well as for similar applications.
- Do not make any unauthorised modifications, alterations or structural changes to the device.


Personnel qualification

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 instructions, especially the Safety chapter.

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

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 is not protected against water. There is a risk of electric shock! Never use the device in areas where dripping, spraying or running water can enter the device! Never immerse the device in water!



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

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!

Behaviour in the event of an emergency

1. Switch the device off.
2. Disconnect the device from the mains by removing the mains plug from the socket. When doing so, be sure to hold the plug, not the cable.
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).

Investigate the cause of overheating.

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. If so, please contact the customer service to have the overheating protection replaced.

Tilt protection

The device comes equipped with a tilt protection. 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 switches the device off when it is inclined out of its vertical position. 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 oil-filled radiator is used to generate warm air for interior spaces.

The device comes with 3 performance levels and an infinitely variable thermostat with the following maximum power values:

- TRH 20 E: 2,000 watts
- TRH 21 E: 2,500 watts
- TRH 22 E: 2,400 watts (performance with fan)
- TRH 23 E: 2,900 watts (performance with fan)
- TRH 24 E: 2,200 watts

The heat electrically generated by the heating elements within the device is absorbed by the heating medium oil. The heating medium oil offers the advantages of quick heat-up and long-term heat storage capacity. On these grounds the heating medium oil can guarantee a continuous heat emission. The radiator's 9 or 11 ribs increase the heat radiating surface and so enhance its effectiveness.

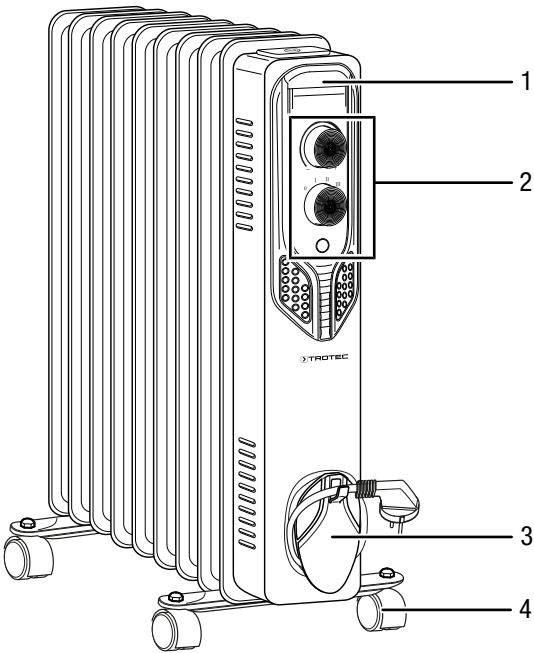
The device is further equipped with an overheating protection and a tilt protection.

The device is not protected against water (IP20).

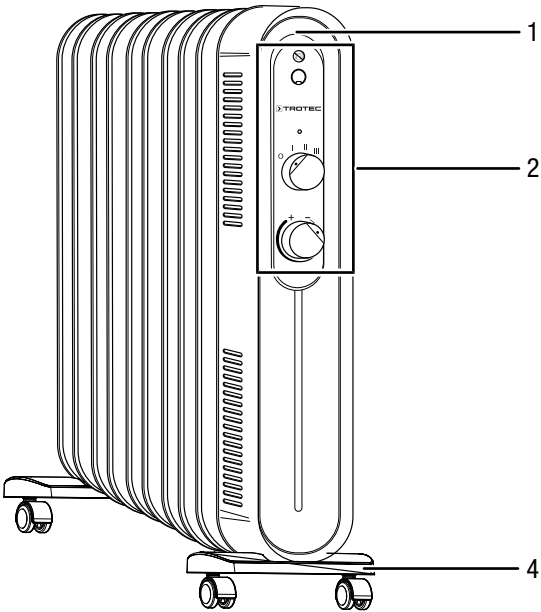
The device TRH 22 E / TRH 23 E comes with an additional turbo function. Accordingly a turbo blower with additional PTC heating element ensures the quick and effective initial room heating.

Device depiction

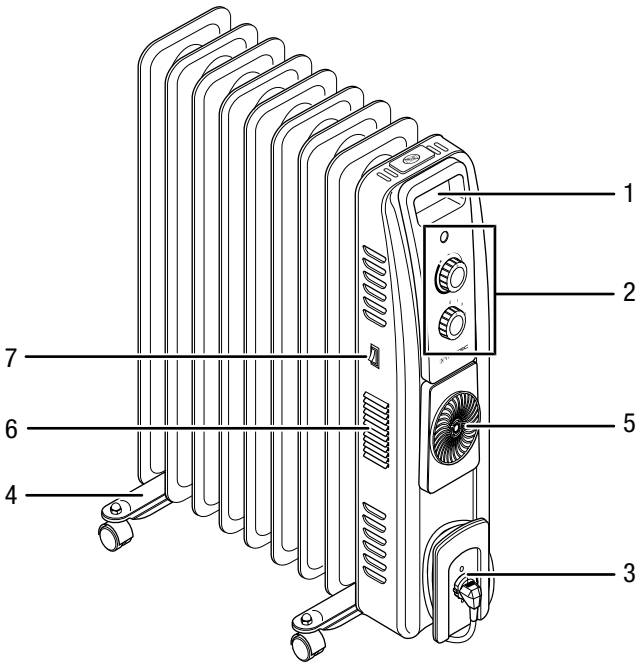
TRH 20 E / TRH 21 E



TRH 24 E



TRH 22 E / TRH 23 E



No.	Designation
1	Transport handle
2	Control panel
3	Cable winder (TRH 22 E / TRH 23 E with plug holder)
4	Foot with castors
5	Air inlet (blower)
6	Air outlet (blower)
7	Flip switch (blower)

Transport and storage

Notice

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

Note the information regarding transport and storage of the device.

Transport

To make the device easier to transport, it is fitted with wheels.

Before transporting the device, observe the following:

- Switch the device off.
- Disconnect the device from the mains by removing the mains plug from the socket. When doing so, be sure to hold the plug, not the cable.
- Do not use the power cable to drag the device.
- Allow the device to cool down sufficiently.

Storage

Before storing the device, observe the following:

- Disconnect the device from the mains by removing the mains plug from the socket. When doing so, be sure to hold the plug, not the cable.
- 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

TRH 20 E/TRH 21 E/TRH 22 E/TRH 23 E

- 1 x Oil-filled radiator
- 2 x Mounting plate for castors
- 4 x Castor
- 4 x Cap nut
- 4 x Wing nut
- 2 x U-bolt
- 1 x Cable holder
- 1 x Manual

TRH 24 E

- 1 x Oil-filled radiator
- 2 x Foot with castors
- 1 x Screw
- 1 x Manual
- 1 x Cable holder

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.

Assembly



Warning of electrical voltage

Risk of injury due to incorrect assembly!

Local or national regulations may apply for installation. We recommend to have the installation carried out by a qualified electrician.



Warning

Risk of fire due to improper installation!

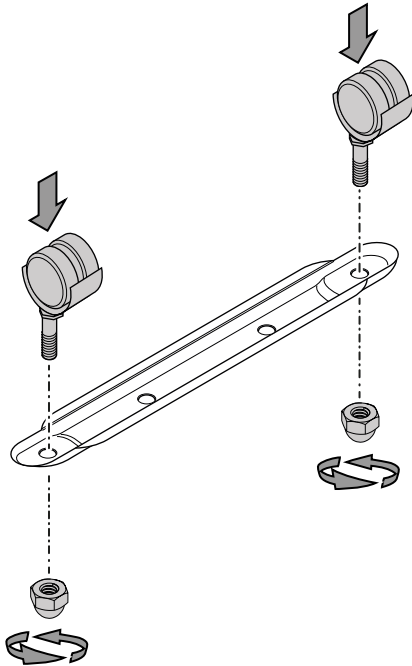
There is a risk of fire if the required minimum distances are not observed.

Observe the "Installation" section in the "Assembly and start-up" chapter and the technical data in the "Technical annex" chapter.

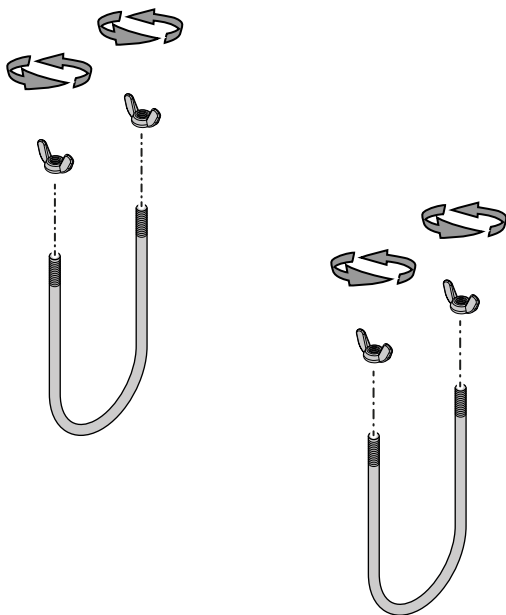
Mounting the castors (TRH 20 E/TRH 21 E/TRH 22 E/TRH 23 E)

Make sure to mount the castors before you set the device up.

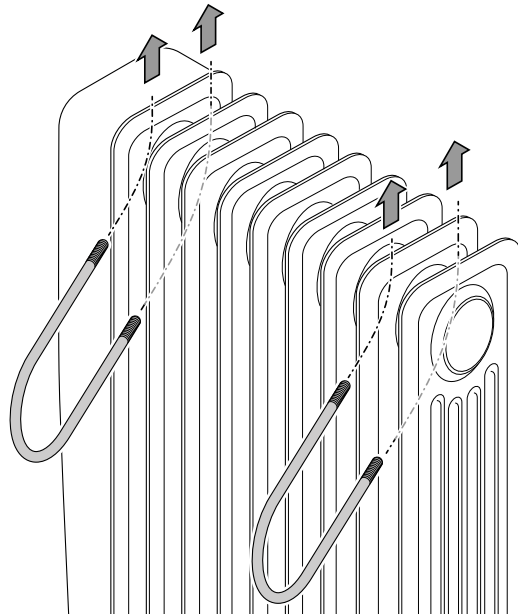
1. Place the device upside down on a scratch-proof, even surface and in a stable position.
2. Screw respectively two of each of the castors and cap nuts to one of the mounting plates.



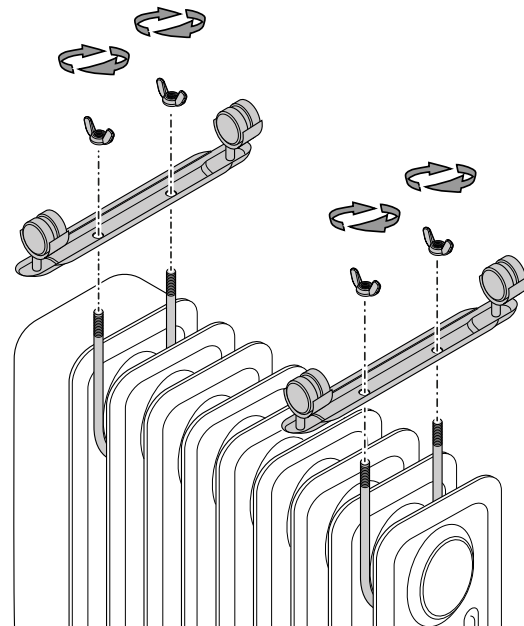
3. Detach the wing nuts from the U-bolts.



4. Position the respective U-bolt between either the first or the last two ribs at the device bottom.



5. Attach the mounting plates with the castors to the U-bolts. In doing so, observe the position of the cut-outs at one side of the mounting plates. They should be directed towards the device front (control panel).

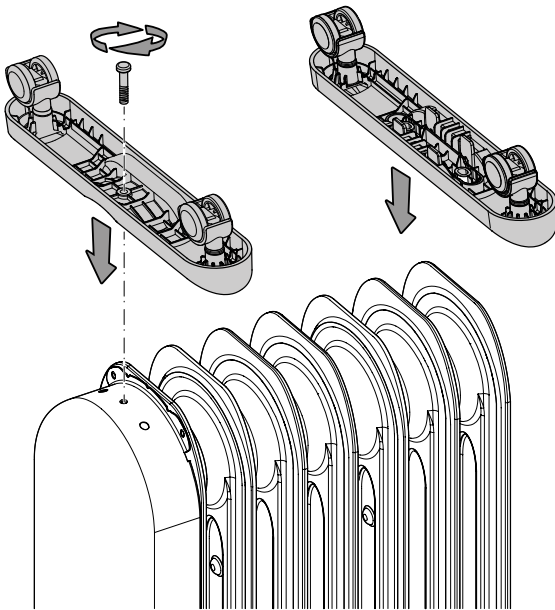


6. Bolt the mounting plates, wing nuts and U-bolts together. Ensure the tight fit of the mounting plates. They should rest evenly on the ribs to ensure the upright position of the device.
7. Turn the device over and set it down on the castors. If necessary, use a spirit level to check the correct positioning. Adjust the screw connection if required.

Mounting the feet (TRH 24 E)

The castors of the device are preassembled.

1. Place the left foot upside down on the left side of the device.
2. Fasten the left foot with a screw.
3. Place the right foot with the slots upside down on the right side of the device on the penultimate rib.
4. Close the four clips of the right foot.



⇒ Check the feet and castors for tight fit. The feet should rest evenly on the fins to ensure the upright position of the device.

5. Turn the device over and set it down on the castors. If necessary, use a spirit level to check the correct positioning. Adjust the screw connection if required.

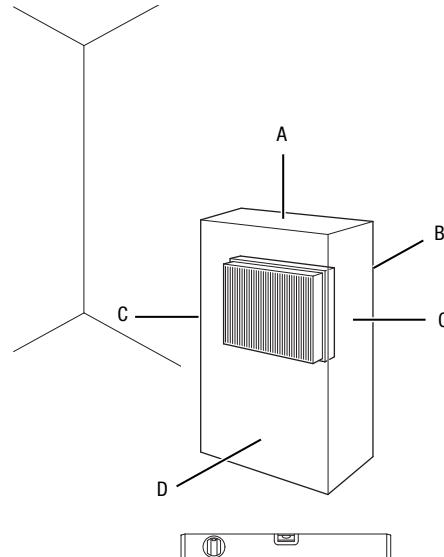
Start-up



Info

Odours may occur 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 starting the device, check the condition of the power cable. If there are doubts as to their sound condition, contact the customer service.
- The device may only be operated when fully assembled and set up in a vertical position on a stable surface. Operation on instable ground is prohibited.
- Set the device up in an upright and stable position.
- 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.
- Install and set up the device so that it is not positioned directly below or in front of a wall socket.
- Ensure that the device is protected from moisture and water and cannot come into contact with them.

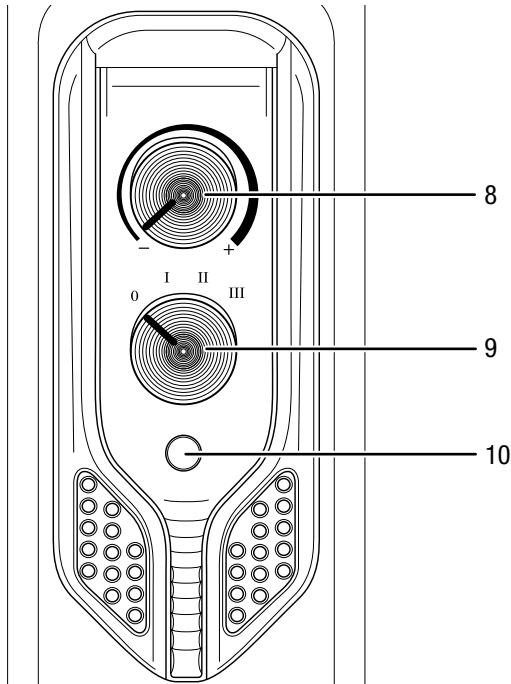
Connecting the power cable

- Connect the mains plug to a properly secured socket.
- Route the power cable behind the device. Make sure that the power cable is never routed in front of the device!

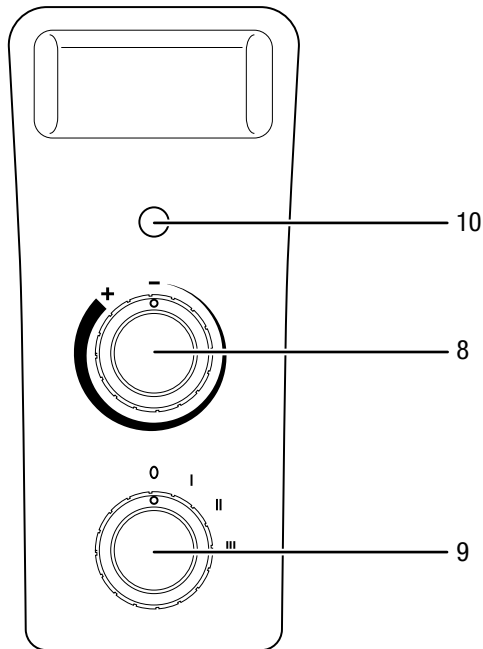
Operation

- Avoid open doors and windows.

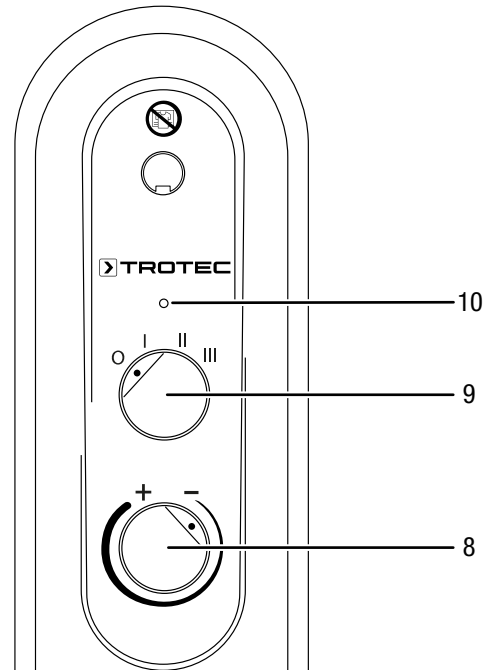
Operating elements TRH 20 E / TRH 21 E



Operating elements TRH 22 E / TRH 23 E



Operating elements TRH 24 E



No.	Designation
8	Rotary switch of the room thermostat
9	Performance level rotary switch
	TRH 20 E
	level 1: 800 W
	level 2: 1,200 W
	level 3: 2,000 W
	TRH 21 E
	level 1: 1,000 W
	level 2: 1,500 W
	level 3: 2,500 W
	TRH 22 E
	level 1: 800 W
	level 2: 1,200 W
	level 3: 2,000 W
	level 3 (performance with fan): 2,400 W
	TRH 23 E
	level 1: 1,000 W
	level 2: 1,500 W
	level 3: 2,500 W
	level 3 (performance with fan): 2,900 W
	TRH 24 E
	level 1: 1,000 W
	level 2: 1,200 W
	level 3: 2,200 W
10	Operating control lamp

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 performance level

1. Set the rotary switch of the performance level (9) to the desired level.

Setting the room thermostat

1. Select the desired temperature via the infinitely variable rotary switch of the room thermostat (8).
 - ⇒ When the room thermostat is switched on the operating control lamp (10) will be illuminated.
 - ⇒ After approx. 8 to 10 min the device will have reached the set power.

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

1. Set the rotary switch of the room thermostat (8) to the highest level.
2. As soon as the desired temperature has been reached, slowly turn the rotary switch of the room thermostat back until the operating control lamp (10) goes out.
 - ⇒ The device now automatically maintains the desired temperature level.

Automatic temperature control via the room thermostat (TRH 20 E / TRH 21 E / TRH 22 E and TRH 23 E):

- Upon reaching the operating temperature of the heating medium in performance level 2 and 3 the device reduces its power to level 1.
- When falling below the operating temperature of the heating medium, the heating will automatically switch back over to level 2 or level 3.
- When the device is set to performance level 1, the operating temperature of the heating medium will not be controlled automatically. Upon reaching the preselected room temperature, the device switches off completely.

Automatic temperature control via the room thermostat (TRH 24 E):

- Select the desired temperature via the infinitely variable rotary switch of the room thermostat (8).
The heating switches off automatically upon reaching the set temperature. If the temperature falls below the set temperature, the heating switches back on.
- Upon reaching the operating temperature of the heating medium in level 3 the device reduces its power to level 2.
- When falling below the operating temperature of the heating medium, the heating will automatically switch back over to level 3.
- When the device is set to performance level 1 or performance level 2, the operating temperature of the heating medium will not be controlled automatically. Upon reaching the preselected room temperature, the device switches off completely.

Frost monitor function

The device is equipped with a frost monitor function that prevents the room temperature from falling below the frost protection temperature. Please proceed as follows to activate the frost monitor function:

1. Set the rotary switch of the performance level (9) to level 1.
 2. Turn the rotary switch of the room thermostat (8) to a position just above -.
- ⇒ The frost monitor function is activated.

Switching on the turbo blower (TRH 22 E / TRH 23 E)

1. Set the flip switch for the blower (7) to I.
 - ⇒ The lamp at the flip switch will be illuminated.
 - ⇒ The blower will start to run when the device produces heat.
 - ⇒ The blower will turn off when the room thermostat switches off the heating.

Shutdown



Warning of electrical voltage

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

- Set both rotary switches (8, 9) to position 0 or -.
- Disconnect the device from the mains by removing the mains plug from the socket. When doing so, be sure to hold the plug, not the cable.
- Allow the device to cool down completely.
- If required, 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 the manufacturer.

Notice

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

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 makes noises after switch-on:

- The heating medium oil expands due to heating. This is what causes the noise. It is a perfectly normal process. No measures are required.

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.
- 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.
- Check whether the overheating protection has tripped (see chapter Safety).

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

- 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 (TRH 22 E / TRH 23 E only):

- Check whether the device is switched on.
- Check the power connection.
- Check the power cable and mains plug for damages.
- Check the room temperature. When the room thermostat switches off, the blower turns off as well.
- The fan motor might be defective. Have a defective fan motor replaced by a specialist electrical company.

The air current is reduced (TRH 22 E / TRH 23 E only):

- 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 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 the manufacturer 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.
- Disconnect the device from the mains by removing the mains plug from the socket. When doing so, be sure to hold the plug, not the cable.
- 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 the manufacturer.

Notice

The device is filled with the heating medium oil. Tasks which require the oil tank to be opened must only be carried out by Trotec. In case of oil leakage please contact the customer service.

Cleaning the housing



Warning of electrical voltage

Never immerse the device in water!

Clean the housing with a soft, slightly damp and lint-free cloth. Ensure 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.

Technical annex

Technical data

Parameter	Value				
Model	TRH 20 E	TRH 21 E	TRH 22 E	TRH 23 E	TRH 24 E
Power					
level 1:	800 W	1000 W	800 W	1000 W	1000 W
level 2:	1200 W	1500 W	1200 W	1500 W	1200 W
level 3:	2000 W	2500 W	2000 W	2500 W	2200 W
(performance with fan):	-	-	2400 W	2900 W	-
Mains connection	220 – 240 V / 50 – 60 Hz	220 – 240 V / 50 – 60 Hz	220 – 240 V / 50 – 60 Hz	220 – 240 V / 50 – 60 Hz	220 – 240 V / 50 Hz
Number of heating fins	9	11	9	11	11
Nominal current consumption	8.7 A	10.9 A	10.4 A	12.6 A	9.5 A
Fusing	16 A	16 A	16 A	16 A	16 A
Plug type	VDE plug CEE 7/7	VDE plug CEE 7/7	VDE plug CEE 7/7	VDE plug CEE 7/7	VDE plug CEE 7/7
Cable length	1.4 m	1.4 m	1.4 m	1.4 m	1.8 m
Type of protection	IP20	IP20	IP20	IP20	IP20
Dimensions (depth x width x height)	390 x 235 x 558 mm	480 x 235 x 548 mm	420 x 240 x 650 mm	490 x 235 x 635 mm	442 x 240 x 639 mm
Minimum distance to walls and other objects					
top (A):	100 cm	100 cm	100 cm	100 cm	100 cm
rear (B):	100 cm	100 cm	100 cm	100 cm	100 cm
sides (C):	100 cm	100 cm	100 cm	100 cm	100 cm
front (D):	100 cm	100 cm	100 cm	100 cm	100 cm
Weight	7 kg	8 kg	9 kg	10 kg	9 kg

Information requirements for electrical local space heaters

TRH 20 E, TRH 21 E, TRH 22 E, TRH 23 E

Parameter	Value / item			
Model	TRH 20 E	TRH 21 E	TRH 22 E	TRH 23 E
Heat output				
Nominal heat output P_{nom}	2.0 kW	2.5 kW	2.4 kW	2.9 kW
Minimum heat output (indicative) P_{min}	0.8 kW	1.0 kW	0.4 kW	0.4 kW
Maximum continuous heat output $P_{max,c}$	2.0 kW	2.5 kW	2.4 kW	2.9 kW
Power consumption				
In the Off state P_0	0.0 W	0.0 W	0.0 W	0.0 W
In standby mode P_{sm}	n/a	n/a	n/a	n/a
In idle condition P_{idle}	n/a	n/a	n/a	n/a
In networked standby operation P_{nsm}	n/a	n/a	n/a	n/a
Standby operation with information or status indication	NO	NO	NO	NO
Room heating annual efficiency in active operation $\eta_{s,an}$	85.0 %	85.0 %	85.0 %	85.0 %
Type of heat output / room temperature controller				
Single-stage heat output, no room temperature control	NO	NO	NO	NO
Two or more manual stages, no room temperature control	NO	NO	NO	NO
Room temperature controller with mechanic thermostat	NO	YES	YES	YES
With electronic room temperature controller	YES	NO	NO	NO
Electronic room temperature controller with time of day control	NO	NO	NO	NO
Electronic room temperature controller with weekday control	NO	NO	NO	NO
Other control options				
Room temperature controller with presence detection	NO	NO	NO	NO
Room temperature controller with open window detection	NO	NO	NO	NO
Remote control option	NO	NO	NO	NO
Adaptive control of heating start	NO	NO	NO	NO
Operating time limitation	NO	NO	NO	NO
Black bulb sensor	NO	NO	NO	NO
Self-learning function	NO	NO	NO	NO
Control accuracy	NO	NO	NO	NO
Contact details	Trotec GmbH Grebbener Straße 7 52525 Heinsberg			

N/A = not applicable

TRH 24 E

Parameter	Value / item
Model	TRH 24 E
Heat output	
Nominal heat output P_{nom}	1.5 kW
Minimum heat output (indicative) P_{min}	1.0 kW
Maximum continuous heat output $P_{max,c}$	1.5 kW
Auxiliary electricity consumption	
At nominal heat output el_{max}	n/a
At minimum heat output el_{min}	n/a
In standby mode el_{sb}	n/a
Type of heat input	
Manual heat charge control, with integrated thermostat	n/a
Manual heat charge control with room and/or outdoor temperature feedback	n/a
Electronic heat charge control with room and/or outdoor temperature feedback	n/a
Fan assisted heat output	n/a
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 52525 Heinsberg

n/a: 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 wheeled bin indicates that this device and any associated components must not be disposed of with household waste at the end of their life, in accordance with the Waste Electrical and Electronic Equipment Directive (2012/19/EU) and national laws.

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.

Heating medium oil

The heating medium oil must be drained from the device and collected.

The heating medium oil is to be disposed of according to the national regulations.

Only for United Kingdom

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

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