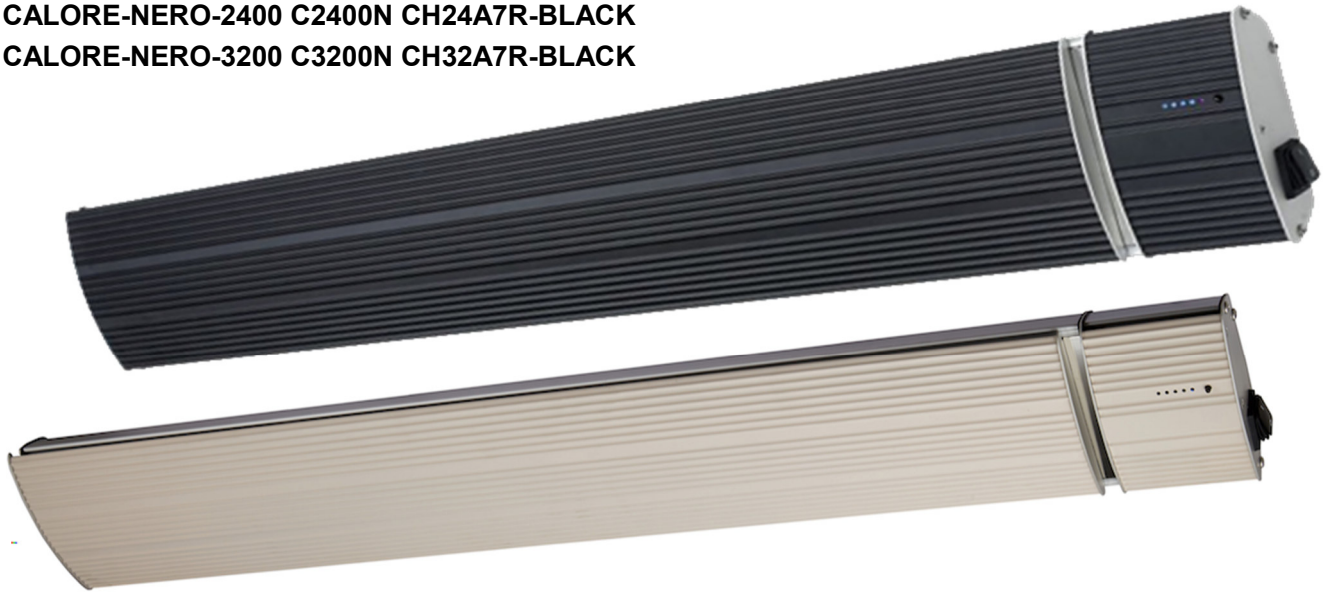
Version: 2022-08-19

INFRARED HEATER

Models

CALORE-BIANCO-1500 C1500B CH15A7R-WHITE
CALORE-BIANCO-1800 C1800B CH18A7R-WHITE
CALORE-BIANCO-2400 C2400B CH24A7R-WHITE
CALORE-BIANCO-3200 C3200B CH32A7R-WHITE
CALORE-NERO-1500 C1500N CH15A7R-BLACK
CALORE-NERO-1800 C1800N CH18A7R-BLACK
CALORE-NERO-2400 C2400N CH24A7R-BLACK
CALORE-NERO-3200 C3200N CH32A7R-BLACK



The photo is only indicative, the actual may appear slightly different in colour.

IMPORTANT INFORMATION

Please read the operating instructions carefully before installing and using the infrared heater.
This user manual contains important information for your safety as well as recommendations on the correct use and maintenance of the appliance.

WHAT'S IN THE BOX

- Infrared heater equipped with flexible cable and Shuko plug.
- Instructions for use and installation.
- One box containing 2 sets of brackets.
- An infrared remote control (AAA batteries not included)

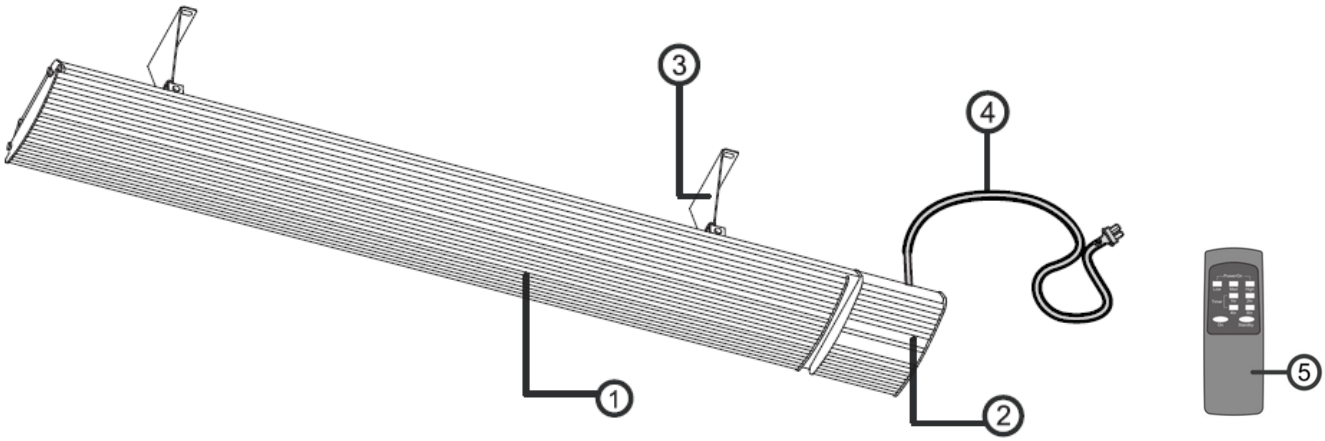
SAFETY INSTRUCTIONS

- Certain precautions must be observed when using the infrared heater. Improper use without observing the precautions can cause damage to the health of the user and other persons as well as damage to their property.
- Use only the voltage indicated on the heater's nameplate.
- Connect the appliance only to a correctly installed power outlet with earth contact.
- The heater must be connected to the power supply via a2-pole circuit breaker.
- It is strongly recommended to use a 30mA differential switch.
- The unit must be handled with care and avoid vibration or shock.
- Do not use the unit in areas where petrol, paint or other flammable liquids are used or stored.
- Do not use the appliance particularly in dusty environments or where explosives are stored.
- Do not use the appliance on a construction site, in a greenhouse, in a barn or in animal stables.
- Do not use the appliance as a sauna heater.
- Heating: Do not touch the radiant plate. The temperature of the radiant plates during operation of the heater can reach 380 °C. To avoid burns, do not touch the surface of the appliance with your hands and other body parts. It is also necessary to avoid touching the heater while the appliance is switched on, as serious burns may occur. The appliance may take up to 1 hour to cool down after switching off.
- Do not place any clothes, towels or similar on top of the heater to dry. Risk of overheating and fire
- Do not leave the heater unattended during use.
- Do not use this heater on a wet surface, or where it may fall or be pushed into water.
- Do not touch an appliance that has fallen into the water. Switch off the power first and unplug it immediately.
- If the power cable is damaged, it must be replaced by an authorized electrician.
- If the heater is defective, it must be checked and repaired by the manufacturer, its service agent or similarly qualified persons.
- Do not use the appliance with wet hands.
- Use this device only as described in this manual. Any other use is not recommended by the manufacturer and may cause fire, electric shock or injury.
- Do not use abrasive products for cleaning this appliance. If the body gets dirty, clean the dust with a cloth, the radiant boards must be cleaned cold with a soft damp cloth. Always remove the plug from the mains before cleaning.
- The heater must be installed by an authorized installer at least 2.2 m from the floor
- The heater must not be placed immediately under a power outlet. The socket must not be located on the back of the heater. The power outlet must be located outside the physical footprint of the unit to minimize heat build-up behind the heater.
- The system must be equipped with a standard power supply point with a break contact distance of at least 3 mm. The standard power outlet must be installed by an authorized electrician.
- If the heater is to be mounted in slope (e.g. inclined or angled ceiling), make sure that the electrical connection is positioned at the lowest point of the heater.
- Do not connect the appliance to the power source until it has been installed in its final position and adjusted to the position where it will be used.

- Do not work with the cable wound in a spiral as this could cause heat accumulation, which could be dangerous.
- The use of an extension cord with this appliance is not recommended.
- Do not allow the cable to come into contact with heated surfaces during operation.
- Do not run the power cable under carpets, rugs or runners etc. Place the cable away from areas where it may trip.
- Children under 3 years of age must be kept away, unless they are continuously supervised.
- Children between 3 and 8 years of age must only be able to switch the appliance on and off if it has been positioned or installed in the intended normal operating position and if they have received the instructions on how to operate the appliance safely and understand the dangers involved. Children from the age of 3 years and under must not connect, adjust and clean the appliance or carry out maintenance.
- This appliance can be used by children from 8 years of age and up and by people with reduced physical, sensory or mental abilities or with little experience and knowledge, if they have received under expert supervision instructions on the safe use of the appliance and understand the dangers. Children must not play with the appliance. Cleaning and maintenance of the appliance must not be carried out by children without supervision.
- The appliance is intended exclusively for the purpose described in the operating instructions.
- Do not use the appliance or any part of it outside its intended use to avoid risks.
- The use of accessories not recommended or not sold by the appliance manufacturer may result in the risk of personal injury.
- **CAUTION** - some parts of this product may become very hot and cause burns. Particular attention must be paid to children and vulnerable people.
- Install and operate the heater in a strictly horizontal position on the ceiling or on the structural surface of the ceiling. The thermal resistance of the ceiling cladding and ceiling material must be at least 80 °C.
- **WARNING**: This heater is not equipped with a room temperature control device. This heater must be used in open, outdoor environments or in large rooms with high ceilings.
- The heater must not be placed near to the floor, as severe burns can occur due to high surface temperatures.
- Do not use this heater in small rooms or where the room or area is occupied and by people who unable to leave the room alone, people who are unable to operate the heater safely according to the guidelines in the user manual, unless constant supervision is provided.

HOW TO OPERATE THE HEATER

General Drawing



1. Heater radiant surface
2. Heater operation indicator
3. Brackets for wall or ceiling mounting
4. Power cables and plug.
5. Remote control

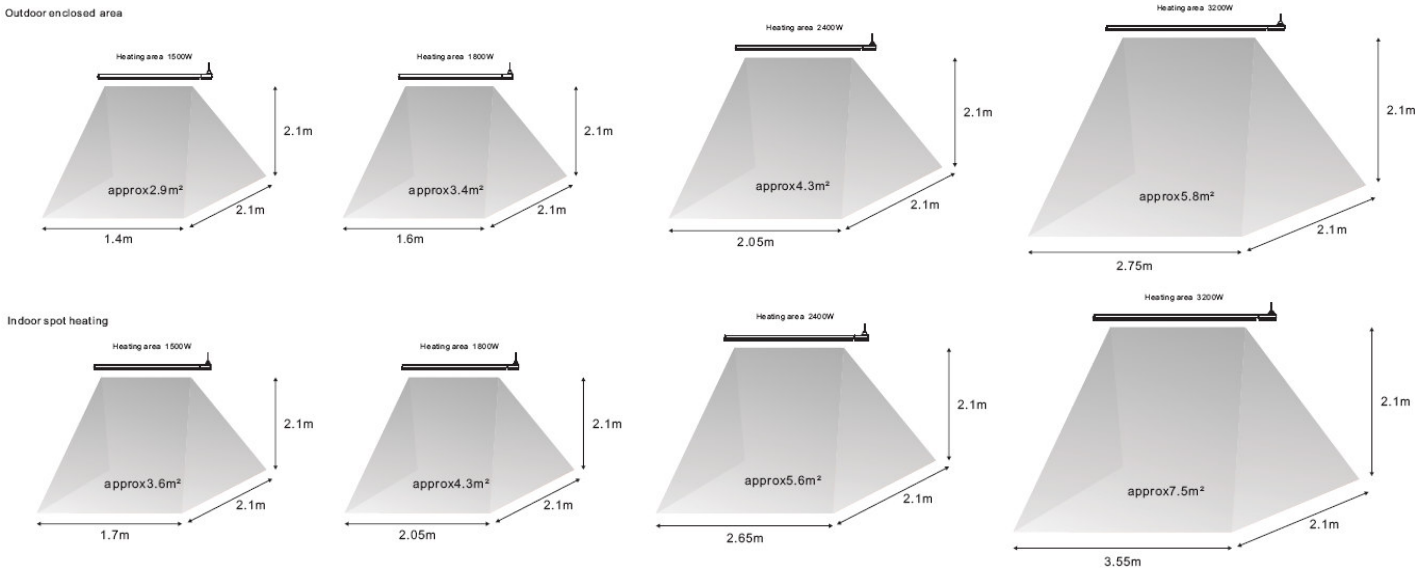
Technical specifications

MODEL NAME	**CALORE-BIANCO/NERO-1500** CH15A7R	**CALORE-BIANCO/NERO-1800** CH18A7R	**CALORE-BIANCO/NERO-2400** CH24A7R	**CALORE-BIANCO/NERO-3200** CH32A7R
Voltage	230-240V~ 50Hz	230-240V~ 50Hz	230-240V~ 50Hz	230-240V~ 50Hz
Rated power (W)	1500	1800	2400	3200
Ideal wall mounting height (M)	1.8- 2.1	1.8- 2.1	1.8- 2.1	1.8- 2.1
Ideal ceiling mounting height (M)	2.1- 2.1	2.1- 2.3	2.1- 2.5	2.1- 2.5
Electrical protection class	I	I	I	I
Splash water protection rate	IP65	IP65	IP65	IP65
Cable length (mm)	1050	1050	1050	1050
Unit size L*W*H (mm)	1045*177*60	1225*177*60	1505*177*60	1915*177*60

Heating area (M2)

The radiator panel heater produces radiant heat that heats objects rather than air. Therefore, it is imperative that the objects to be heated (i.e. people) are inside the surface directly radiated by the heater.

The following diagrams show the approximate heating area based on a closed indoor and outdoor environment. The diagram shows that the maximum heat output is directly below the heater and the temperature decreases as the user moves away from the heater.



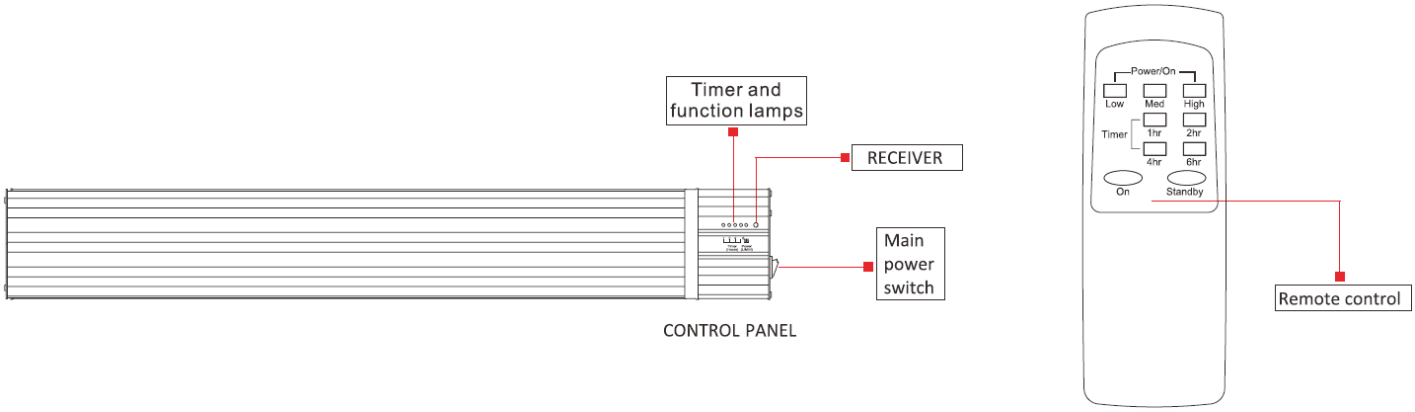
OPERATION

WARNING!

Light crackling can be heard during the heating or cooling period. This is a normal operating noise.

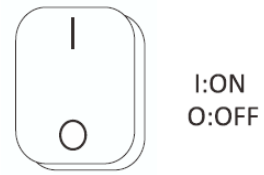
NOTE:

- The discoloration of the paint on the wall of the heater body direct to the ceiling during operation is not a defect. The colour change for the heating plates is not a defect.
- After switching the appliance on for the first time and after long periods of inactivity, the appliance may expel a slight odour for a short period of time. This does not affect the use of the heater.
- To exclude unpleasant burning smells, it is recommended to keep the heater clean by avoiding dust accumulation on it.
- The distance between the heater and the remote control must be less than **3 meters,** and the remote control must point directly at the receiver on the front panel during operation.

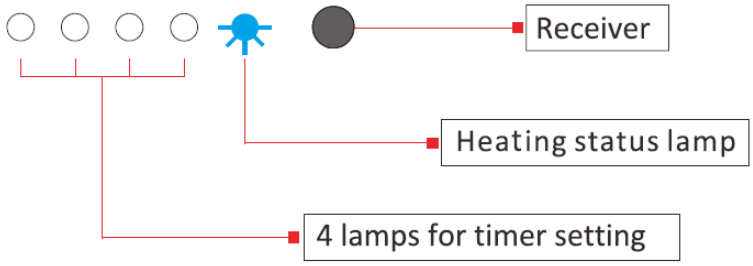


Operations:

1. Insert 2 AAA batteries into the remote control (not included)
2. Plug the power cord of the appliance into the socket and press the Main power switch in position I (figure 1), the appliance emits an acoustic signal, the heating status light turns blue and flashes, the appliance is switched on in standby mode, but does not heat up yet (figure 2).



Picture 1



Picture 2

3. Point the remote control directly at the receiver, press the "ON" button, the device will beep 1 time. The device starts to heat up in high power mode(100% of rated power), the heating status check bulbs will turn red (figure 3).

Picture 3

Press the "standby" button, the unit will emit 1 beep and return to Standby mode, with the blue lamp flashing (figure 4).

Picture 4

4. When the appliance is in heating or standby mode, point the remote control directly at the receiver and press the "low" button, the appliance will beep and start heating in lower power mode (33% of rated power). The heating status light will turn **BLUE (figure 5)**.

Picture 5

5. When the appliance is in heating or stand-by mode, point the remote control directly at the receiver and press the "Med" button, the appliance will emit 1 beep, and start operating in medium power mode (66% of total rated power). The heating mode light will turn **green** (figure 6).

Picture 6

6. When the appliance is in heating or standby mode, point the remote control directly at the receiver and press the "High" button, the appliance will emit 1 beep and start operating in high power mode (100% of the total rated power). The heating mode indicator light will turn red (figure 7).

Figure 7

Timer:

Press the time zone buttons on the remote control (figure 8) to activate the delay switch-off timer.

For example, point the remote control directly at the receiver and press the "1" button, the first bulb on the right will turn white (figure 9), the unit will automatically turn off after 1 hour and return to standby mode. (figure 4).

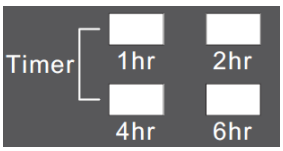


Figure 8

Picture 9:1 hour timer

Press the "2 hr" button to activate the 2 hour timer and press the "4 hr" button to set the 4 hour timer and press the "6 hr" button to set the 6 hour timer (figure 10).

Please refer to the figure below to illustrate the set timer.

Figure 10

First press the "1h" button and then the "2h" button to activate the 3-hour timer (figure 11).

Picture 11

Press the 1h, 2h, 4h and 6h button in order to activate a timer of maximum 13 hours (figure 12).

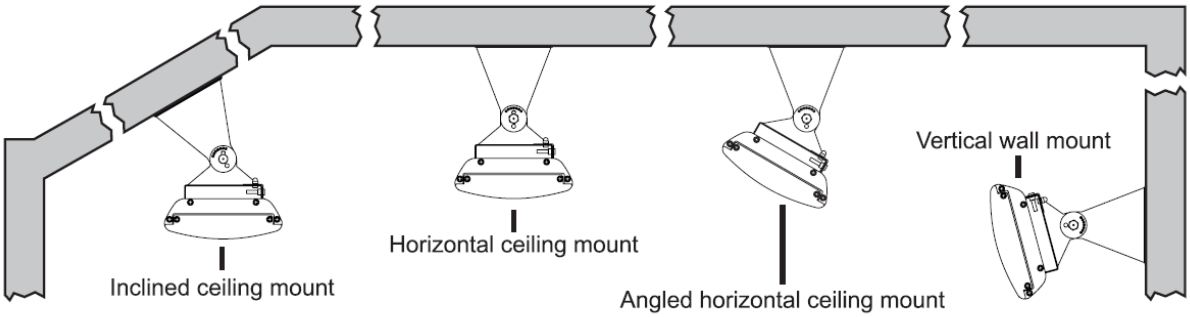
Picture 12

INSTALLATION

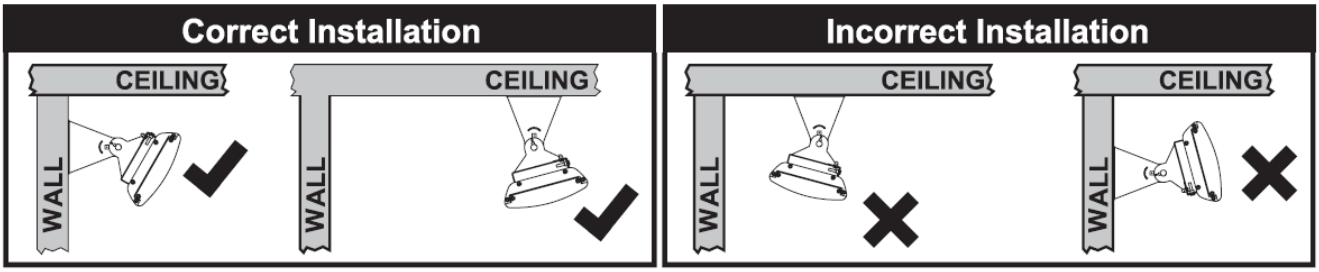
Please read the manual carefully before installation.

The heater must be installed according to the manufacturer's installation instructions

This heater is supplied with a pair of stainless steel adjustable angle mounting brackets. The adjustable angle allows the heater to be installed on vertical, horizontal and inclined surfaces.



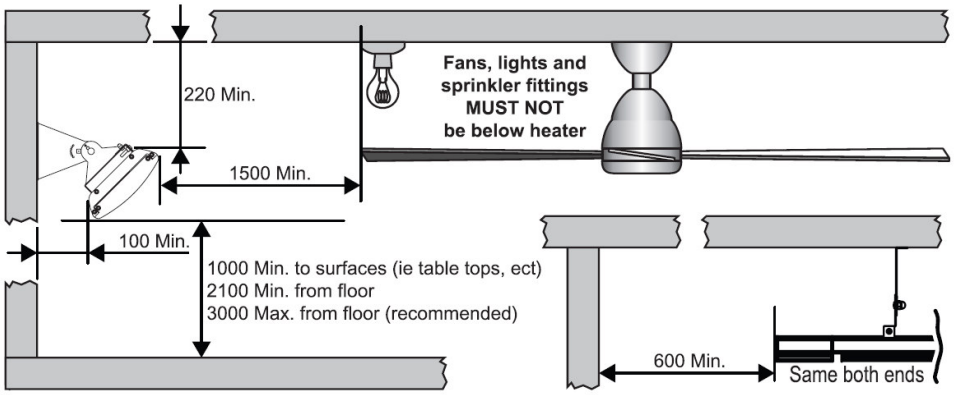
The ideal mounting position is directly above the area to be heated with longitudinal orientation and vertically facing downwards. If this is not possible, the heater(s) can be mounted on a wall and angled downwards.



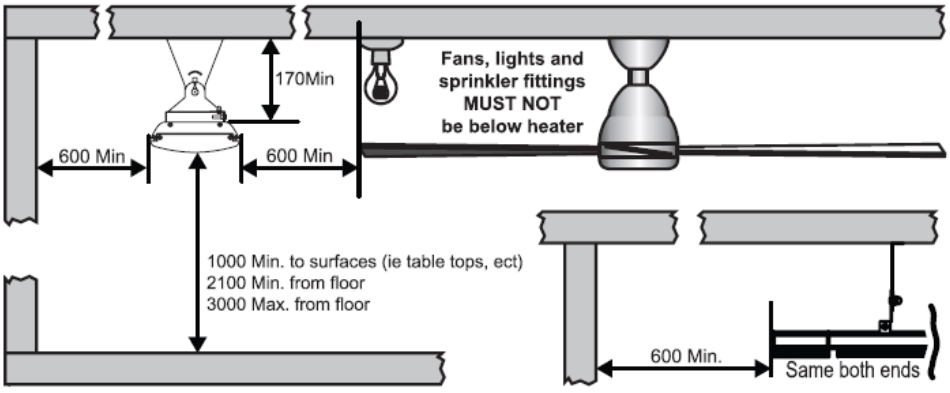
Warning: The heater must never be installed in an upward or inward facing position, the heating surface must always be positioned so that the heat is directed downwards or outwards.

Authorizations

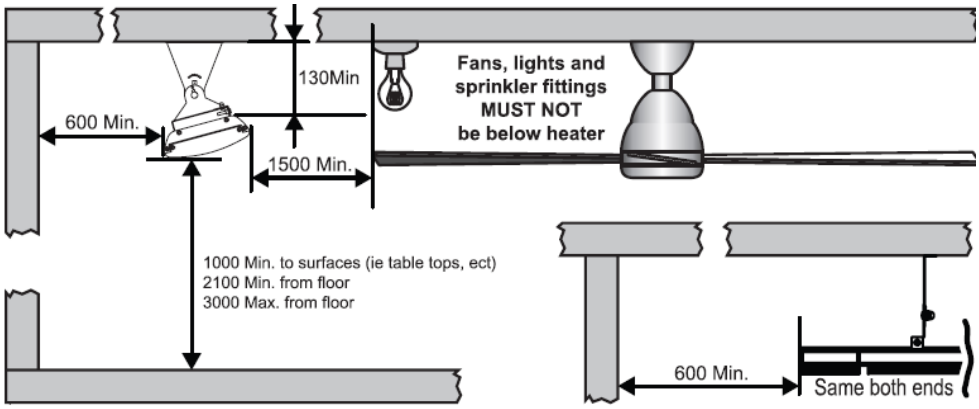
Minimum distances when mounting the heater on A VERTICAL WALL.



Minimum distances for mounting the heater parallel to the ceiling.



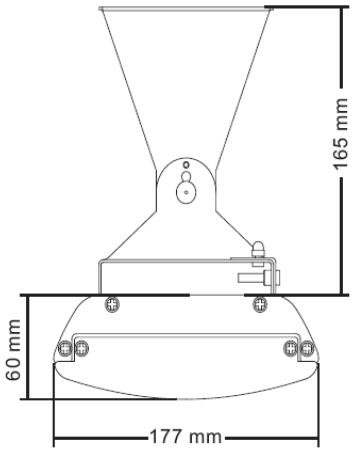
Minimum distances when mounting the heater at an angle to the ceiling.

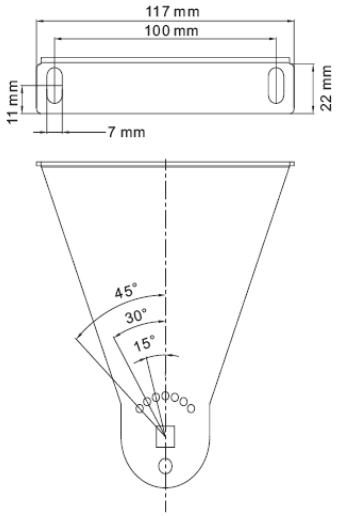


Installation process

WARNING! The installation of the infrared heater and its connection to the power supply must only be carried out by qualified specialists in accordance with the electrical installation regulations and the safety regulations of the power supply system.

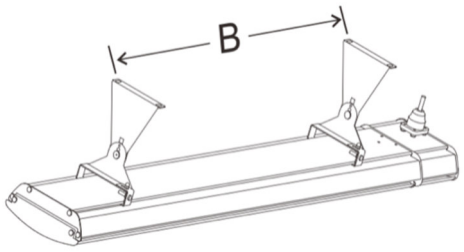
1. Open the factory package and carefully remove the heater.
2. Remove the wrapping paper from the end of the heater.
3. Pull out a pair of mounting brackets. These adjustable brackets allow direct ceiling or wall mounting, and are equipped with preset parallel, 15°, 30°, 45° and 165mm height angle options.





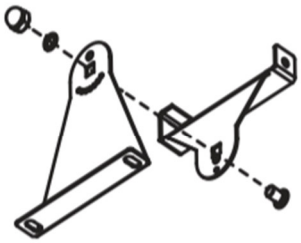
4. The correct installation process, as shown in the diagram above, selects the position of the heater on the ceiling by positioning the structural pivot or beams to ensure a safe fixing of the heater, respecting the minimum distances from the floor and other objections.

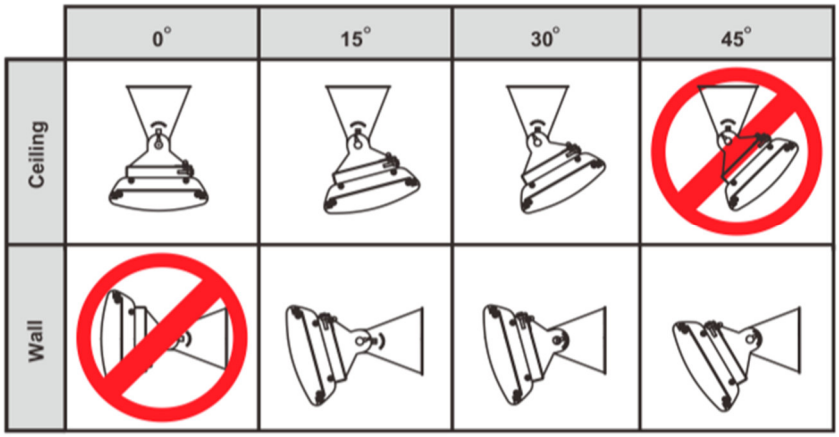
5. Install two ceiling or wall brackets with the following minimum recommended bracket distance "B".



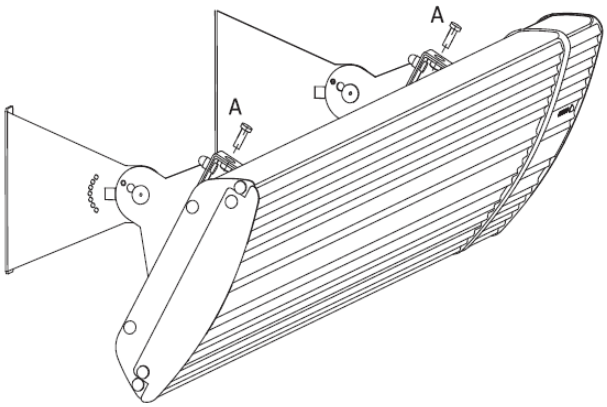
Model no.	""“B” MINIMUM DISTANCE (mm)
1500W	530 ±50
1800W	710 ±50
2400W	990 ±50
3200W	1400 ±50

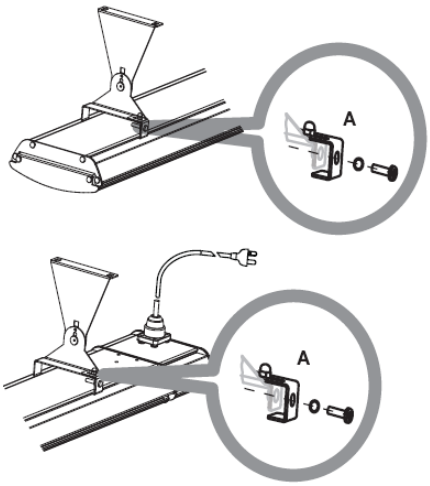
6. Set the adjustable angle mounting brackets to the desired angle and secure the brackets with a spanner.
For ceiling installation, the available mounting angles are limited to 0°, 15° and 30° only.
For wall installation, the available mounting angles are limited to 15°, 30° and 45° only.





7. Hang the heater from the brackets and secure it firmly in place with the mounting bracket locking plates by tightening the bolts.





NOTE:

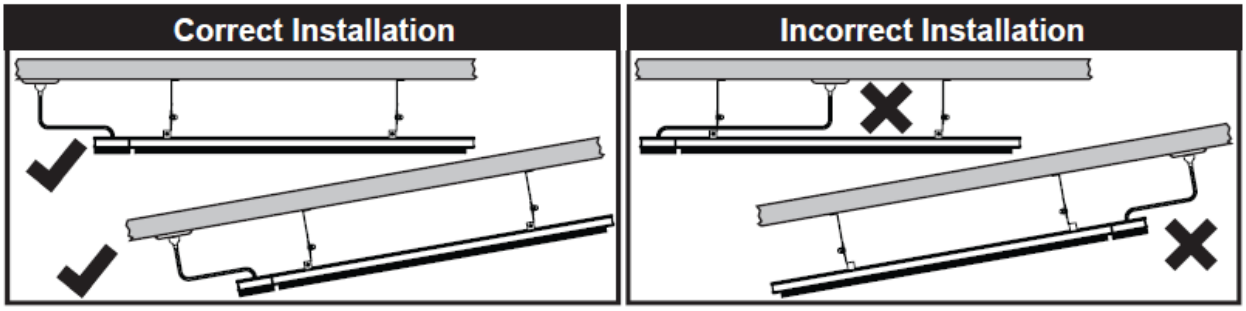
- ✓ Depending on the material and design of the structural elements of the ceiling or wall, the heater must be fixed with the correct fasteners. The weight of the heater is up to 9.5 kg, the installation site must be able to support 5 times the weight of the heater.
- ✓ It is the installer's responsibility to choose the correct wall or ceiling fixing.

Model (power)	1500W	1800W	2400W	3200W
Weight(Kg)	5.3	6.0	7.4	9.4

Mains connection

- The heater is designed for connection to the 230-240V~ 50Hz single-phase mains power supply with grounding
- Before connection, make sure that the specifications of the power grid at the connection point meet the single-phase 230-240V~ 50Hz voltage.
- The mains power supply must be equipped with an automatic circuit breaker with a nominal current of not less than 16A.
- It is strongly recommended to use a switch with an earth circuit.
- The heater must not be placed immediately below the socket. The socket must not be positioned behind the heater. The power outlet must be outside the physical footprint of the heater to minimize heat build-up behind the heater.
- If the heater is to be mounted on a slope (e.g. vaulted ceiling), make sure that the supply point is at the lowest point of the

heater.



MAINTENANCE

- Maintenance should only be carried out by a qualified electrician.
- During operation it is necessary to periodically (once a year) check the electrical cable contacts and terminal connectors for proper tightening.
- If the heater gets dirty, wipe off the dust with a damp cloth, the parts radiants must be cleaned cold with a soft damp cloth.

WARNING!

✓ Never immerse the appliance in water! Danger of death!

TROUBLESHOOTING

The possible malfunctions are shown in the table below.

SYMPTOMS	CAUSE
Does not heat up / No function indicators	Check that the power supply is connected and switched on
The heater smells when it is used for the first time.	This is caused by the oil or dust left over from the production process and will stop after a short period of time.
Weak odour for short periods after the heater is switched on	This is normal and should stop after a short time.
The heater stinks when turned on after periods of inactivity	Formation of debris and dust on the heater, Turn off the heater and let it cool and then clean it
Tinkle noises when the heater is on and after being switched off	These are noises of expansion and contraction of the metal components of the heaters and is normal
Poor heating performance	Exposure to extreme environmental conditions such as strong winds / excessively cold temperatures can lower the heating performance of an outdoor installation. The unit is not installed in the correct position, perhaps too high or the heater is too small for the recommended area.

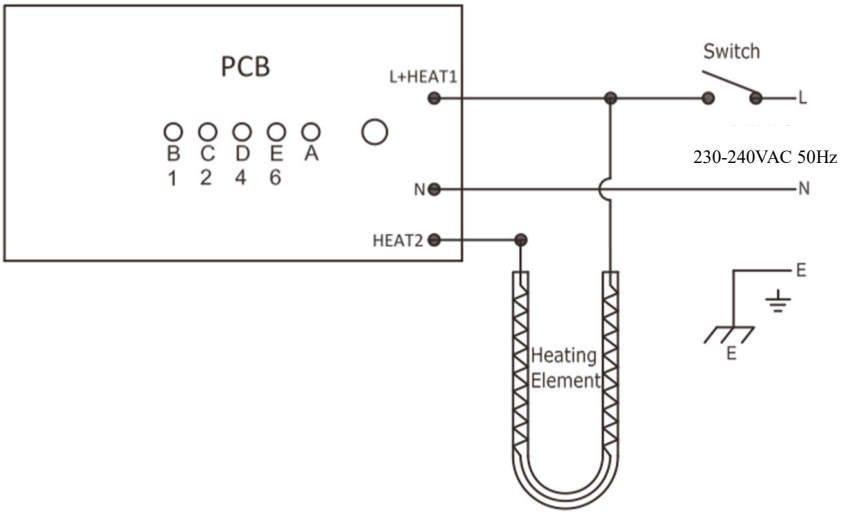
When to contact the service department or authorized seller

There are no user-serviceable parts in this unit, but only an authorized person can service or maintain this unit by a qualified electrician.

SYMPTOMS	CAUSE
There is a burning smell and strange sounds (different from normal expansion and contraction noises) coming from the unit.	Turn off the heater and contact the seller.

When the circuit breaker trips (safety, grounding) or the fuses blow.	Turn off the heater and contact the authorized electrical installer.
Poor heating performance	Installation not correctly dimensioned, contact your authorized electrical installer
	Faulty heating element, switch off the heater and contact the seller
Does not heat up / No function indicators	Check that the power supply is connected and switched on, if still defective, switch off the heater and contact the seller or electrician installer.

WIRING DIAGRAM



Proper disposal of this product

This mark indicates that this product should not be disposed of with other household waste throughout the EU. To avoid possible damage to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the dealer where you purchased the product. They may take this product for environmentally safe recycling.
Batteries must be disposed of in accordance with current regulations.

Production: FOSHAN CITY SHUNDE DISTRICT WARMTEK ELECTRICAL CO., LTD.
Address: N. 302 NINETEEN BUILDING, PHASE 3, RONGLI TIANFULAI INDUSTRIAL PARK,
RONGGUI, SHUNDE, FOSHAN, GUANGDONG, CHINA

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