

EN

INSTRUCTIONS
DESIGNER GLASS CONVECTOR

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

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

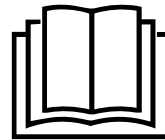
Information marked with this symbol helps you to carry out your tasks quickly and safely.



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:



TCH 2012 E



<https://hub.trotec.com/?id=47771>

TCH 2013 E



<https://hub.trotec.com/?id=47772>

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.
- 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.
- 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 device for heating vehicles.
- Never immerse the device in water.
- Do not make any unauthorised modifications, alterations or structural changes to the device.
- Do not use the heating device in immediate vicinity of swimming pools, bathtubs and showers.

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
	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!

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

Improper installation entails a risk of fire.
Do not place the device on combustible ground.
Do not place the device on high-pile carpets.
Do not use the device without the feet attached.



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. 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.

Information about the device

Device description

The designer glass convector TCH 2012 E / TCH 2013 E is used to generate warm air for interior spaces.

The device generates heat by means of an electric heating element. The air surrounding the heating element is heated. The heated air rises through the air outlet and thus creates a natural suction that makes the cold room air flow into the device.

The device is equipped with an integrated temperature sensor which controls the heating depending on the current and the desired room temperature.

You can set a target temperature value between 5 °C and 30 °C using the touch panel located at the top of the device.

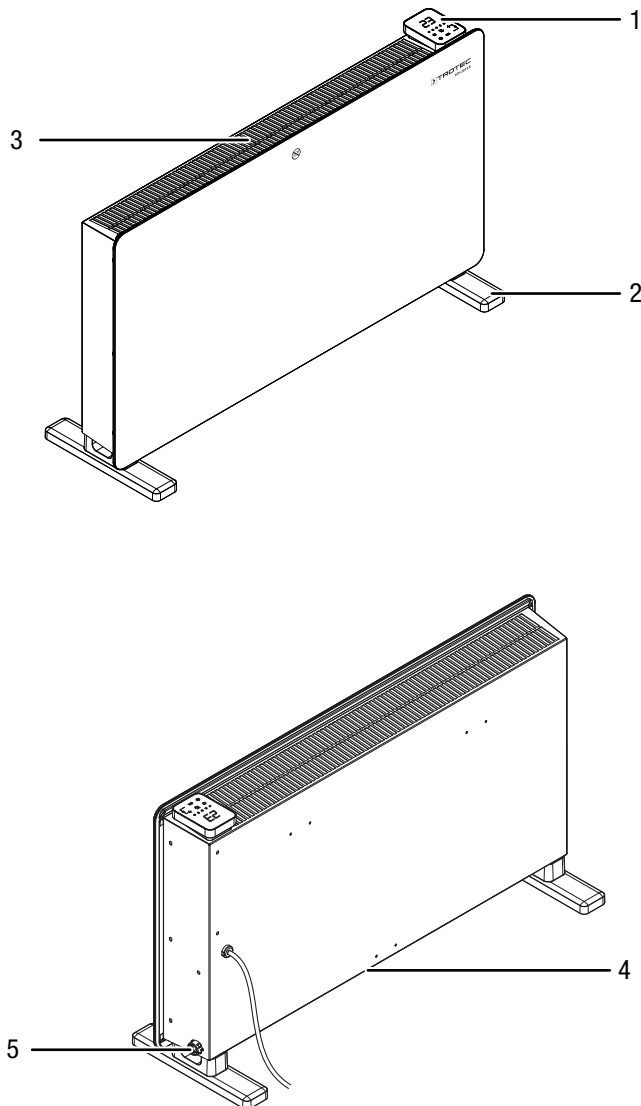
The integrated timer makes it possible to switch the device off with time delay.

The device can be operated via the Trotec Assistant App.

The device is protected against splash water (IP24).

The functioning of the two devices is identical, they merely differ in appearance or to be precise in colour: The TCH 2012 E is white and the TCH 2013 E black.

Device depiction



No.	Designation
1	Operating element with segment display
2	Foot
3	Air outlet
4	Air inlet
5	Temperature sensor

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 off the device by pressing the *On/Standby* button (14).
- 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 Convector
- 2 x Foot
- 4 x Screw (for foot)
- 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.

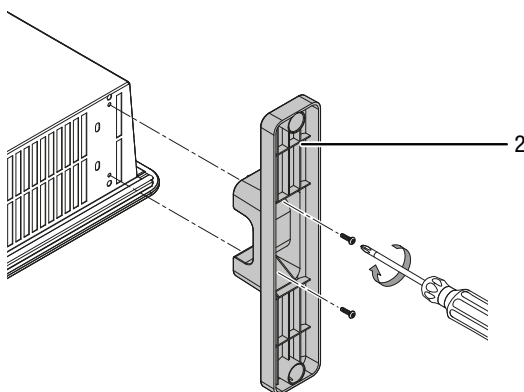


Warning

Risk of fire due to incorrect assembly! There is a risk of fire if the required minimum distances are not observed. Observe the technical data in the chapter Technical annex.

Feet assembly

1. Place the device on a table or on packaging board with the glass surface pointing down.
2. Fasten both feet (2) with 2 screws each.



3. Check the feet (2) for tight fit.
4. Set the device in an upright and stable position.

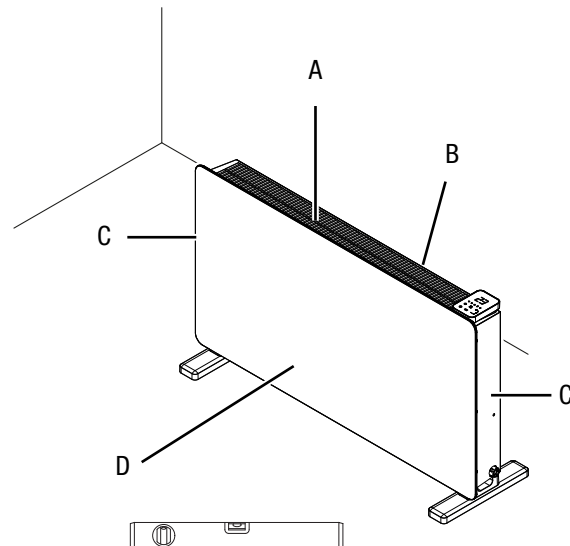
Start-up



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.
- 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 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.

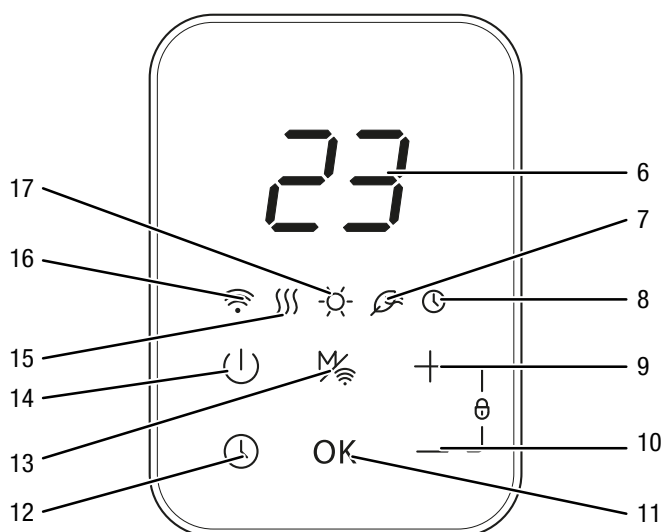
Connecting the power cable

- 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 element



No.	Designation	Meaning
6	Segment display	Operating mode indication Indication of the set room temperature Indication of remaining timer run-time Indication of days, hours and minutes while setting the weekday and time Indication of days and hours while programming the weekly schedule
7	Eco mode indication	Is illuminated when the Eco mode is activated
8	Timer indication	Illuminated when the timer is activated
9	Increase value button	For setting the desired room temperature (1 °C – 30 °C), weekday and number of hours for the timer (1 h – 24 h)
10	Decrease value button	
11	OK button	Confirming setting
12	Timer button	Switch the timer function on and off (1 h bis 24 h in increments of 1h)
13	Mode/WiFi button	Select operating mode Activating WiFi
14	On/Standby button	Switching the device on or activating Standby mode
15	Heating indication	Illuminated when the device is heating
16	WiFi indication	Illuminated when WiFi is activated
17	Comfort mode indication	Illuminated when Comfort mode is activated



Info

The control panel and the segment display illumination dims automatically if no button has been pressed for approximately 30 seconds.

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.

1. Press the *On/Standby* button (14).
 - ⇒ An acoustic signal is emitted.
 - ⇒ The device is now in Standby mode.
 - ⇒ The device starts in Comfort mode.
 - ⇒ The *Comfort mode* indication (17) is illuminated.
 - ⇒ The most recently set room temperature is indicated on the segment display (6).



Info

In Standby mode, the device memorizes the room temperature setting.

Setting the weekday and time

After a power failure or prior to initial use, the weekday and the time with minutes and hours have to be set.



Info

Press and hold the *Increase value* (9) and *Decrease value* (10) buttons to navigate through the numerical values more quickly.

1. Press the *Timer* button (12) for approx. 3 seconds.
 - ⇒ "d" is displayed on the segment display (6).
2. Press the *Increase value* button (9) and the *Decrease value* button (10) several times to select the current weekday.
 - ⇒ The indications "d1" to "d7" each represent a day of the week (d1 = Monday, d2 = Tuesday, d3 = Wednesday, d4 = Thursday, d5 = Friday, d6 = Saturday, d7 = Sunday).
3. Press the *OK* button (11) to confirm the setting.
 - ⇒ "H" is displayed on the segment display (6).
4. Press the *Increase value* button (9) and the *Decrease value* button (10) to select the hour between 00 and 23.
5. Press the *OK* button (11) to confirm the setting.
 - ⇒ "M" is displayed on the segment display (6).
6. Press the *Increase value* button (9) and the *Decrease value* button (10) to select the minute between 00 and 59.
7. Press the *OK* button (11) to confirm the setting.

Setting the operating mode

Mode

The following types of heating can be selected:

- Comfort mode 
 - Eco mode 
 - Frost monitor function *F_r*
1. Press the *Mode/WiFi* button (13) several times until the desired heating mode is selected.
⇒ The display indicates the selected heating mode.

Comfort mode

In Comfort mode, the room temperature can be set to between 5 and 30 °C.

The device continues to operate until the desired room temperature is reached.

If the determined room temperature exceeds the desired room temperature by 2 °C, the heating switches off. The *Heating* indication (15) disappears.

If the determined room temperature falls below the desired room temperature by 2 °C, the heating switches back to Comfort mode. The *Heating* indication (15) is illuminated.

Eco mode

In Eco mode, the room temperature can be set to between 1 and 26 °C.

The device continues to operate until the desired room temperature is reached.

If the determined room temperature exceeds the desired room temperature by 2 °C, the heating switches off. The *Heating* indication (15) disappears.

If the determined room temperature falls below the desired room temperature by 2 °C, the heating switches back to Eco mode. The *Heating* indication (15) is illuminated.

Frost monitor function

When the frost monitor function is activated, the device heats automatically once the room temperature is below 7 °C. This temperature cannot be changed.

Setting the desired room temperature

In Comfort mode and Eco mode, you can set the desired room temperature at any time.

The room temperature is preset to 19 °C.

1. Press the *Increase value* (9) and *Decrease value* (10) buttons to select the desired temperature. The temperature can be adjusted in 1 °C increments.
⇒ The desired room temperature is indicated on the segment display (6).



Info

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

Weekly schedule



Info

If you open a weekly schedule programme for the first time but the current weekday and time have not yet been set on the device, you will be prompted to do so. To do this, please follow the steps described in "Setting the weekday and time".



Info

If no button is pressed within 10 seconds when setting the weekly schedule, the settings you have made will be saved automatically. "P3" is displayed on the segment display.

The time periods of heating programmes P1 and P2 are predefined, the periods of heating programme P3 can be adapted.

Heating programme	Monday – Friday (time)	Heating mode
P1	00:00 - 01:00	Comfort mode
	01:00 - 07:00	Eco mode
	07:00 - 00:00	Comfort mode
P2	00:00 - 01:00	Comfort mode
	01:00 - 05:00	Eco mode
	05:00 - 09:00	Comfort mode
	09:00 - 19:00	Eco mode
	19:00 - 00:00	Comfort mode
P3	00:00 - 01:00	Comfort mode
	01:00 - 05:00	Eco mode
	05:00 - 09:00	Comfort mode
	09:00 - 12:00	Eco mode
	12:00 - 16:00	Comfort mode
	16:00 - 18:00	Eco mode
	18:00 - 00:00	Comfort mode

Heating programme	Saturday – Sunday (time)	Heating mode
P1	00:00 - 01:00	Comfort mode
	01:00 - 07:00	Eco mode
	07:00 - 00:00	Comfort mode
P2	00:00 - 01:00	Comfort mode
	01:00 - 08:00	Eco mode
	08:00 - 11:00	Comfort mode
	11:00 - 13:00	Eco mode
	13:00 - 16:00	Comfort mode
	16:00 - 20:00	Eco mode
	20:00 - 00:00	Comfort mode
P3	00:00 - 01:00	Comfort mode
	01:00 - 05:00	Eco mode
	05:00 - 00:00	Comfort mode

Proceed as follows to select heating programme P1 to P3:

1. Press the *Mode/WiFi* button (13) until the desired weekly schedule (P1, P2 or P3) appears on the segment display.
⇒ The weekly schedule has been selected.

Please proceed as follows to set heating programme P3:

1. Press the *Mode/WiFi* button (13) until "P3" appears on the segment display (6).
2. Press the *Mode/WiFi* button (13) for approx. 3 seconds.
⇒ "d1" is displayed on the segment display (6).
3. Press the *Increase value* button (9) and the *Decrease value* button (10) several times to select the desired weekday.
⇒ The indications "d1" to "d7" each represent a day of the week (d1 = Monday, d2 = Tuesday, d3 = Wednesday, d4 = Thursday, d5 = Friday, d6 = Saturday, d7 = Sunday).
4. Press the *OK* button (11) to confirm the setting.
⇒ 00 will be indicated on the segment display (6).
5. Press the *Increase value* button (9) or *Decrease value* button (10) to select the desired hour (0:00 to 23:00 o'clock).
6. Press the *Mode/WiFi* button (13) to select the heating mode (Comfort mode or Eco mode) for the desired hour. If no heating mode indicator is visible, the device is currently in frost monitor mode.
7. Press the *OK* button (11) to confirm the setting.
⇒ The device switches to the selected mode at the selected time.
8. Repeat steps 3 to 7 until you have set all weekdays and hours.
9. Once you have set all weekdays, press the *OK* button (11) for about 3 seconds.
⇒ The weekly schedule has been saved.
⇒ "P3" is displayed on the segment display.

Open window function

If the "Open window" function is activated and the room temperature drops by 2 °C within 4 minutes, the device will stop heating.

Please proceed as follows to activate the "Open window" function:

1. Press the *Mode/WiFi* button (13) and the *Increase value* button (9) simultaneously.
⇒ "F0" appears on the segment display (6) for approximately 3 seconds. After that, the previous value is displayed again.
⇒ If the room temperature drops by 2 °C within 4 minutes, "E3" appears on the segment display. The device will stop heating.
2. Press the *Mode/WiFi* button (13) and the *Decrease value* button (10) simultaneously to switch the "Open window" function off again.
⇒ "F1" appears on the segment display (6) for approximately 3 seconds. After that, the previous value is displayed again.



Info

The "Open window" function is automatically deactivated after 1 hour.

Setting the timer

The timer has the following functionality:

- automatic switch-off upon expiry of a preset number of hours.

The number of hours to be set can be between 1 and 24 hours and is adjustable in increments of 1 hour.

Notice

The device must not be left unattended in a freely accessible room with an activated timer.

Please proceed as follows to set the timer:

Option 1: Quick Settings

In the Quick Settings menu, you can choose between 2, 4, 6 and 8 hours before the device switches off automatically.

- ✓ The device is switched on.
1. Press the *Timer* button (12).
⇒ "0 h" is displayed on the segment display.
 2. Press the *Timer* button (12) again until the desired number of hours is indicated on the segment display (6).
⇒ The number of hours is displayed on the segment display for approximately 3 seconds and is then saved.
⇒ The desired time until automatic switch-off is saved.
⇒ The time left until switch-off is indicated on the segment display (6) and counted down in hours.
⇒ The device will then switch to Standby mode.

Option 2: Number of hours until the device switches off automatically

With this option, you can manually select a time between 0 and 24 hours.

- ✓ The device is switched on.
- 1. Press the *Timer* button (12).
 - ⇒ "0 h" is displayed on the segment display.
- 2. Select the desired number of hours by use of the *Increase value* (9) and *Decrease value* (10) button. The value range is between 0 and 24.
 - ⇒ The number of hours is displayed on the segment display for approximately 3 seconds and is then saved.
 - ⇒ The desired time until automatic switch-off is saved.
 - ⇒ The time left until switch-off is indicated on the segment display (6) and counted down in hours.
 - ⇒ The device will then switch to Standby mode.

Notes regarding automatic switch-off:

- Manually switching the device off disables the automatic switch-off function.
- If you select 0 hours, the timer will be off.

Switching the locking function on and off

The locking function prevents the buttons on the control panel from being used.

The device can be put into Standby mode even when the lock function is activated. When the device is switched on again, the lock function remains active.

Please proceed as follows to lock the control panel:

1. Simultaneously press the *Increase value* (9) and *Decrease value* (10) buttons.
 - ⇒ "Lc" is displayed on the segment display (6).
 - ⇒ The locking function is activated.
 - ⇒ The buttons on the control panel cannot be used, except for the *On/Standby* button (14).
 - ⇒ When a button is pressed, "Lc" appears on the segment display.
2. Simultaneously press the *Increase value* (9) and *Decrease value* (10) buttons again.
 - ⇒ The locking function is deactivated.

Night mode

In night mode, the brightness of the display is reduced from 22.00 o'clock to 7.00 o'clock and no acoustic signals are emitted. If no button is pressed for about 5 seconds, the display will go blank.

Between 07:00 o'clock and 22 00 o'clock, the display brightness is reduced after approximately 10 seconds.

Proceed as follows to activate night mode:

- ✓ The device is in Standby mode.
- 1. Press the *Mode/WiFi* button (13) and the *Timer* button (12) simultaneously.
 - ⇒ "nn" is displayed on the segment display (6).
 - ⇒ The night mode is activated.
- 2. Simultaneously press the *Mode/WiFi* button (13) and the *Timer* button (12) again.
 - ⇒ "nF" is displayed on the segment display.
 - ⇒ The night mode is deactivated.

Operation with WiFi and installation of the Trotec Assistant App



All settings can also be made via the Trotec Assistant App. The settings of the timer functions that are operated via the app are not additionally displayed on the control panel of the device. Install the Trotec Assistant App on the terminal device you want to use in combination with the device.



Info

Some of the app's functions require access to your location and an active internet connection.

The app is available for download in the Google Play Store and Apple App Store as well as via the following link:



<https://hub.trotec.com/?id=45093>

WiFi connection

Proceed as follows to establish a WiFi connection:

- ✓ The device is in Standby mode or is switched on.
- 1. Download the Trotec Assistant App and open it.
- 2. Select *Add Device* by pressing the + symbol in the top right corner.
- 3. Select *Small household appliance* and *Air conditioning (Wifi)* in the level below.
- 4. Press the *Mode/WiFi* button (13) on the control panel of the device for approx. 3 seconds.
 - ⇒ The *WiFi* indication (16) flashes.
 - ⇒ The device is in *Quick Connect* mode.
- 5. Follow the instructions in the app.
 - ⇒ Once the *WiFi* indication (16) is permanently illuminated, the connection is established.



Info

If the WiFi connection is interrupted, the device may not automatically reconnect to the network. If this is the case, re-establish the connection with the *Mode/WiFi* button (13).

Shutdown



Warning of electrical voltage

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

1. Switch off the device by pressing the *On/Standby* button (14).
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. Allow the device to cool down sufficiently.
4. Clean the device according to the Maintenance chapter.
5. Store the device according to the 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 on-site fusing.

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 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 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.

- Switch off the device by pressing the *On/Standby* button (14).
- 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	TCH 2012 E	TCH 2013 E
Housing colour	white	black
Heating capacity	2000 W	2000 W
Setting range	5 °C to 30 °C	5 °C to 30 °C
Mains connection	230 V / 50–60 Hz	230 V / 50–60 Hz
Power consumption	2000 W	2000 W
Nominal current consumption	8.7 A	8.7 A
Type of protection	IP24	IP24
Cable length	1.5 m	1.5 m
Plug type	CEE 7/7	CEE 7/7
Dimensions (depth x width x height)	95 x 750 x 440 mm	95 x 750 x 440 mm
Minimum distance to walls and other objects	A: top: 100 cm B: rear: 50 cm C: side: 50 cm D: front: 50 cm	100 cm 50 cm 50 cm 50 cm
Weight	6 kg	6 kg

Information requirements for electrical local space heaters

Parameter	Value / item	
Model	TCH 2012 E	TCH 2013 E
Heat output		
Nominal heat output P_{nom}	2 kW	2 kW
Minimum heat output (indicative) P_{min}	n/a	n/a
Maximum continuous heat output $P_{max,c}$	1.988 kW	1.988 kW
Power consumption		
In the Off state P_0	n/a	n/a
In standby mode P_{sm}	0.30 W	0.30 W
In idle mode P_{idle}	0.30 W	0.30 W
In networked standby operation P_{nsm}	0.70 W	0.70 W
Standby mode with display of information or status	YES	YES
Room heating annual efficiency in active operation $\eta_{s,an}$	94.0 %	94.0 %
Type of heat output/room temperature controller		
Single stage heat output, no room temperature control	NO	NO
Two or more manual stages, no room temperature control	NO	NO
Mechanic thermostat room temperature control	NO	NO
With electronic room temperature control	NO	NO
Electronic room temperature control plus day timer	NO	NO
Electronic room temperature control plus week timer	YES	YES
Other control options		
Room temperature control, with presence detection	NO	NO
Room temperature control, with open window detection	YES	YES
Remote control options	YES	YES
Adaptive start control	NO	NO
Working time limitation	YES	YES
Black bulb sensor	NO	NO
Self-learning functionality	NO	NO
Control accuracy	NO	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.

Simplified EU Declaration of Conformity

Hereby, Trotec GmbH declares that the radio equipment type (TCH 2012 E – WiFi module / TCH 2013 E – WiFi module) is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

TCH 2012 E: <https://hub.trotec.com/?id=47771>

TCH 2013 E: <https://hub.trotec.com/?id=47772>

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