TIH 300 ST / TIH 500 ST / TIH 700 ST / TIH 900 ST

EN

INSTRUCTIONS
INFRARED HEATING PANEL

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

TROTEC

TRT-BA-TIH300ST-TIH500ST-TIH700ST-TIH900ST-TC25TTRT10056-002-EN

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Information on the use of these instructions

Symbols

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

Warning
This symbol indicates a fire hazard.

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.

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:

TIH 300 ST

https://hub.trotec.com/?id=47694

TIH 500 ST

https://hub.trotec.com/?id=47695

TIH 700 ST

https://hub.trotec.com/?id=47764

TIH 900 ST

https://hub.trotec.com/?id=47696

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 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).
- Never drill into the heating panel.
- Keep the safety distance specified in the technical data between the device's radiator side and all combustible materials such as textiles, curtains, beds and sofas, but at least 1 m.
- Do not place the device on combustible ground.
- Do not transport the device during operation.
- 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.
- Do not use the device if it has been dropped or if it shows visible signs of damage.
- Use batteries of type AAA.

- Do not insert rechargeable batteries into the remote control.
- Never charge batteries that cannot be recharged.
- Different types of batteries and new and used batteries must not be used together.
- Insert the batteries into the battery compartment according to the correct polarity.
- Remove discharged batteries. Batteries contain materials hazardous to the environment. Dispose of the batteries according to the national regulations.
- Remove the batteries from the remote control if you will not be using the device for a longer period of time.
- Never short-circuit the terminals of batteries!
- Do not swallow batteries! If a battery is swallowed, it can cause severe internal burns within 2 hours! These burns can lead to death!
- If you think batteries might have been swallowed or otherwise entered the body, seek medical attention immediately!
- Keep new and used batteries and an open battery compartment away from children.
- If the battery compartment does not close securely, stop using the product via the remote control.

Intended use

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

Only use the device for heating surfaces indoors.

The device is suitable for wall mounting. It may also be mounted on wooden walls if a minimum distance of 1 cm is maintained or a fireproof intermediate panel (e.g. plasterboard) is used.

Intended use comprises:

- heating surfaces
  - in living spaces,
  - in storage facilities,
  - in salesrooms,
  - in construction areas,
  - in containers,
  - in bathrooms,
  - in wet rooms in compliance with the local or national regulations for the operation of electrical equipment in wet rooms.

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

Reasonably foreseeable misuse

- Do not use outdoors.
- Do not place the device on wet or flooded ground.
- Do not place any objects, e.g. clothing, on the device.
- Do not use the device for heating in vehicles.
- 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.
- The device may not be used as a heating device for babies / children or animals.
- Do not use the heating device in immediate vicinity of swimming pools, bathtubs and showers.
- Never immerse the device in water.
- Do not make any unauthorised modifications, alterations or structural changes to the device.

Personnel qualification

People who use this device must:

- 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
	The symbol on the device indicates that the instructions must be observed.
	This symbol located on the device indicates that it is prohibited to place objects (e.g. towels, clothes, etc.) above or directly in front of the device. In order to avoid overheating and fire hazards, the appliance must not be covered!
	This symbol located on the device indicates that it is prohibited to spray the device.
	This symbol located on the device indicates dangers to the life and health of persons due to hot surface.

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 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 of hot surface
The surface of the device warms up during operation. Do not touch the device surface during operation and observe the minimum distance!

Warning
A falling device can cause injuries! Always transport and assemble the device with the help of other persons. Never stand below the device when it is suspended. Ensure adequate stability of the device's wall fixing.

Warning
Risk of injury due to infrared radiation!
Do not stay in the device's immediate vicinity for too long. Do not look directly into the device for too long. Observe the minimum distances.

Warning
Improper installation or mounting entails a risk of fire.

Warning
There is a risk of fire by covering the device. Ensure that the device is standing freely at all times and that it is not covered.

Behaviour in the event of an emergency

1. 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.
2. Do not reconnect a defective device to the mains.

Information about the device

Device description

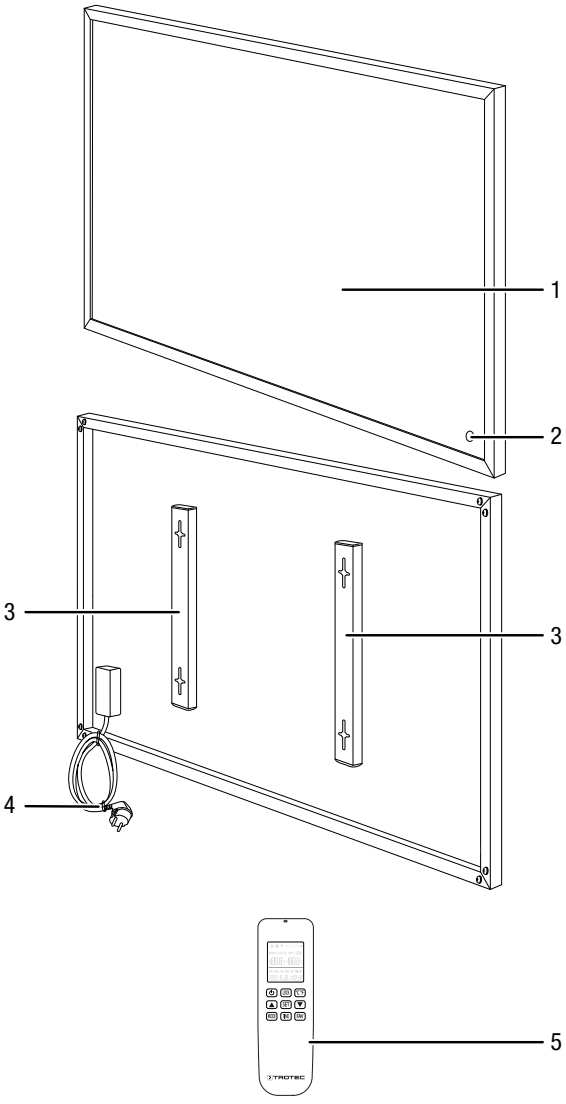
The device is used to quickly generate instant heat.

The device is based on the functional principle of heat generation by infrared radiation. Persons or objects are heated directly.

The heating panels have an integrated thermostat and ensure even heat distribution in the room.

The device is protected against splash water on all sides (IP54).

Device depiction



No.	Designation
1	Heating element
2	Operating control lamp
3	Wall attachment
4	Power cable
5	Remote control

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

Observe the following instructions for transport:

- The device has cooled down sufficiently.
- The device is disconnected from the mains and the mains plug has been disconnected.

Storage

Observe the following instructions for storage:

- 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.
- Remove the batteries from the remote control.

Assembly and start-up

Scope of delivery

- 1 x Infrared heating panel
- 4 x Screw
- 4 x Wall plug
- 1 x Remote control (without batteries)
- 1 x Manual

Unpacking the device

Warning

There is a danger of suffocation for children due to packaging material! Keep packaging films and parts away from children. There is a risk of death due to suffocation.

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, especially for wet rooms. We recommend to have the installation carried out by a qualified electrician.

Upon delivery the device is already preassembled. The optional feet still need to be mounted.

Wall mounting

Warning of electrical voltage

Risk of injury due to incorrect assembly!
Local or national regulations may apply for installation, especially for wet rooms. We recommend to have the installation carried out by a qualified electrician.

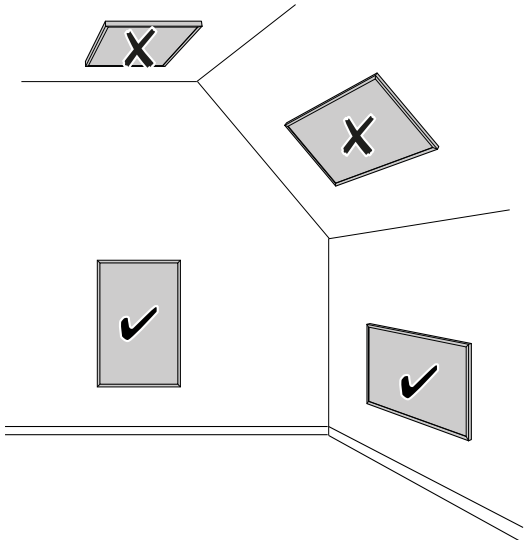
For wall mounting, observe the minimum distances of the device to walls and objects according to the technical data (chapter Technical annex).

Warning

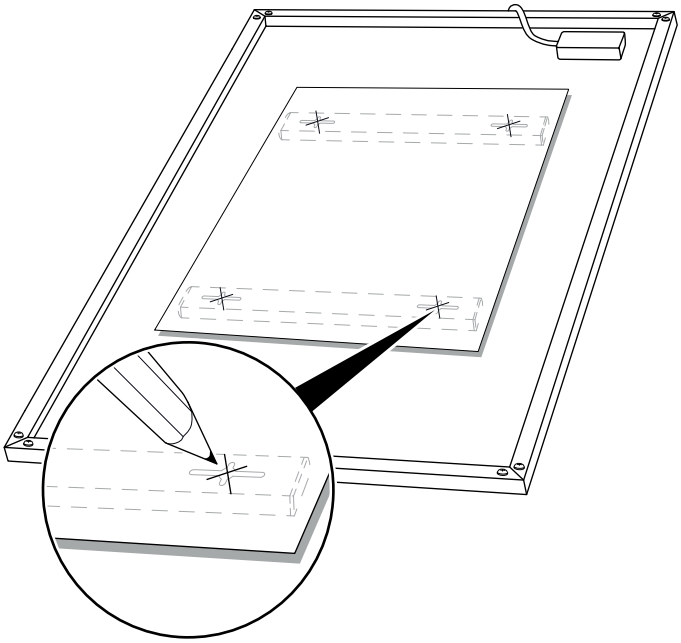
Fire hazard!

- Do not install the device directly behind a door.
- Never install the device on a wooden wall.
- Never install the device in a way that it radiates directly onto walls or other objects.

- Only install the device as shown below:

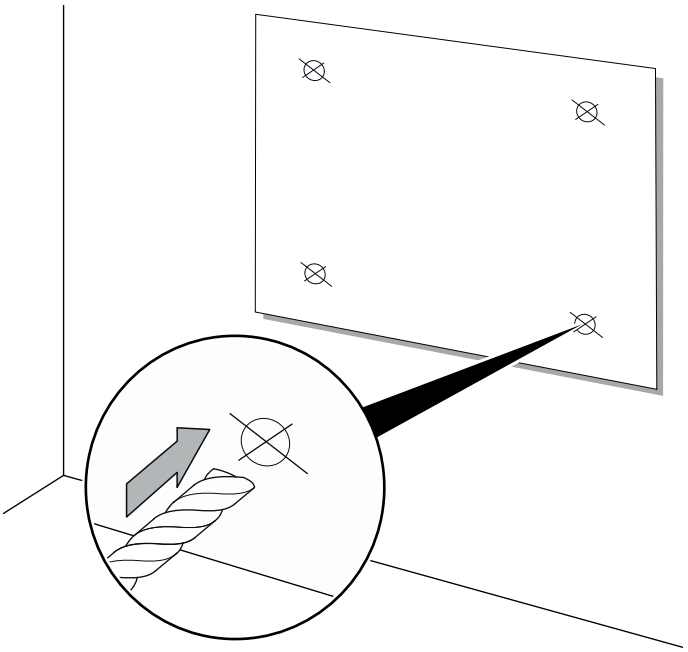


1. Spread out a suitable template over the back of the device and mark the positions for the bore holes.

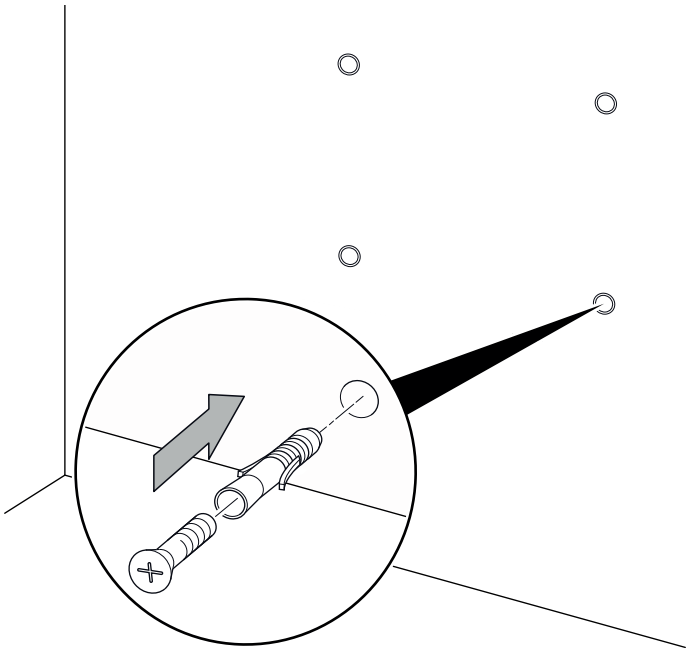


2. Attach the template to the wall using adhesive tape or similar.

3. Drill the holes into the wall at the positions marked on the template.

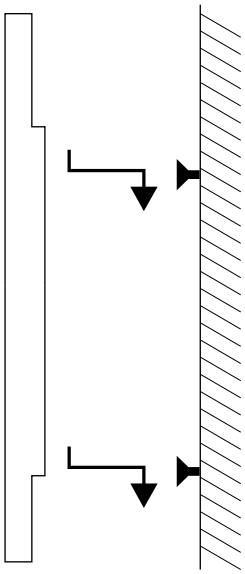


4. Remove the template from the wall.
5. Insert suitable wall plugs into the drill holes.

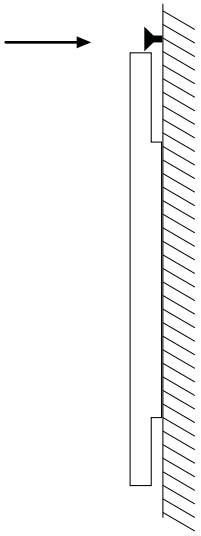


6. Insert the screws into the wall plugs and fasten the screws.
   ⇨ The screws should protrude approx. 1 cm from the wall plugs.

7. Hang the device in.



8. Drill another hole near the top of the device. Then drive in a screw to prevent the device from falling off the wall.
   ⇨ The screw should protrude from the wall plug to a point that renders it impossible to take off the device without removing the screw first.



Mounting the feet – for TIH 300 ST (optional)

The feet for the device TIH 300 ST can be optionally mounted on the lower frame of the device in order to position the device in the room.

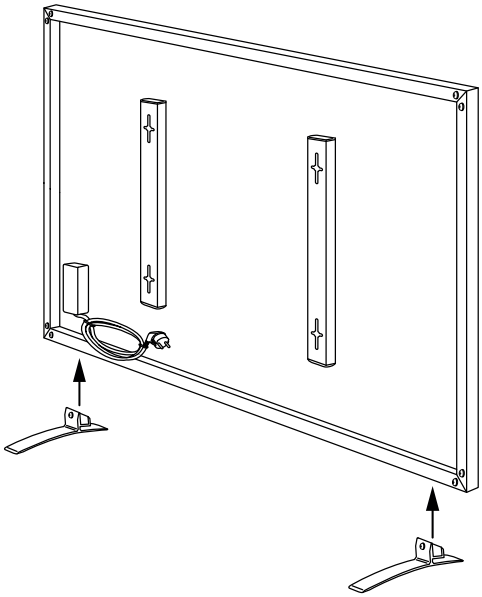
The accessories for the feet are not included in the scope of delivery.

When positioning the device, observe the minimum distances of the device to walls and objects according to the technical data (chapter Technical annex).

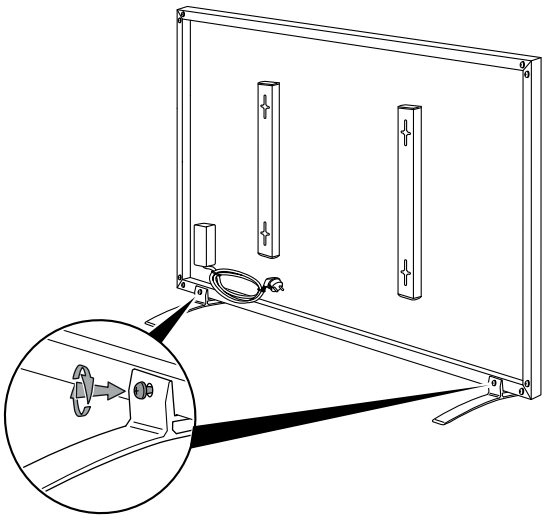
For assembling the feet, please proceed as follows:

✓ Work together with another person who helps you to lift the device during assembly of the feet.

1. Hold the feet available.
2. Lift the device with the help of another person.



3. Place the device on the feet.
4. The second person keeps on holding the device.
5. Screw down the feet.



6. Check whether the device is standing in a stable and upright position.

Mounting the feet – for TIH 500 ST, TIH 700 ST and TIH 900 ST (optional)

The feet for the devices TIH 500 ST, TIH 700 ST and TIH 900 ST can be optionally mounted on the lateral frame of the device in order to position the device in the room.

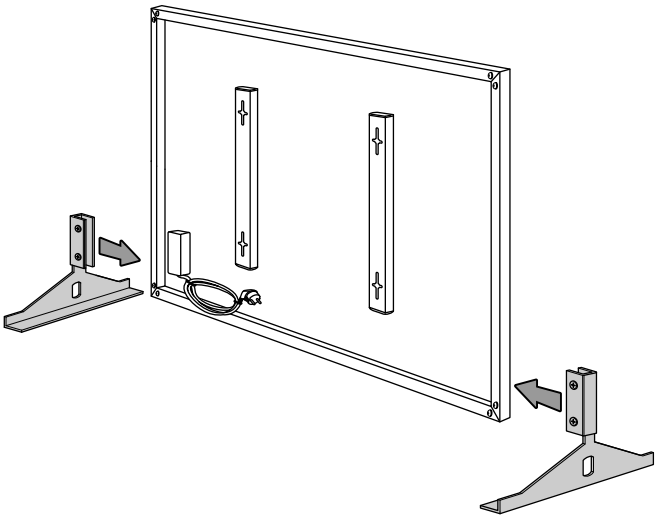
The accessories for the feet are not included in the scope of delivery.

When positioning the device, observe the minimum distances of the device to walls and objects according to the technical data (chapter Technical annex).

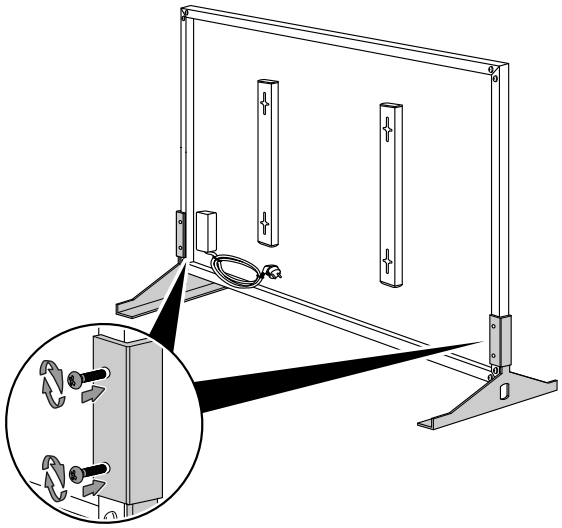
For assembling the feet, please proceed as follows:

✓ Work together with another person who helps you to lift the device during assembly of the feet.

1. Hold the feet available.
2. Set the device up in an upright position. The second person holds the device.
3. Place the feet on the side of the frame.



4. The second person keeps on holding the device.
5. Screw the feet to the frame.



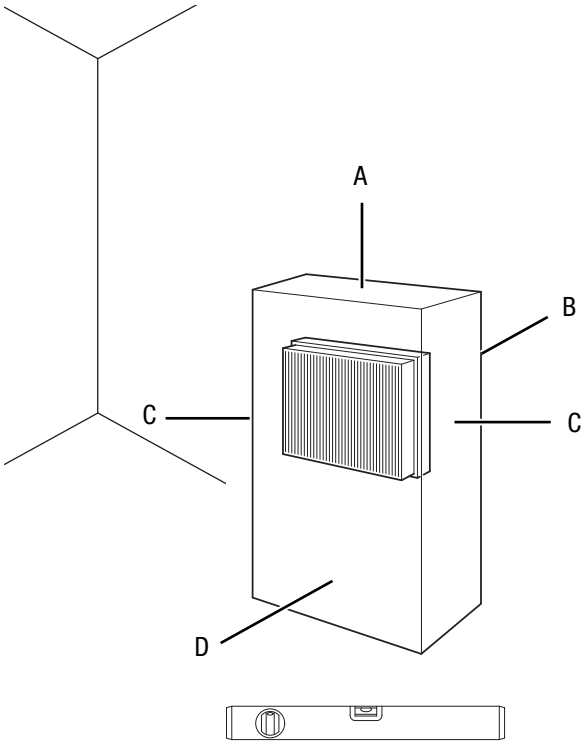
6. Check whether the device is standing in a stable and upright position.

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.
- Set the device up in an upright and stable position or suspend the device horizontally.
- 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 there are no curtains or similar objects in the immediate vicinity.

Inserting batteries into the remote control

Warning of electrical voltage
Do not touch the battery compartment with wet or damp hands.

Notice
Do not use rechargeable batteries!

Please proceed as follows to insert or exchange the batteries:

1. Remove the battery cover from the rear of the remote control.
2. Insert two batteries into the battery compartment according to the correct polarity.
3. Slide the battery cover back onto the remote control.

Connecting the power cable

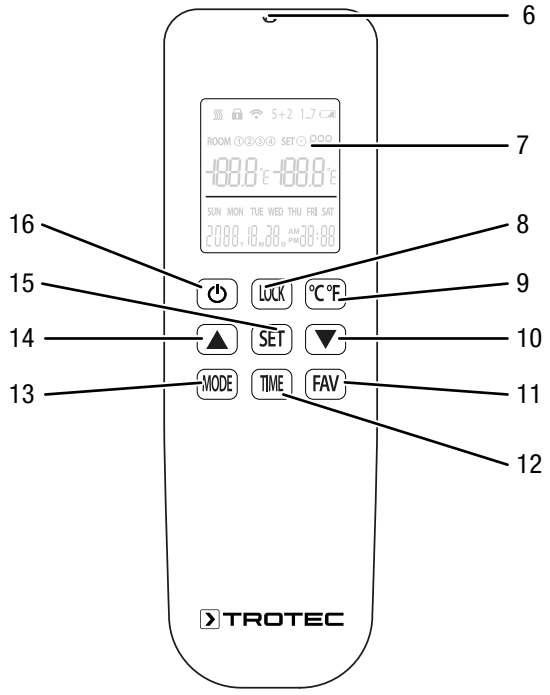
- Connect the mains plug to a properly secured socket.

Operation

Info
Avoid open doors and windows.

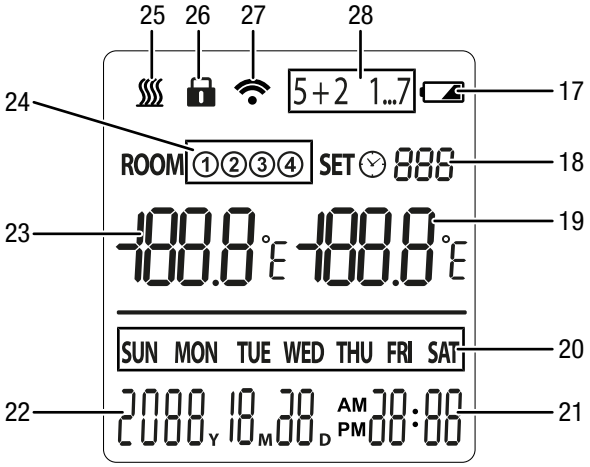
Operating elements

All settings of the device are made using the remote control included in the scope of delivery.



No.	Designation	Meaning
6	Remote control transmitter/ receiver	For infrared transmission to the device
7	Display	Indication of different device functions
8	*LOCK* button	Enabling or disabling key lock
9	*°C °F* button	Changing between °C/Celsius and °F/Fahrenheit
10	*Decrease value* button	Decreasing the room temperature Decreasing the date setting value Setting the number of minutes for programming
11	*FAV* button	Setting the standard temperature
12	*TIME* button	Setting the date and time
13	*MODE* button	Selecting the operating mode: manual mode, mode 5+2 or mode 1–7
14	*Increase value* button	Increasing the room temperature Increasing the date setting value Setting the number of hours for programming
15	*SET* button	Programming heating intervals, confirming settings
16	*On/Standby* button	Switching the device off or activating standby mode

Display



No.	Designation	Meaning
17	*Battery* indication	Indication of the battery charge status Flashes when the battery level is low
18	*Heating programme on/off* indication	Indicates whether the time for the start or end of the heating interval is being set during heating programming
19	*Desired room temperature* indication	Indicates the set desired room temperature
20	*MON TUE WED THU FRI SAT SUN* indication	Indicate the days for heating programming MON: Monday TUE: Tuesday WED: Wednesday THU: Thursday FRI: Friday SAT: Saturday SUN: Sunday
21	*Time* indication	Indicates the time for heating programming
22	*Date* indication	Indicates the date for heating programming Format: YYYY-MM-DD
23	*Room temperature* indication	Indicates the current room temperature Is also displayed when the device is in standby mode
24	*Heating interval* indication	Indicates the heating interval for heating programming
25	*Heating* indication	Illuminated when the device is heating
26	*Key lock* indication	Illuminated when the key lock is enabled
27	*Connection* indication	Illuminated when the remote control is paired with the device
28	*Heating programme* indication	Indicates the active heating programme

Switching the device on

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

1. Press the *ON/OFF* button (16).
   ⇨ A beep is emitted.
   ⇨ The operating control lamp (2) is illuminated.

Info
In standby mode, the device memorises the room temperature set before.

Pairing the remote control with the device

Please proceed as follows to pair the remote control with the device:

1. Switch the device on.
2. Within one minute after switch-on, press the buttons *°C °F* (9) and *MODE* (13) simultaneously for 3 seconds.
   ⇨ A beep is emitted.
   ⇨ The remote control is paired with the device.

Info
Before pairing, switch off any other devices that are not to be paired with the remote control.

The temperature sensor for the device is located at the top of the remote control. Do not cover the remote control when storing it.

Setting the date and time

Please proceed as follows to set the date and time:

1. Press the *TIME* button (12) until the first four digits of the *Date* indication (22) flash.
2. Press the *Increase value* (14) and *Decrease value* (10) buttons to set the year.
   ⇨ The year is set.
3. Press the *TIME* button (12) to save the year.
4. Repeat steps 1 to 3 to set the month, day and time.

Info
The date and time must be set again when the batteries in the remote control are replaced. The heating programmes remain stored.

Setting the desired room temperature

You can set the desired room temperature at any time. Setting is possible in the range between 5 °C and 35 °C. The device is set to 19 °C by default. Please proceed as follows to set the desired room temperature:

1. Switch the device on.
2. Press the *Increase value* (14) and *Decrease value* (10) buttons to set the desired room temperature.
   ⇨ The *Heating* indication (25) is illuminated.
   ⇨ The operating control lamp (2) is illuminated.

Info

The desired room temperature should be higher than the current room temperature.
If the set temperature is lower than the room temperature, the thermostat is switched off. The operating control lamp (2) is off.

Weekly schedule

Two different heating programmes can be programmed for heating. The default settings for the heating programmes are as follows:

Info

When programming, make sure that the times of the heating intervals do not overlap.

Info

If you do not press any button within 8 seconds in programming mode, the remote control will return to the start screen.

Heating programme	Monday – Friday (time)	Temperature (°C)
5+2	00:00 – 06:30	17
	06:30 – 08:45	19
	08:45 – 17:00	17
	17:00 – 22:30	19
1–7	06:30 – 17:00	17
	17:00 – 22:30	19

Heating programme	Saturday – Sunday (time)	Temperature (°C)
5+2	00:00 – 08:00	17
	08:00 – 14:00	19
	14:00 – 17:30	17
	17:30 – 23:15	19
1–7	08:00 – 14:00	19
	14:00 – 23:15	19

When the device is heating in a heating programme, it switches on and off automatically. The device can still be switched on and off manually during this time. As soon as the next heating interval begins, the device will automatically restart with the settings for the new heating interval.

Programming the heating programme 5+2

In the 5+2 heating programme, four heating intervals can be programmed for Monday to Friday and for Saturday and Sunday respectively. Please proceed as follows to programme the heating intervals:

✓ Date and time have been set correctly.

1. Press the *MODE* button (13) until the *5+2* indication (28) is illuminated.
2. Press the *SET* button (15) to start programming.
   ⇨ The indications *ON/OFF* (18) and *Time* (21) flash.
   ⇨ The *Weekdays* indications (20) are illuminated.
3. Press and hold the *SET* button (15).
   ⇨ The indication ① (24) is illuminated.
   ⇨ The indications *MON TUE WED THU FRI* (20) are illuminated.
   ⇨ The indications *ON* (18) and *Time* (21) flash.
4. Press the *Increase value* button (14) to set the hours.
5. Press the *Decrease value* button (10) to set the minutes.
   ⇨ The start time for heating interval 1 is set.
6. Press the *SET* button (15).
   ⇨ The *OFF* indication (18) flashes.
7. Press the *Increase value* button (14) to set the hours.
8. Press the *Decrease value* button (10) to set the minutes.
   ⇨ The end time for heating interval 1 is set.
9. Press the *SET* button (15).
   ⇨ The *Desired room temperature* indication (19) flashes.
10. Press the *Increase value* (14) and *Decrease value* (10) buttons to set the temperature.
    ⇨ The temperature for heating interval 1 is set.
11. Press the *SET* button (15) and repeat steps 3 to 10 to set heating intervals 2 to 4.
    ⇨ The heating intervals 1 to 4 are programmed.
12. Press the *SET* button (15).
    ⇨ The *SAT* and *SUN* indications (20) are illuminated.
13. Repeat steps 3 to 11 to set the heating programme for the weekend.

Info

Press the *FAV* button (11) to select the set standard temperature.

Programming the heating programme 1–7

In the 1–7 heating programme, two heating intervals can be programmed for each individual day. Please proceed as follows to programme the heating intervals:

✓ Date and time have been set correctly.

1. Press the *MODE* button (13) until the *1–7* indication (28) is illuminated.
2. Press the *SET* button (15) to start programming.
   ⇨ The indications *ON/OFF* (18) and *Time* (21) flash.
   ⇨ The *Weekdays* indications (20) are illuminated.
3. Press and hold the *SET* button (15).
   ⇨ The indication ① (24) is illuminated.
   ⇨ The indications *MON TUE WED THU FRI* (20) are illuminated.
   ⇨ The indications *ON* (18) and *Time* (21) flash.
4. Press the *Increase value* button (14) to set the hours.
5. Press the *Decrease value* button (10) to set the minutes.
   ⇨ The start time for heating interval 1 on Monday is set.
6. Press the *SET* button (15).
   ⇨ The *OFF* indication (18) flashes.
7. Press the *Increase value* button (14) to set the hours.
8. Press the *Decrease value* button (10) to set the minutes.
   ⇨ The end time for heating interval 1 on Monday is set.
9. Press the *SET* button (15).
   ⇨ The *Desired room temperature* indication (19) flashes.
10. Press the *Increase value* (15) and *Decrease value* (10) buttons to set the temperature.
    ⇨ The temperature for heating interval 1 on Monday is set.
11. Press the *SET* button (15) and repeat steps 3 to 10 to set heating interval 2 for Monday.
    ⇨ The heating intervals 1 and 2 for Monday are programmed.
12. Press the *SET* button (15).
    ⇨ The *TUE* indication (20) is illuminated.
13. Repeat steps 3 to 11 to set the heating programme for Tuesday and the following days.

Info

Press the *FAV* button (11) to select the set standard temperature.

Changing the heating programme

1. Press and hold the *MODE* button (13) to switch between the heating programmes 5+2, 1–7 and manual.

Changing the unit °C / °F

The temperature can be displayed in °C or °F in the *Room temperature* (23) and *Desired room temperature* (19) indications. Please proceed as follows to change the temperature unit:

1. Press the *°C °F* button (9) to switch between °C and °F.
   ⇨ The displayed temperature is converted to the other unit.

Setting the standard temperature

The device offers the possibility of setting a standard temperature, which can be activated and deactivated at the touch of a button. Please proceed as follows to set a standard temperature:

1. Press the *FAV* button (11) until the *Desired room temperature* indication (19) flashes.
2. Press the *Increase value* (14) and *Decrease value* (10) buttons until the desired standard temperature is displayed. The default setting is 24 °C.
3. Press the *FAV* button (11).
   ⇨ The standard temperature is set.
4. Press the *FAV* button (11) to switch between the standard temperature and the manually set temperature.

Key lock

The buttons on the remote control can be locked. To do so, please proceed as follows:

1. Press the *LOCK* button (8) until the *Key lock* indication (26) appears on the display.
   ⇨ The key lock is activated.
2. Press the *LOCK* button (8) again until the *Key lock* indication (26) goes out.
   ⇨ The key lock is deactivated.

Open window function

The thermostat switches off automatically if the temperature in the room suddenly drops.

Shutdown

Warning of electrical voltage

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

1. Put the device into standby mode by pressing the *ON/OFF* button (16).
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.
   ⇨ The operating control lamp (2) goes out.
3. Allow the device to cool down completely.
4. Clean the device according to the Maintenance chapter.
5. Store the device according to the Transport and storage chapter.

Available accessories

Accessories	Article number
Set of 2 feet (for TIH 300 ST)	1.410.003.001
Set of 2 feet (for TIH 500 ST / TIH 700 ST / TIH 900 ST)	1.410.003.099
Assembly support fastening clamps	1.410.003.004

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.
- If the device is not starting, have the electrics checked by a specialist company or by the manufacturer.

The surface of the device bulges outward:

- The material expands due to heating. This is a perfectly normal process. No measures are required.

The surface of the device only heats up slightly:

- The mains voltage does not meet the requirements. Check the mains voltage.
- The ambient temperature is low. This is a perfectly normal process. No measures are required.

The device makes noises after switch-on:

- The material expands due to heating. The insulation expands as well and generates the noises. This is a perfectly normal process. No measures are required.

The device does not respond to the infrared remote control:

- Check whether the distance between remote control and device is too large and reduce it if necessary.
- Make sure there are no obstacles, such as furniture or walls, between the device and the remote control. Ensure visual contact between device and remote control.
- Check the charging status of the batteries and change them if required.
- If the batteries have just been changed, check them for correct polarity.

The device still does not operate correctly after these checks:

Contact the manufacturer's customer service. If necessary, take 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.

- 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 device

Warning of electrical voltage
Never immerse the device in water!

Clean the device with a soft, 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	**TIH 300 ST**	**TIH 500 ST**	**TIH 700 ST**	**TIH 900 ST**
Article number	1.410.003.040	1.410.003.044	1.410.003.046	1.410.003.048
Heating capacity	300 W ± 5 %	580 W ± 5 %	700 W ± 5 %	900 W ± 5 %
Mains connection	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz
Nominal current	1.3 A	2.6 A	3.2 A	3.9 A
Connection type	CEE 7/7 (SchuKo)	CEE 7/7 (SchuKo)	CEE 7/7 (SchuKo)	CEE 7/7 (SchuKo)
Cable length	1.9 m	1.9 m	1.9 m	1.9 m
Efficiency	98 %	98 %	98 %	98 %
Surface temperature	70 – 90 °C	70 – 90 °C	70 – 90 °C	70 – 90 °C
Type of protection	IP 54	IP 54	IP 54	IP 54
Weight	3 kg	5 kg	6 kg	7.5 kg
Dimensions (width x height x depth)	605 x 505 x 22 mm	905 x 605 x 22 mm	1,205 x 605 x 22 mm	1,205 x 755 x 22 mm
Minimum distances				
top (A):	50 cm	50 cm	50 cm	50 cm
rear (B):	0 cm	0 cm	0 cm	0 cm
sides (C):	10 cm	10 cm	10 cm	10 cm
front (D):	30 cm	30 cm	30 cm	30 cm
Remote control batteries	AAA (1.5 V) (2 pcs.)	AAA (1.5 V) (2 pcs.)	AAA (1.5 V) (2 pcs.)	AAA (1.5 V) (2 pcs.)

Information requirements for electrical local space heaters

Parameter	**Value/item**			
Model	**TIH 300 ST**	**TIH 500 ST**	**TIH 700 ST**	**TIH 900 ST**
Heat output				
Nominal heat output P_{nom}	0.3 kW	0.58 kW	0.7 kW	0.9 kW
Minimum heat output (indicative) P_{min}	0.3 kW	0.58 kW	0.7 kW	0.9 kW
Maximum continuous heat output $P_{max,c}$	0.3 kW	0.58 kW	0.7 kW	0.9 kW
Power consumption				
In the Off state P_0	0.00 W	0.00 W	0.00 W	0.00 W
In standby mode P_{sm}	0.21 W	0.21 W	0.21 W	0.21 W
In idle condition P_{idle}	0.21 W	0.21 W	0.21 W	0.21 W
In networked standby operation P_{nsm}	0.00 W	0.00 W	0.00 W	0.00 W
Standby operation with information or status indication	No	No	No	No
Room heating annual efficiency in active operation $\eta_{s,on}$	94.0 %	94.0 %	94.0 %	94.0 %
Type of heat output/room temperature controller				
Single-stage heat output, no room temperature control	NO	NO	NO	NO
Two or more manually adjustable stages, no room temperature control	NO	NO	NO	NO
Room temperature controller with mechanic thermostat	NO	NO	NO	NO
With electronic room temperature controller	NO	NO	NO	NO
Electronic room temperature controller and time of day control	NO	NO	NO	NO
Electronic room temperature controller and weekday control	YES	YES	YES	YES
Other control options				
Room temperature control, with presence detection	NO	NO	NO	NO
Room temperature control, with open window detection	YES	YES	YES	YES
Remote control options	YES	YES	YES	YES
Adaptive control of heating start	NO	NO	NO	NO
Operating time limitation	YES	YES	YES	YES
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			

Info

The technical specifications refer to the heating panel with thermostat and timer, not to the panel.

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 (e.g. remote controls) 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.

This icon with the crossed-out wheeled bin indicates that batteries or accumulators must not be disposed of with household waste at the end of their life. If the device contains batteries or accumulators that contain mercury, cadmium or lead, the respective chemical symbol (Hg, Cd or Pb) is shown below the icon of the crossed-out wheeled bin. To prevent environmental pollution, do not carelessly leave batteries or electrical and electronic equipment containing batteries in public areas. In the European Union, batteries and accumulators must be returned to a designated collection point in accordance with REGULATION (EU) 2023/1542 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 12 July 2023 concerning batteries and waste batteries. Remove batteries/accumulators and dispose of them separately according to the relevant legal requirements.

Only for United Kingdom

According to Waste Electrical and Electronic Equipment Regulations 2013 (SI 2013/3113) (as amended) and the Waste Batteries and Accumulators Regulations 2009 (SI 2009/890) (as amended), devices that are no longer usable must be collected separately and disposed of in an environmentally friendly manner.

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