

EN

INSTRUCTIONS FAN HEATER



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

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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:



TFH 19 E



<https://hub.trotec.com/?id=41613>

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!
- 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.
- 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.
- Do not use the device together with a programming device, a timer, a separate remote control system or any other device that automatically switches the heating device on, as there is a risk of fire if the heating device is covered or incorrectly positioned.

Intended use

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

The device 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.

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.
- Do not use the heating device in immediate vicinity of swimming pools, bathtubs and showers.
- 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!
- 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
	<p>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.</p> <p>In order to avoid overheating and fire hazards, the heater must not be covered.</p>

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

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!

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).

Once the safety thermostat has switched itself on, the heating will be turned off. The fan keeps running.

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

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.

Information about the device

Device description

The electric heater TFH 19 E serves to generate and distribute warm air, e.g. in interior spaces.

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

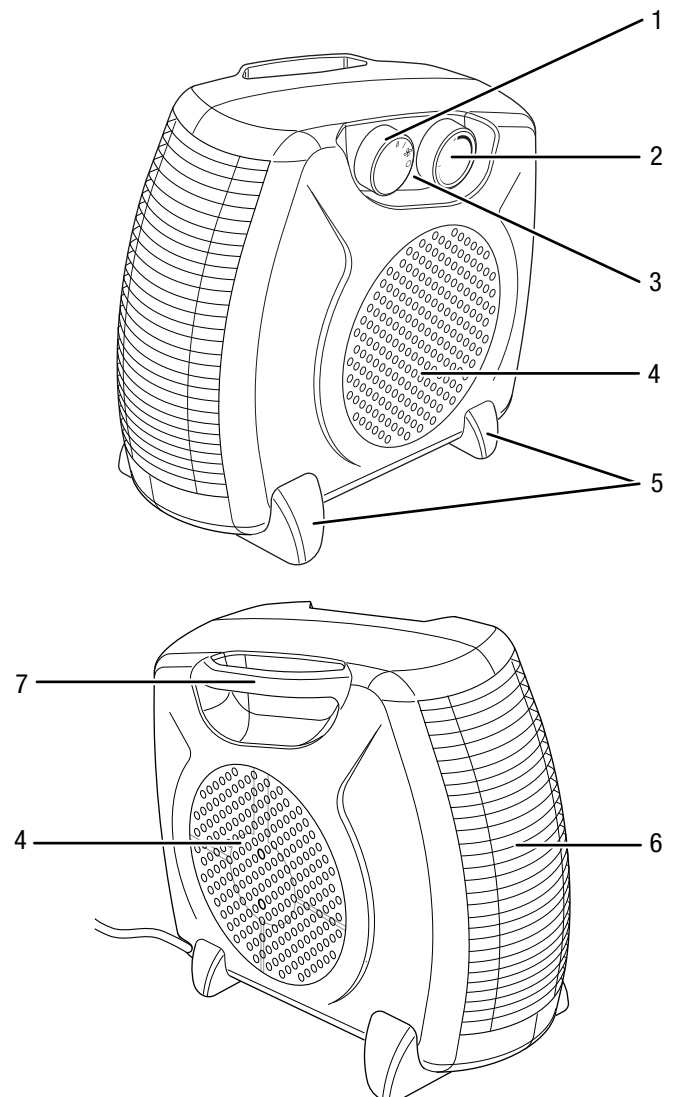
The device is equipped with an integrated thermostat and so generates a constant flow of warm air.

Fan operation without heating function is also possible.

The construction of the device allows for operation both in a vertical and horizontal position.

The device is not protected against water (IPX0).

Device depiction



No.	Designation
1	Function selector switch for ventilation and heating levels
2	Rotary switch room thermostat
3	Operating light
4	Air inlet
5	Foot
6	Air outlet
7	Transport handle/foot

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

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

- 1 x Fan heater
- 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.

Assembly

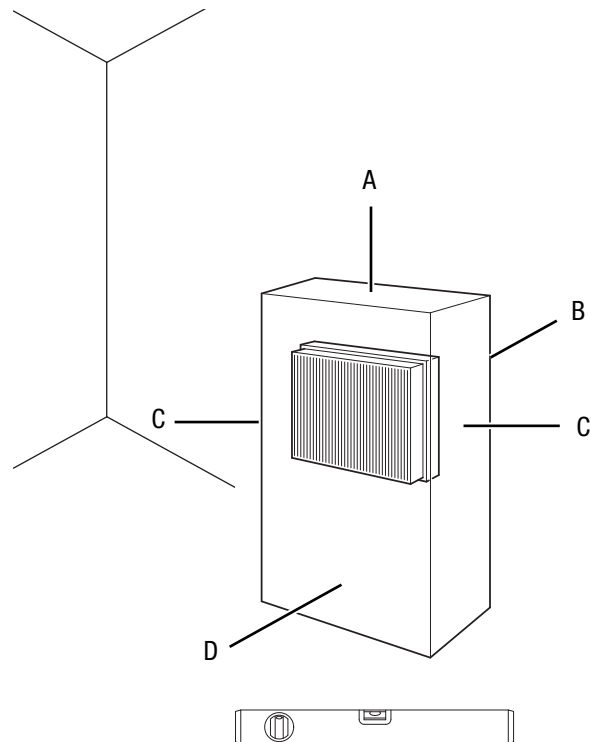
Start-up



Info

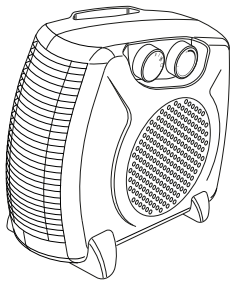
Odours may occur upon initial start-up or after a longer period of non-use.

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

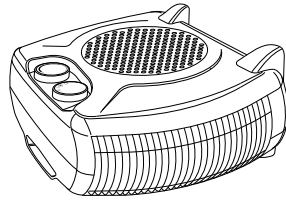


- Before starting the device, check the condition of the power cable. If there are doubts as to their sound condition, contact the customer service.
- Position the device on even, stable and heat-insensitive ground in a way to prevent it from tipping over.
- Do not create tripping hazards when laying 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.
- Put up the device in a way that no person, animal or plant is positioned in its direct flow path upon switch-on.
- Ensure that the device is protected from moisture and water and cannot come into contact with them.

- The device can be variably positioned in a way to allow an air discharge at an angle of 0° or 90°.



90°



0°

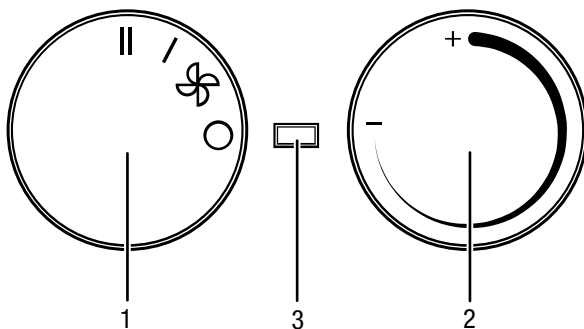
Connecting the power cable

- 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.

Control panel



No.	Designation
1	Function selector switch for ventilation and heating levels 0: OFF ☪: cold air / ventilation I: heating level 1 (1000 W) II: heating level 2 (2000 W)
2	Rotary switch room thermostat
3	Operating light

Switching the device on

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

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.

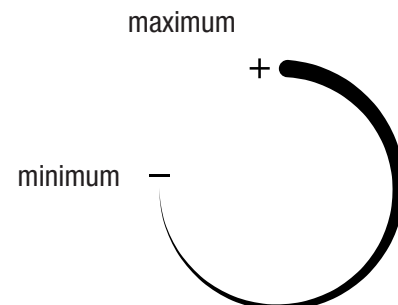
- Set the function selector switch (1) to I.
⇒ The device operates at heating level 1.
- In order to achieve the maximum heating performance, set the function selector switch (1) to position II.
⇒ The device operates at heating level 2.

Cold air operation

If you want to use the device as fan, set the function selector switch (1) to the fan stage ☪.

Setting the room thermostat

- Select the desired room temperature via the stepless rotary switch (2) of the room thermostat.
⇒ The operating light (3) lights up as soon as the room temperature is lower than the temperature set at the room thermostat.



Please proceed as follows to achieve the ideal thermostat setting:

- Set the thermostat control to maximum.
- 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 exceeding the set value, both the heating and the ventilation will be switched off.
- When falling below the set value, both the heating and the ventilation will automatically be switched back on.



Info


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

Shutdown



Warning of electrical voltage

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

- Set the rotary switch (2) of the room thermostat to the highest level or make sure that the temperature is set higher than the current room temperature.
- Turn the function selector switch (1) 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 (1) to the 0 position.
- 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 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.

- 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.

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

- 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 is not running:

- 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 vibrates:

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

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.

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	TFH 19 E
Heating capacity	level 1: Ventilation only level 2: 1000 W level 3: 2000 W
Air discharge velocity	2.8 m/s
Operating range	-15 °C to +85 °C
Mains connection	220-240 V, 50/60 Hz
Max. power consumption	2000 W
Nominal current consumption	8.7 A
Plug type	CEE 7/17
Cable length	1.2 m
Protection class	II / 
Type of protection	IPX0
Overheating protection	85 °C
Weight	1.0 kg
Dimensions (length x width x height)	240 x 120 x 255 (mm)
Minimum distance to walls or other objects	A: top: 50 cm B: rear: 50 cm C: side: 50 cm D: front: 120 cm

Information requirements for electrical local space heaters

Parameter	Value / item
Model	TFH 19 E
Heat output	
Nominal heat output P_{nom}	2.0 kW
Minimum heat output (indicative) P_{min}	1.0 kW
Maximum continuous heat output $P_{max,c}$	2.0 kW
Power consumption	
In the Off state P_0	0.0 kW
In standby mode P_{sm}	n/a
In idle condition P_{idle}	0.0 kW
In networked standby operation P_{nsm}	n/a
Standby operation with information or status indication	NO
Room heating annual efficiency in active operation $\eta_{ls,an}$	85 %
Type of heat output / room temperature controller	
Single-stage heat output, no room temperature control	NO
Two or more manual stages, no room temperature control	NO
Room temperature controller with mechanic thermostat	YES
With electronic room temperature controller	NO
Electronic room temperature controller with time of day control	NO
Electronic room temperature controller with weekday control	NO
Other control options	
Room temperature controller with presence detection	NO
Room temperature controller with open window detection	NO
Remote control option	NO
Adaptive control of heating start	NO
Operating time limitation	NO
Black bulb sensor	NO
Self-learning function	NO
Control accuracy	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.

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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