

Operation Manual

Infrared Ceiling Heater

65460, 65461

wiltec

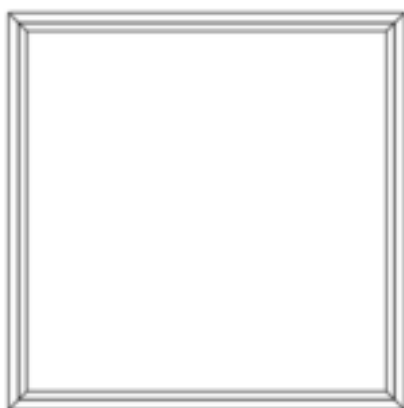


Illustration similar, may vary depending on model

Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!

Due to further developments, illustrations, functioning steps and technical data can differ insignificantly.

Updating the documentation

If you have suggestions for improvement or have found any irregularities, please contact us.



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Even though, the WilTec Wildanger Technik GmbH has undergone biggest possible efforts to ensure that the operating manual is complete, faultless, and up to date, mistakes cannot be entirely avoided.

If you should find a mistake or wish to make a suggestion for improvement, we look forward to hearing from you.

Send an e-mail to:

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To return orders for exchange, repair, or other purposes, please use the following address. Attention! To allow for a smooth execution of your complaint or return, it is important to contact our customer service team before returning the goods.

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Introduction

Thank you for purchasing this quality product. **To minimise the risk of injury we urge that our clients take some basic safety precautions when using this device. Please read the operation instructions carefully and make sure you have understood its content.**

Keep these operation instructions safe.

Safety instructions

Warning symbols

Pictogram	Meaning
	This symbol indicates a hazard with a medium risk level. Failure to observe it may result in serious injuries or death.
	Warning of electrical voltage. — This symbol indicates hazards to the life and limb of persons caused by electrical voltage.
	This symbol on the device indicates that it is prohibited to place objects (such as towels, clothing, etc.) on or directly in front of the device. To avoid overheating and the risk of fire, the device must not be covered.
	This symbol on the device indicates hazards to persons due to a hot surface.
	This symbol on the device indicates that it is prohibited to spray the device with liquids.
	This symbol on the device and the marked information indicate that the operating instructions must be observed.

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!

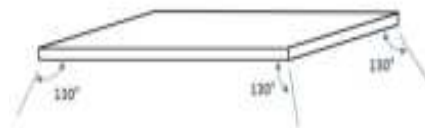
Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury. Save all warnings and instructions for future reference.



Warning!

- This series must be mounted at a height of at least 1.8 m!
- Not suitable for particle board or other non-load-bearing materials!
- Ensure that the series you purchased is installed according to the tips in the installation section!
- This device can be used by children aged 8 years and above, as well as by persons with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, provided they are supervised or instructed on the safe use of the device and understand the associated hazards.
- Children must not play with the device. Cleaning and maintenance of the device must not be carried out by children without supervision.
- Children under 3 years of age should be kept away unless continuously supervised.
- Children aged 3 to under 8 years are only allowed to switch the device on and off, provided it is in its intended normal operating position and they have received instructions on safe use and understand the associated hazards.
- Children aged 3 to under 8 years must not plug in, regulate, clean, or perform maintenance on the device.

- 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.
- Sensors with temperature detection or temperature controllers should not be placed within the 130-degree radiation range of the ceiling heating panel, as this may affect accurate temperature detection.



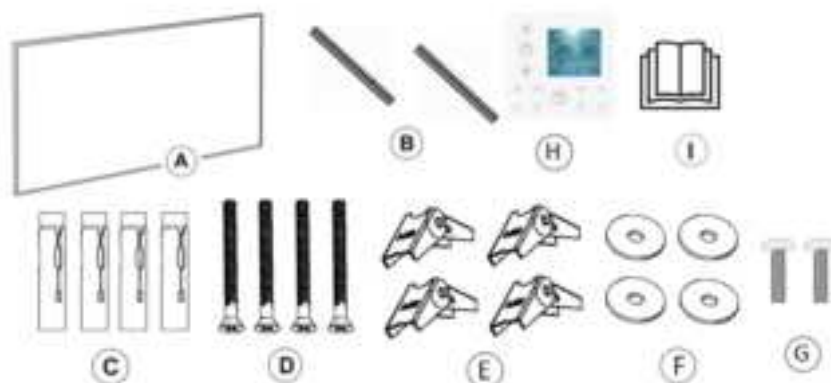
Caution! Risk of burns!

- Some parts of this product can become very hot and cause burns. Particular caution is advised if children and vulnerable people are present.
- It is dangerous to install the device near curtains and other flammable materials.
- To avoid burns, the following individuals should be particularly careful when using the heaters: infants and children, people with sensitive skin, the elderly, the sick, intoxicated individuals, and those taking sleeping pills.
- Remove the protective film (on the front) before use.
- Ensure that the operating voltage is between 220–240 V, 50 Hz, and that the power supply is strictly in accordance with the instructions. The neutral wire is on the left, and the live wire is on the right, and the device must be properly grounded.
- As the device consumes more power than standard household appliances, it must be connected to a separate circuit protected by its own 5 A fuse, similar to dishwashers, ovens, and other large appliances.
- Do not use the device in potentially explosive rooms.
- Do not use the device in too dusty or too hot environments.
- Set the device up in an upright and stable position.
- Allow the device to dry out completely after cleaning with a damp cloth. Do not operate it when it is damp.
- Do not use the device with wet or damp hands. Do not expose the device to direct water spray.
- Never insert objects or limbs into the device.
- Do not cover the device or transport it during operation.
- Do not sit on the device.
- This device is not a toy! Keep it away from children and animals. Do not leave the device unattended during operation.
- Check accessories and connection parts for possible damage before each use of the device. Do not use any defective devices or device parts.
- Ensure that all electric cables outside the device are protected from damage. Never use the device if electric cables or the power connection are damaged!
- The electrical connection must comply with the specifications provided in this manual.
- Do not use the device if the socket or cable is overloaded.
- When selecting an extension cord, consider the power consumption, cable length, and intended use of device. Fully unwind extension cords. Avoid electrical overload.
- Before performing maintenance, care, or repair work, unplug the device or disconnect the circuit.
- Switch off the device and unplug it when not in use.
- Under no circumstances should the device be used if the plug or power cord is damaged. If the power cord is damaged, it must be replaced by a qualified electrician to avoid hazards. Defective power cables pose a serious risk.
- When installing the device, observe the minimum distances to walls and other objects.
- Never drill into the heating device.
- Do not use the device in close proximity to curtains.
- Do not place the device on combustible surfaces.
- Do not transport the device during operation.
- Do not touch the surface during operation to avoid burns.
- Allow the device to cool down before transporting or performing maintenance.
- Do not use this device near bathtubs, shower trays, swimming pools, or other water containers. There is a risk of electric shock!
- The device must be placed so that the switches and controls cannot be reached by a person in a bathtub or shower.

Technical data

Model	65460	65461
Power (W)	370	660
Dimensions (mm)	655 × 630 × 35	1080 × 630 × 35
Heating element	Carbon	
Heating method	Far infrared	
Input voltage	220–240 V/50 Hz	
Surface temperature (°C)	130–150	
Frame	Aluminium	
Cable length (m)	≤ 1.9	
LED (W)	40	
Lighting (lumen)	max. 4700	

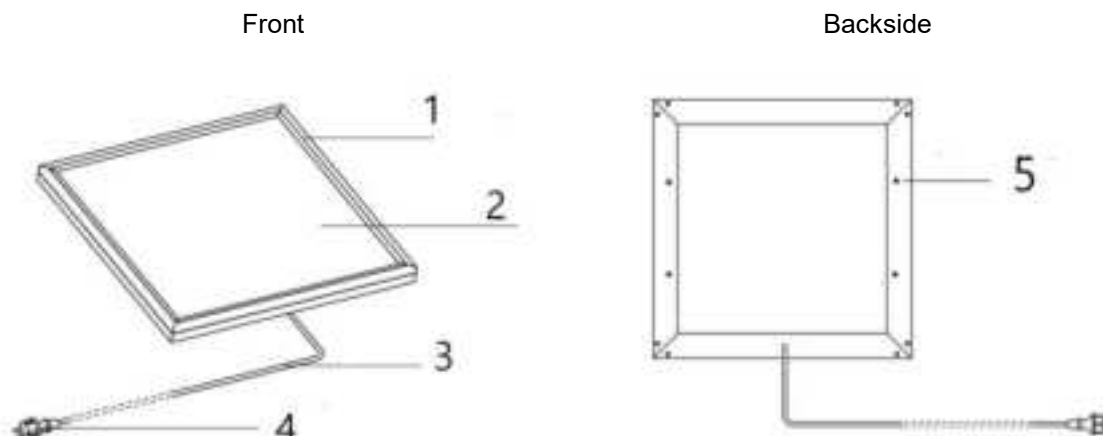
Scope of delivery



Nº	Name	Qty.	Nº	Name	Qty.
A	Heating device	1	E	Spring toggles	2
B	Hanging units	2	F	Washers	1
C	Metal expansion tubes	4	G	Thermostat	1
D	Screws	4			

Note! C and D are applied to ceilings, while D, E, and F are used on gypsum board ceilings.

Device structure



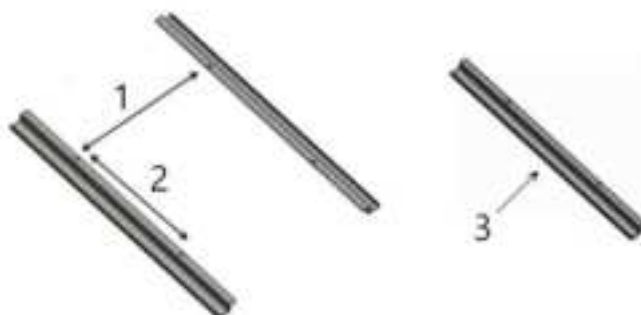
No	Name	No	Name
1	Edge LED lighting	4	Power plug
2	Front surface	5	Limit screw
3	Power cord		

Installation

Warning!

- Installation work must be carried out by a professional electrician!
- Do not suspend the panels by the power cord!
- No adhesive is allowed for hanging or supporting!
- Ensure that the ceiling is stable enough!
- Remove the front protective film before use!
- The power cord must be properly grounded!

Before starting the installation, please make sure to determine the material of the ceiling. Below are the installation methods for concrete and gypsum board ceilings. Choose and use the appropriate accessories based on the specific situation.



No	Name
1	Distance A
2	Distance B
3	Hook

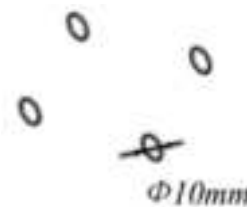
No	Screw hole distances (mm)
65640	A = 495, B = 100
65641	A = 495, B = 300

Installation on concrete ceilings

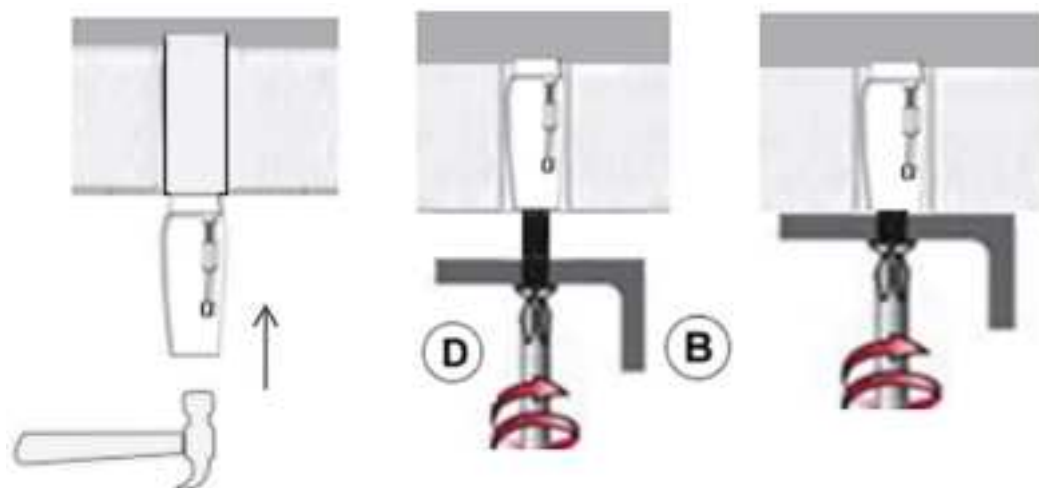
1. Measure and mark the correct distances "a" and "b" on the concrete ceiling where you want to install the device.
2. Drill four 10mm holes at the marked positions.



Caution! Avoid drilling holes with a diameter that is too large!



3. Insert the metal expansion tubes (**C**) into the drilled holes.



4. Thread the screws (**D**) through the holes of the hanging units (**B**) and then tighten them into the expansion tubes.



Caution! Tighten the screws firmly until fully seated!



No	Name
1	Ceiling
2	Must be tightened firmly until fully seated

Installation on gypsum board ceilings

1. Measure and mark the correct distances "a" and "b" on the ceiling where you want to install the device.



Caution!

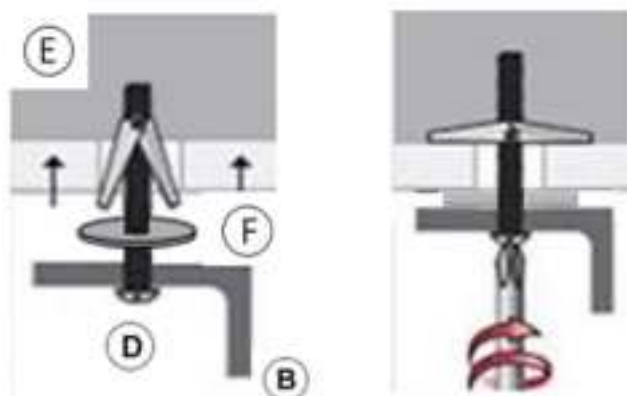
- Please note that the spring toggles (**E**) are designed for gypsum board or wooden ceilings with a thickness of 9–18 mm. They must not be used on gypsum board ceilings with a thickness of less than 9 mm.
- For wooden ceilings exceeding 18 mm in thickness, you should use metal expansion tubes (**C**) or your own nails, ensuring that these nails are at least M5×40 mm in size or larger.

2. Drill four 18mm holes at the marked positions.



Caution! Avoid drilling holes with a diameter that is too large!

3. Thread the screws (**D**) through the holes of the hanging units (**B**), washers (**F**), and spring toggles (**E**), then insert the spring toggles (**E**) into the pre-drilled holes.



4. Tighten the screws.

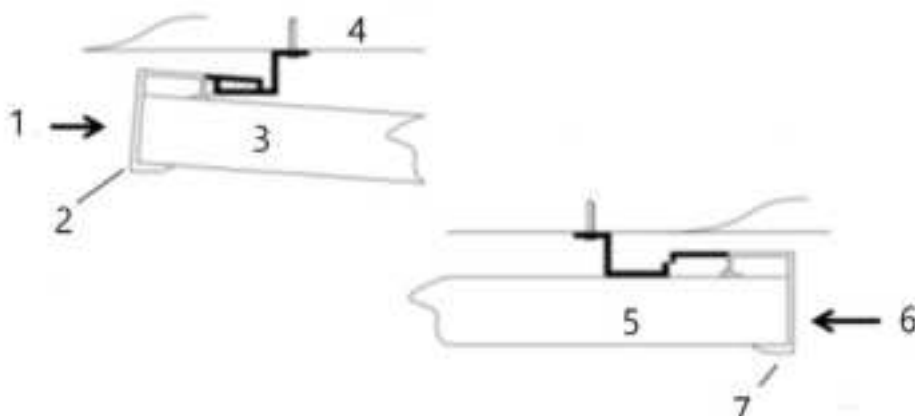
Installing the heating device (**A**) after completing the ceiling installation

1. Slide the rear of the left long frame into the hook, then push it back so that the rear of the right long frame is slid into the other hook.



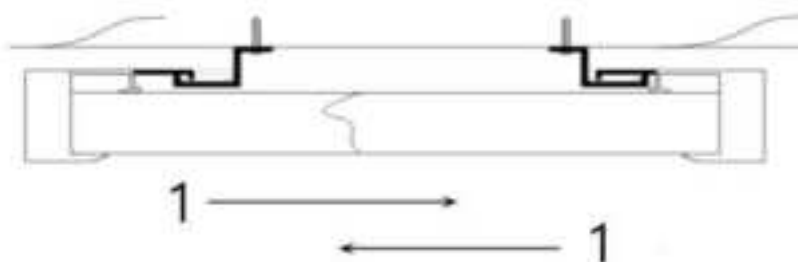
Caution! The hooks are intended only for the two long frames, not for the two short ones!

2. Ensure that the hooks are positioned between the two limit screws!



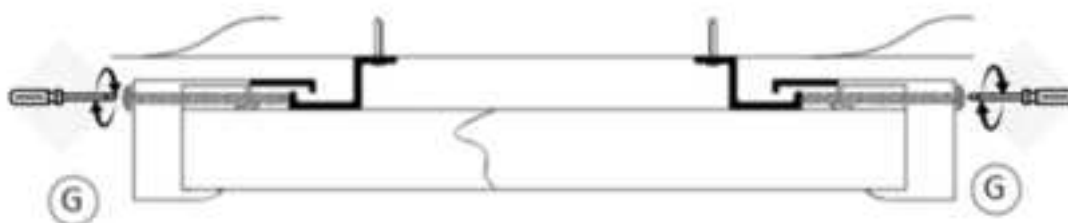
Nº	Name	Nº	Name
1	Slide	5	Panel
2	Left long frame	6	Slide
3	Panel	7	Right long frame
4	Ceiling		

3. To prevent the panel from falling, you must slide it left and right to ensure that the two hooks are fully engaged in the rear of the two long frames!



1 = Push

4. Screw the screws (G) into the holes provided on both sides of the product and tighten them.

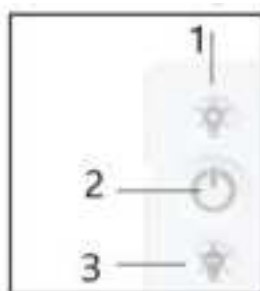


Thermostat

Specifications

- Battery-powered: DC 4× 1.5-V AAA batteries (not included)
- Adjustable temperature range: 5 °C–35 °C, resolution: 1 °C
- Room temperature range: 0 °C–50 °C, display resolution: 0.1 °C
- Accuracy of measured temperature: ± 0.5 °C
- Operating environment range: 1 °C–50 °C
- Radio frequency: 433.92 MHz

Control panel for lighting

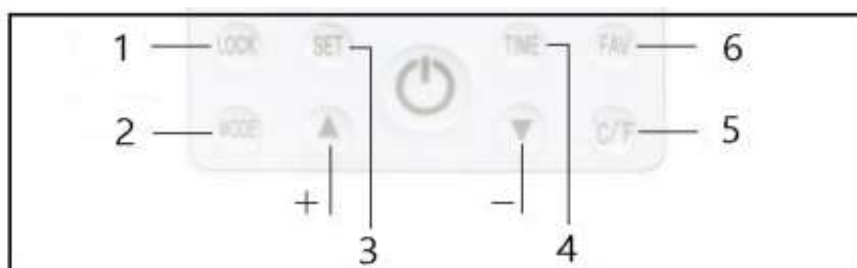


Nº	Name	Nº	Name
1	Increase brightness	3	Decrease brightness
2	Light On/Off		



Nº	Name
1	LCD Screen for Thermostat

LCD screen for thermostat



Nº	Name	Nº	Name
1	Lock	4	Time
2	Mode	5	C/F (Celsius/Fahrenheit)
3	Set	6	Favourite (Fav)



1. This thermostat also includes a separate control panel for LED lighting.
2. The thermostat measures the room temperature with its integrated sensor and transmits the signal to the panel to turn the heating on or off as the ambient temperature changes, in order to maintain a constant room temperature. If the room temperature is 0.5 °C higher than the set temperature, the thermostat will send an off-signal to the panel; if the room temperature is 0.5 °C lower than the set temperature, the thermostat will send an on-signal to the panel to activate the heating function.
3. The display shows the set temperature as well as the measured temperature, time, date, modes, etc.
4. The thermostat features functions such as weekly programming, temperature setting, automatic shutdown during temperature spikes, favourite temperature, and time setting.
5. It is powered by 4× 1.5-V AAA batteries. Please replace the batteries when the battery symbol starts blinking, as the panel will otherwise no longer be controllable.
6. The keypad lock function is designed to prevent children from misusing the device.
7. When the LCD screen is off, it means that only the heating power of the panel is off. The remote control itself remains functional until the batteries are drained or damaged.
8. The LCD screen can only operate within a temperature range of 1 °C to 50 °C.

Operation

Operating instructions for the LED lighting function

1. Press the On/Off button for the LED light to turn the LED lighting around the panel on or off. Long press to change the light colour (only for some models).
2. Press +/- to adjust the brightness. A short press can set the brightness to 100 %, 75 %, 50 %, and 25 %. A long press can adjust the brightness from 100 % down to 5 %.

Operating instructions for the heating function

Pairing the thermostat with the heating device

Power on the panel, press the On/Off button on the thermostat, and then press the °C/°F and Mode buttons simultaneously to pair the thermostat with the panel until a long beep is heard.

Notes!

- Pairing should be completed within one minute, otherwise you will need to power on the panel again.
- Power on the panel again if you want to pair the panel with another thermostat.
- One thermostat can be paired with and work with multiple panels simultaneously.
- Power off those panels you do not want to pair before starting the pairing process.


Setting the Time and Day

It is important to set the time and day accurately if you want your programmed events to start on time.

1. Press and hold the TIME button for 3 s until the year of the date starts blinking.
2. Use the ▲ or ▼ button to set the year, then briefly press the TIME button to save and proceed with setting the month/day/hours/minutes in a similar manner.
3. Briefly press the TIME button again to save and exit the process.



Manually turn the thermostat On/Off

1. Press the ON/OFF button to turn the thermostat on or off.
2. When the thermostat is turned off, the LCD display will only show the current room temperature.
3. When the thermostat is turned on, you can use the ▲ or ▼ buttons to increase or decrease the set temperature. If the set temperature is below the room temperature, the heating device will be off.
4. If the set temperature is above the room temperature, the thermostat will turn on, and the heating symbol  will appear on the thermostat's screen, indicating that the heating device is being powered.

Notes!

- The default set temperature when the product starts is 19 °C (in manual mode).
- Adjustable temperature range: 5–35 °C

Locking the buttons

- Press and hold the LOCK button  for 3 s until a lock icon appears.
- To unlock the buttons, repeat the above step.

°C/°F Display

Briefly press the C/F button to switch between Celsius and Fahrenheit or Fahrenheit and Celsius.

FAV Function

- Press and hold the FAV button for 3 s until the set temperature icon starts blinking. The default preferred temperature is 24°C, which can be adjusted using the ▲ and ▼ buttons.
- Briefly press the FAV button to confirm. During daily use, the set temperature will switch to the preferred temperature with a short press of the FAV button. Pressing the FAV button again will revert to the original set temperature.

Switching between manual mode, 5+2 mode, and 1–7 mode

By default, the thermostat is in manual mode. Press and hold the MODE button to switch to 5+2 mode (see below). Press and hold the MODE button again to switch to 1–7 mode (see below). Press and hold the MODE button once more to return to manual mode. This cycle repeats.

How to program your thermostat

Press and hold the SET button to enter programming mode. (Press and hold again to exit the mode)

Notes!

- The programming mode has a time-out limit. If no buttons are pressed within 8 s, the device will return to the main screen.
- Programming must be done in 5+2 or 1–7 programming mode. In manual mode, pressing and holding the SET button will not trigger any response.

5+2 programming mode

You can program the thermostat to fit your lifestyle – weekdays and weekends, plus up to 4 groups of time intervals per day.

1. Once in 5+2 mode, press and hold the SET button for 3–5 s until the program icon ① and the weekdays (MON TUE WED THU FRI) along with the ON and time symbols are displayed on the screen and start blinking.



2. Press the ▲ button to set the hour (+1 hour/press) and press the ▼ button to set the minutes (+5 min/press) to set the start time for program ①.
3. Press the SET button once, and the OFF symbol will blink on the screen. Use the ▲ button to set the hour (+1 hour/press) and the ▼ button to set the minutes (+5 min/press) to set the end time for program ①.
4. Press the SET button again, and the temperature symbol will blink on the screen. Use the ▲ or ▼ button to set the desired temperature for program ①.

Notes!

- Adjustable temperature range: 5–35 °C
 - Briefly press the FAV button to select your preferred temperature.
5. Press the SET button to bring up program ② for the weekdays, and repeat steps 2–4. Users can set up programs ③ and ④ in a similar manner.
 6. After setting program ④, press the SET button to bring up the settings for SAT and SUN, and repeat steps 2–4 to set programs ①, ②, ③, and ④ for the weekend.

1–7 programming mode

You can program the thermostat to set two time intervals per day for each day of the week.

- Once in 1–7 mode, press and hold the SET button for 3–5 s until the program icon ① and MON (Monday) are displayed, and the ON and time symbols start blinking on the screen.
- Users can then follow the steps 2–4 mentioned above to set the on/off times and the desired temperature for programs ① and ② from Monday to Sunday in sequence.

Notes!

The default start times, end times, and temperature settings are detailed in the following table.

Mode \ Time		Time	Start time	End time	Standard setting temperature (°C)
5+2	Mon–Fri	1	00:00	06:30	17
		2	06:30	08:45	19
		3	08:45	17:00	17
		4	17:00	22:30	19
	Sat–Sun	1	00:00	08:00	17
		2	08:00	14:00	19
		3	14:00	17:30	17
		4	17:30	23:15	19
1–7	Mon	1	06:30	17:00	17
		2	17:00	22:30	19
	Tue	1	06:30	17:00	17
		2	17:00	22:30	19
	Wed	1	06:30	17:00	17
	Thu	2	17:00	22:30	19
	Fri	1	06:30	17:00	17
	Sat	2	17:00	22:30	19
	Sun	1	06:30	17:00	17



1. The device can still be turned on and off, or the temperature can be adjusted normally during the weekly timer. Only the current time period will be affected.
2. Programming groups can run across date boundaries.
3. When programming, you should avoid setting overlapping intervals between workgroups. If the time periods overlap, the group with an earlier start time will be turned on first, and the group with an earlier end time will be turned off until the next group is activated.
4. The programmed time and temperature settings will be restored with the next program step in memory.
5. Once the programming mode setup is complete, the thermostat will continue to operate in programming mode even if the thermostat is turned off. The heating device will be turned on or off according to the programmed settings.

Open-window detection

The thermostat will automatically turn off the heating device if a sudden drop in room temperature is detected.

Notes!

- The date and time need to be reset after replacing the battery. Reprogramming is not required.
- Alkaline batteries are recommended. If all the buttons on the thermostat are not working, try replacing the batteries.
- Replace the batteries with new ones as soon as the battery symbol on the screen starts blinking, as this could otherwise lead to failure, blockage, or malfunction.
- First, check if the set temperature is significantly higher than the room temperature if the heating device does not turn on through the thermostat.
- If users want the weekly timer and temperature settings to work, make sure the 5+2 or 1-7 mode is activated. If users want to disable these functions, switch to manual mode.
- Do not cover or touch the temperature sensor located at the top of the thermostat.
- Place the thermostat in an open, normal room environment, not inside a drawer, pocket, or under a pillow/quilt, etc.
- Remove the batteries from the thermostat if it will not be used for an extended period.

Troubleshooting

Problem	Possible Cause	Suggested Solution
There is a noise when the device is initially powered.	Due to the structural stresses of the thermal insulation material.	This is normal and not a cause for concern.
The surface of the device was slightly raised.	Due to the thermal expansion of the surface material.	This is normal and not a cause for concern.
The surface of the heating device is slightly warm.	1. The voltage is too low.	1. Install a voltage regulator.
	2. In a low-temperature environment.	2. This is normal and not a cause for concern.

Maintenance and service

Activities before starting maintenance



Warning! Electrical voltage

- Do not touch the power plug or the power cord connection with wet or damp hands.
- Hold the power plug firmly while pulling the power cord out of the socket.
- Allow the device to cool down completely.
- Tasks that require opening the housing must only be carried out by qualified electricians.

Cleaning the device



Warning! 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 the electrical components from moisture. Do not use aggressive cleaning agents such as cleaning sprays, solvents, alcohol-based, or abrasive cleaners to dampen the cloth.
- Wipe the housing dry after cleaning.
- Wait for the housing to have completely dried before using the device again.

Storage

When the device is not in use, observe the following storage conditions:

- Dry and protected from frost and heat
- In an upright position, protected from dust and direct sunlight
- If necessary, with a cover to protect it from intrusive dust
- Do not place any other devices or objects on top of the device to prevent damage

Disposal regulations

EU guidelines regarding the disposal of scrap electric appliances (WEEE, 2012/19/EU) were implemented in the law related to electrical and electronic equipment and appliances.

All WilTec electric devices that fall under the WEEE regulations are labelled with the crossed-out wheeled waste bin logo. This logo indicates that this electric equipment must not be disposed with the domestic waste.

The company WilTec Technik GmbH has been registered in the German registry EAR under the WEEE-registration number DE45283704.

Disposal of used electrical and electronic appliances (intended for use in the countries of the European Union and other European countries with a separate collection system for these appliances).

The logo on the article or on its packaging points out that this article must not be treated as normal household waste but must be disposed to a recycling collection point for electronic and electrical waste equipment. By contributing to the correct disposal of this article you protect the environment and the health of your fellow men. Environment and health are threatened by inappropriate disposal.



Material recycling helps reduce the consumption of raw materials.

Additional information on recycling this article can be provided by your local community, municipal waste disposal facilities, or the store where you purchased the article.

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