
INSTALLATION AND OPERATING MANUAL

HEATSCOPE®

SPOT

1600 W / 2200 W / 2800 W



The radiant heat, with a front grille.

Manual control or infrared remote control, depending on model

GB

Radiant Heater

Read before installation and keep with the appliance.

BEFORE YOU START

Your HEATSCOPE SPOT

This manual concerns HEATSCOPE® SPOT heaters with front grille, black (AB) or white (WT) finish. Check the reference on the rating plate to identify your device's control.

Model and power	Control
MHS-SP1600AB / WT - 1600 W	Infrared remote control
MHS-SP2200AB / WT - 2200 W	Infrared remote control
MHS-SP2800AB / WT - 2800 W	Infrared remote control
MHS-SM2800AB / WT - 2800 W	Manual / external

The references in the manual bear the suffix .100. AB and WT refer to the two finishes of the same model.

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01 / SAFETY

Using the heater safely

Respect safety distances, installation instructions and local construction and fire prevention requirements. Keep the manual and transmit it with the device in case of transfer.

During use

The grille and housing become hot during operation. Do not touch the heater during use or for 30 minutes after switching it off. Do not cover it, even partially. The heater has no built-in room thermostat. Continuous supervision is required in a small room occupied by people who cannot leave unaided.

Children and persons in need of supervision

Keep children under the age of 3 away, except under constant supervision. Children aged 3 to 8 can only turn on and off a device properly installed, under supervision or after receiving the necessary instructions and understanding the risks. Children between 3 and 8 years of age must not connect, adjust or clean the appliance or perform maintenance. Children 8 years of age and over, as well as persons with reduced physical, sensory or mental abilities or lack of experience, may use the device under supervision or after receiving instructions for use and safety and understanding the risks. Children should not play with the heater. Cleaning and maintenance should not be carried out by unattended children.

Keep the heater under supervision during operation. After use,
switch it off.

01 / SAFETY

Prepare the apparatus

Checks upon receipt

Check that the heater and its accessories are complete. The housing, reflector, grille, heating elements and cable must be in good condition. The power cord must not be crushed, trapped or damaged. If any part is broken, deformed, cracked or the cable is damaged, leave the unit disconnected and contact Radiant Heater. Label it as defective to prevent it from being switched on again.

Location and clearances

The SPOT is rated IP24. Outdoors, place it under a roof or canopy, or use a suitable weather protection shield to protect the top from rain and dust. Keep textiles and flammable materials at least 150 cm from the heating surface. Do not use the heater to dry textiles or other materials. Keep furniture, curtains, cables and other objects away from the heater. Do not surround it with insulating material, and maintain ventilation around the housing. Do not notch beams or structural components to recess the heater. Follow all dimensions in the diagram for your mounting configuration.

Temperature rise

The SPOT data sheet specifies full power in approximately 15 seconds. The manual states 15 to 30 seconds to reach operating temperature. The front grille can reach 400 °C and the housing 150 °C.

01 / SAFETY

Planning the power supply

Mains supply and protective devices

Before connecting, check that the network voltage corresponds to the rating plate: 220-240 V AC, 50/60 Hz. Provide a disconnection device on all poles, residual-current protection and overcurrent protection. The manual provides a 16 A power supply protected at 16 A, accessible, without any other equipment connected to this source. The circuit and protection characteristics shall correspond to the model, the length of the cables and the installation conditions. Do not place the heater directly under a socket. Keep at least 20 cm between the sides of the heater and an electrical outlet. Cables must never touch the housing or the heating surface.

Wiring for the selected control system

SPOT SM2800 - manual control

4 conductors: L I, L II, N and PE

SPOT SP1600 / SP2200 / SP2800 - infrared

3 conductors: L, N and PE

The supplied cable is 1.1 m long, with 1.5 mm² conductors. Connect it in a suitable IP65 junction box, not supplied. The wiring diagrams are on pages 09 to 12.

Before any intervention

Fully disconnect the power supply before cleaning, adjusting the angle, dismantling or carrying out any work. Wait until the heating elements stop glowing and the heater has cooled, at least 30 minutes after its last use.

01 / SAFETY

Choose a suitable location

Inside and outside covered

The SPOT is attached to the wall or ceiling. Outside, protect the top from the weather, even if the device is resistant to splashing. Keep sufficient air circulation and the clearances indicated in this manual. For a wall installation, respect a height of at least 180 cm. For mounting on the ceiling, hold a height of not less than 220 cm, in accordance with the additional requirement of the manufacturer's manual. The recommended maximum height is 3 m.

Water, salt and chlorine

Avoid rooms with permanently high humidity, such as bathrooms, spas or swimming pools. The minimum distances stated in the manual are 100 cm from a bath or shower and 200 cm from a pool. Controls must remain out of reach of anyone in contact with water. The manufacturer's document states that in a bathroom, at least one heating element must glow visibly as soon as the heater is switched on. Installation in this type of room must meet its specific electrical requirements. Do not install or use the heater in an atmosphere containing chlorine or salt, particularly close to a chlorinated swimming pool or the coast.

Under a glass cover

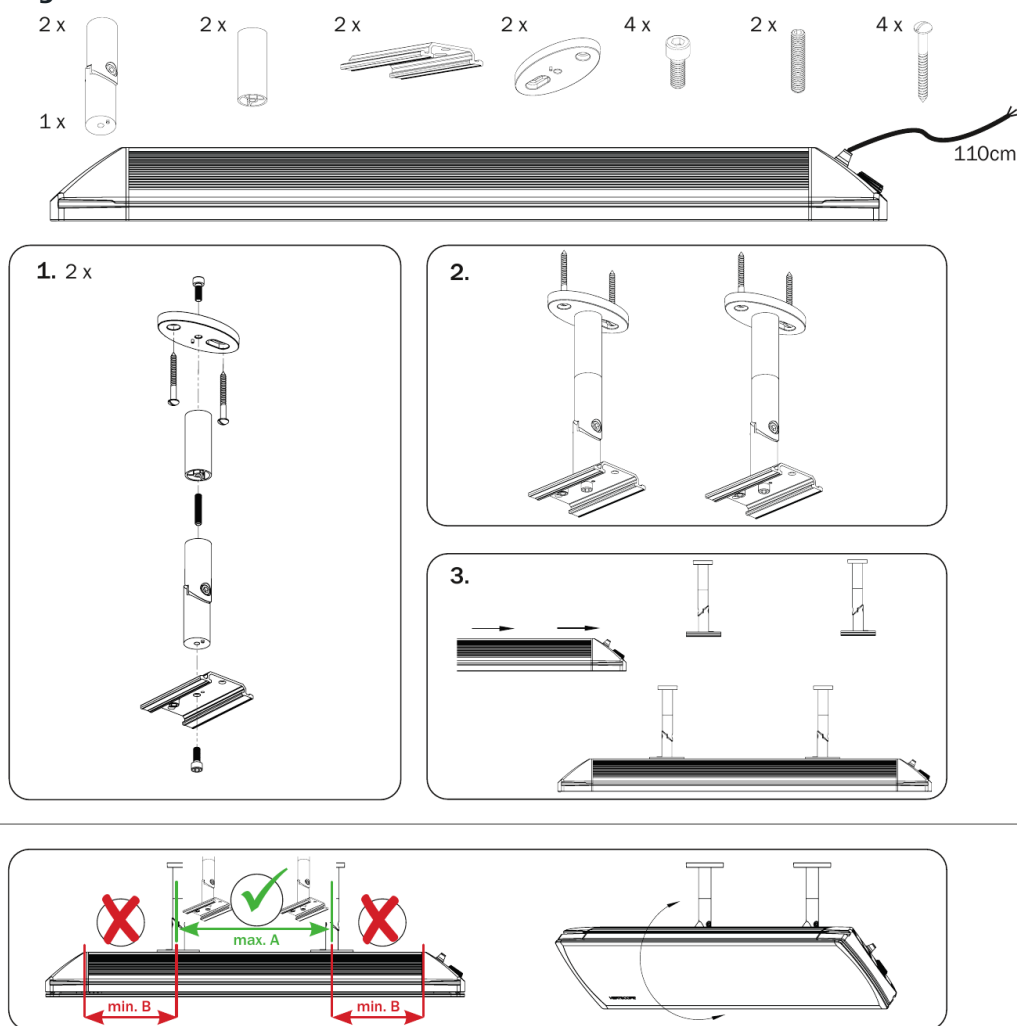
Apply the specific clearances of the diagram on page 19. Local requirements may require additional measures for supports of flammable materials or special configurations.

02 / MOUNTING

Ceiling mounting

Use both mounting flanges and accessories provided or approved. The support shall withstand tensile and shear forces corresponding to three times the weight of the

heater, including accessories.



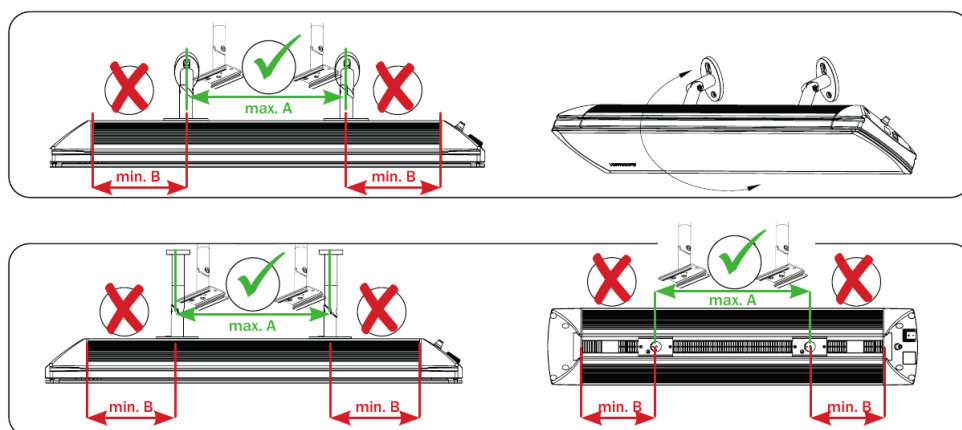
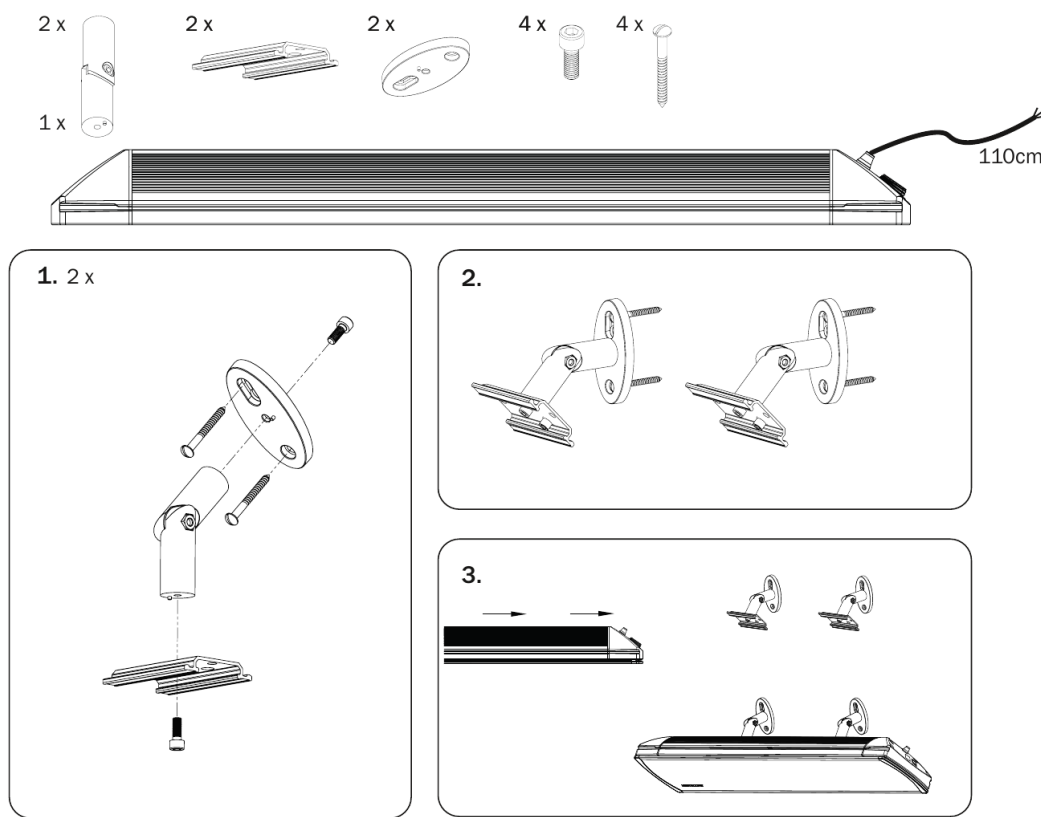
SPOT	A - maximum	B - minimum
1600 W	240 mm	135 mm
2200 W	300 mm	175 mm
2800 W	370 mm	175 mm

Markers A and B correspond to the dimensions of the drawing. Keep both fixing points and the illustrated orientation.

02 / MOUNTING

Wall mounting

Assemble the two flanges in the order indicated. Then adjust the orientation and check the clamping of the assembly. The limits A and B are those in the table on page 07.

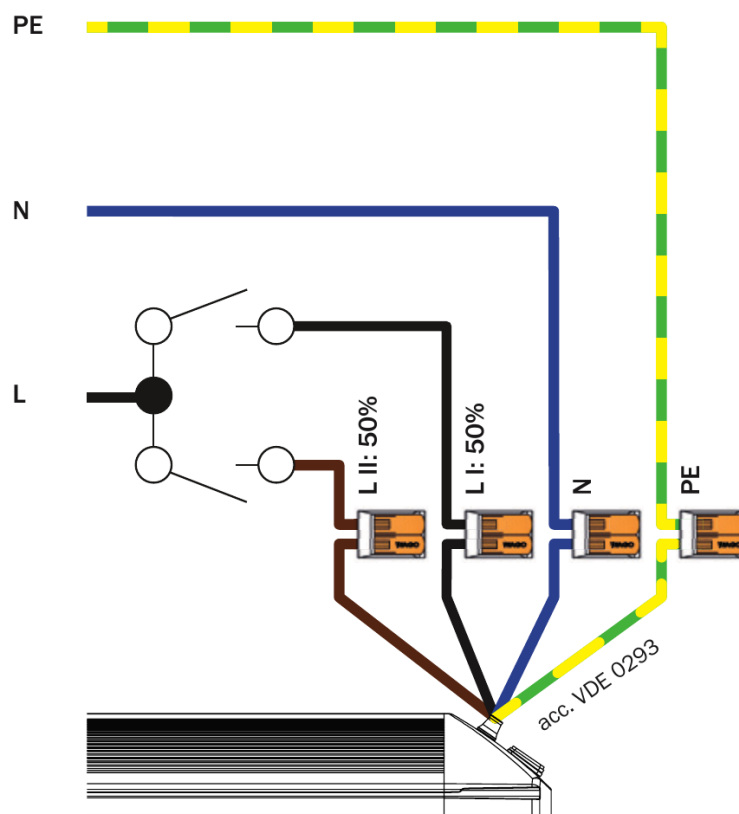


Green ticks refer to positions represented as authorized; red crosses refer to positions to be avoided. Also respect the distances from pages 15 to 19.

03 / ELECTRICAL CONNECTION

Manual control - SM2800

Two phase power supplies control the heating elements, each corresponding to 50% of the power.



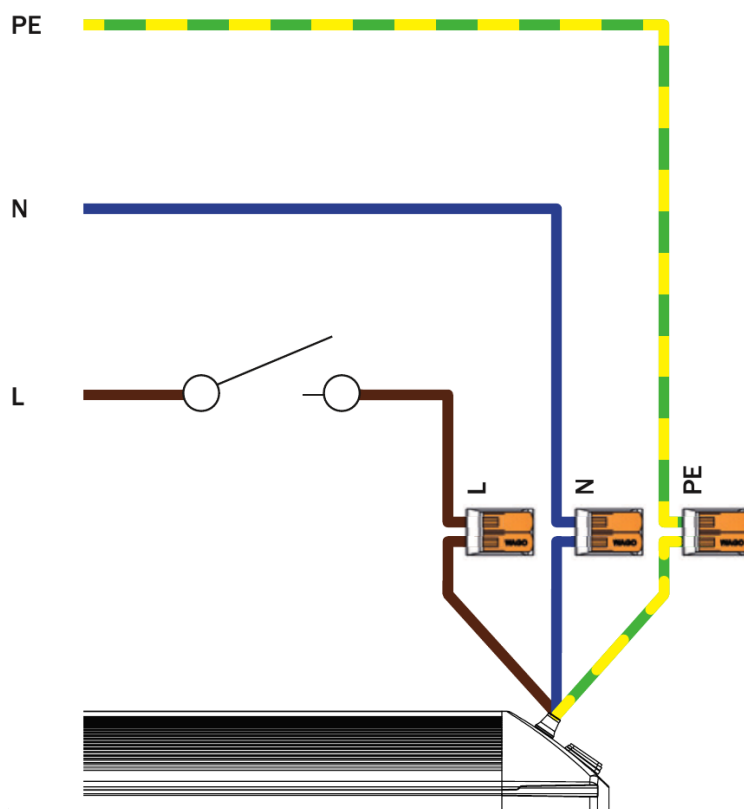
Power supply	220-240 V AC, 50/60 Hz
Cable provided	4 × 1.5 mm ² : L I, L II, N and PE
N	Neutral
PE	Protective conductor (earth)

Provide separation and protection devices on the installation side. Make connections in a suitable IP65 housing. The colours and markers of the HEATSCOPE diagram are preserved.

03 / ELECTRICAL CONNECTION

Infrared control - SP series

The control for both levels of power is integrated into the heater; the power supply consists of a phase, a neutral and the earth.



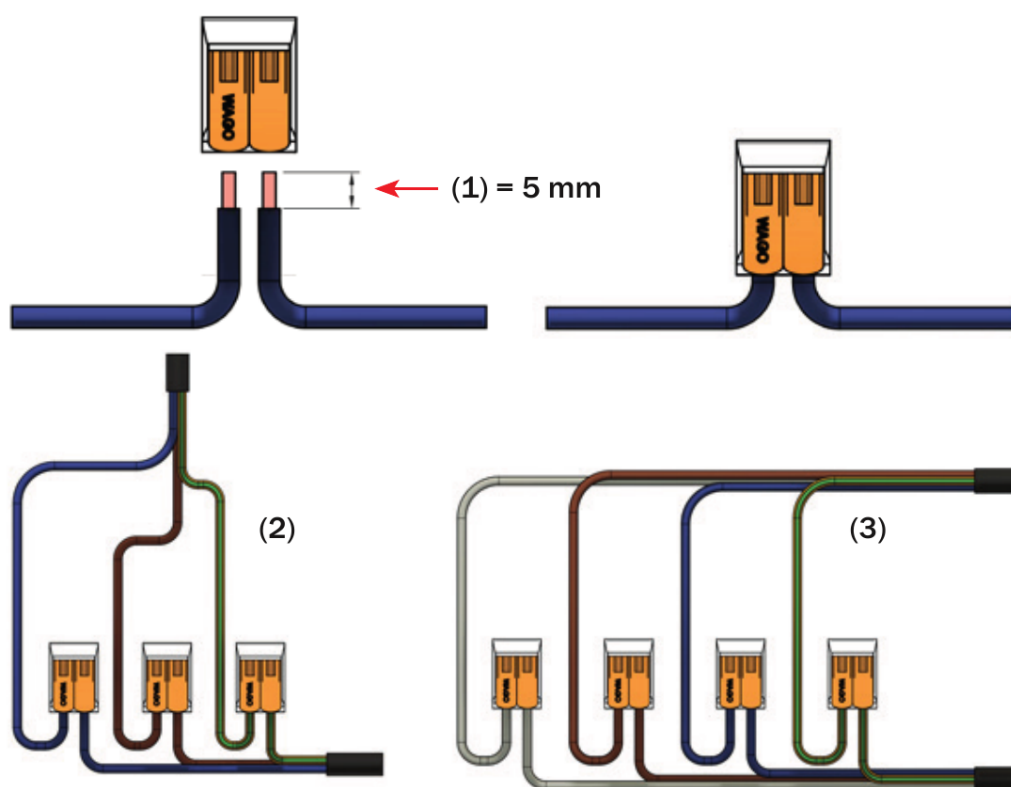
Power supply	220-240 V AC, 50/60 Hz
Cable provided	3 × 1.5 mm ² : L, N and PE
N	Neutral
PE	Protective conductor (earth)

Provide separation and protection devices on the installation side. Make connections in a suitable IP65 housing. The colours and markers of the HEATSCOPE diagram are preserved.

03 / ELECTRICAL CONNECTION

Make reliable connections

The drawings below illustrate the terminals and assemblies presented in the HEATSCOPE manual. Use the terminals suitable for electrical wires and follow their preparation and clamping instructions.



1 Example preparation using a ferrule; the manufacturer's drawing specifies 5 mm.

2 Connection of the 3-wire version with infrared remote control.

3 Connection of the manual version to 4 electric wires.

Check each connection

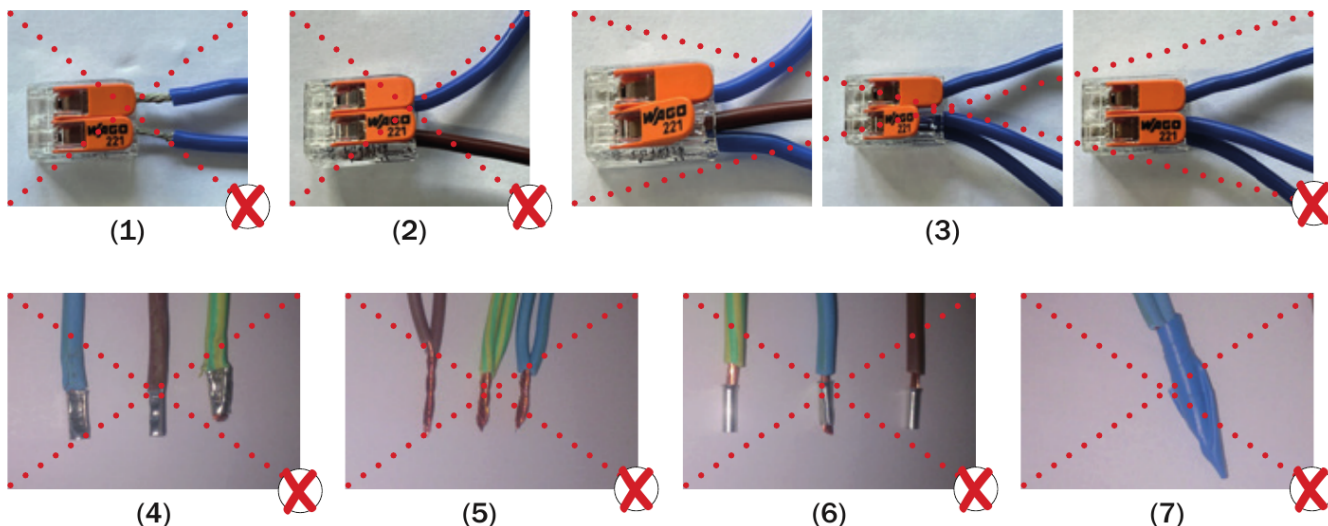
Each conductor must be properly inserted and secured. Insulation must remain outside the contact area. Check that the conductors are held securely, that the markings are correct and that the terminals are closed before switching on the power.

The manual illustrates a WAGO 221-412, 0.14-4 mm² terminal. The instructions of the terminal actually used determine the preparation of the electrical wire.

03 / ELECTRICAL CONNECTION

Points to be checked on wiring

Examples marked with a cross show the connections to be corrected before any energizing.



1	Damaged insulation or insufficient spacing.
2	Different conductors trapped together
3	Too many conductors or an incorrectly closed terminal
4	Terminal clamped onto the insulating sheath
5	Strands twisted by hand without a suitable connector
6	Conductor insufficiently secured in the connection
7	Strands twisted together and covered only with insulating tape

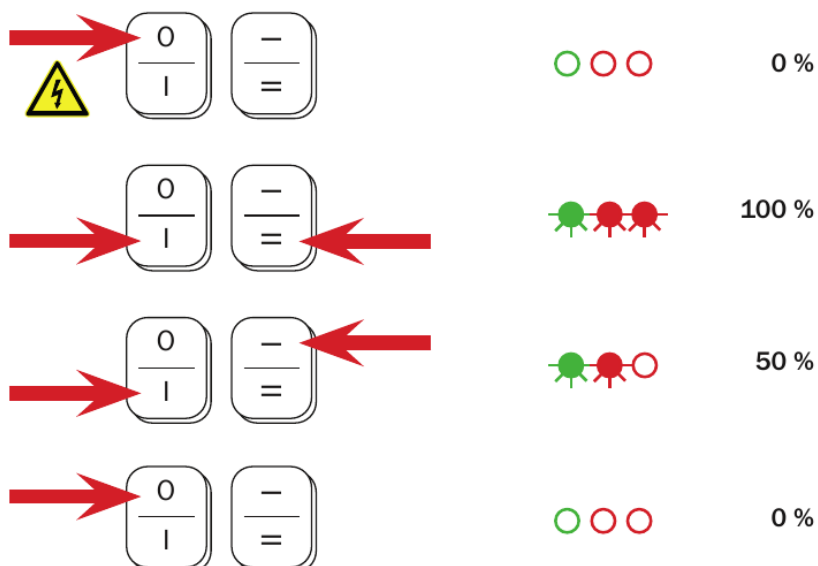
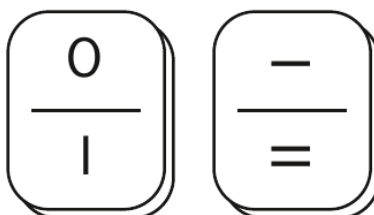
A correct connection maintains insulation, holds the conductor securely and minimises contact resistance.

04 / OPERATION

Manual control - SM2800

The main switch turns the heater on. The selector allows you to choose the **half power (50%) or full power (100%)**.

LED:



Off	0 W
50 %	1400 W
100 %	2800 W

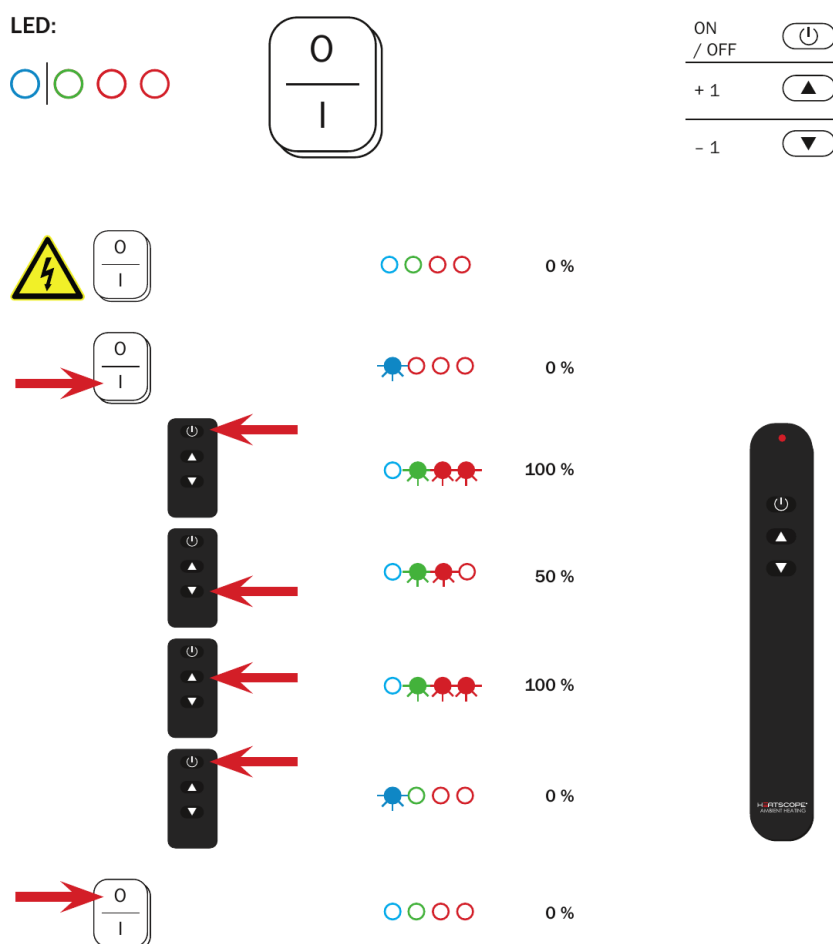
External control

The SM2800 can be used with an external control system compatible with its four-wire connection. Switch the heater off after use.

04 / OPERATION

Infrared remote control - SP series

First put the heater main switch on I. Direct the remote control to the device; the keys allow ignition and shutdown, as well as the selection of 50% or 100%.

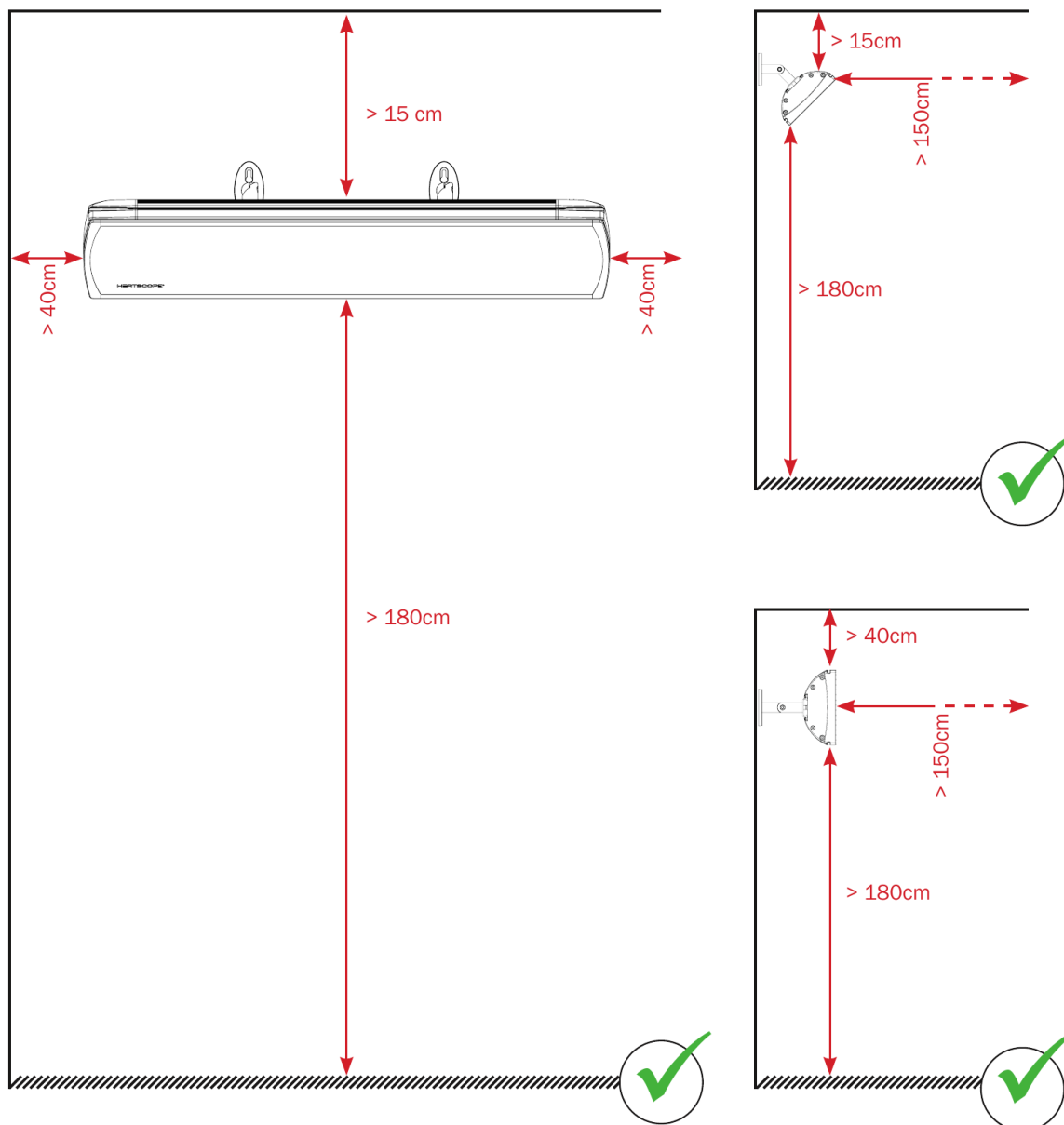


ON/OFF	Switching on and off with the remote control
+1 / -1	Change in power level
50 %	800 W / 1100 W / 1400 W, according to model
100 %	1600 W / 2200 W / 2800 W, according to model

The infrared control refers to SP1600, SP2200 and SP2800 references. Turn off the main switch after use.

05 / SAFETY CLEARANCES

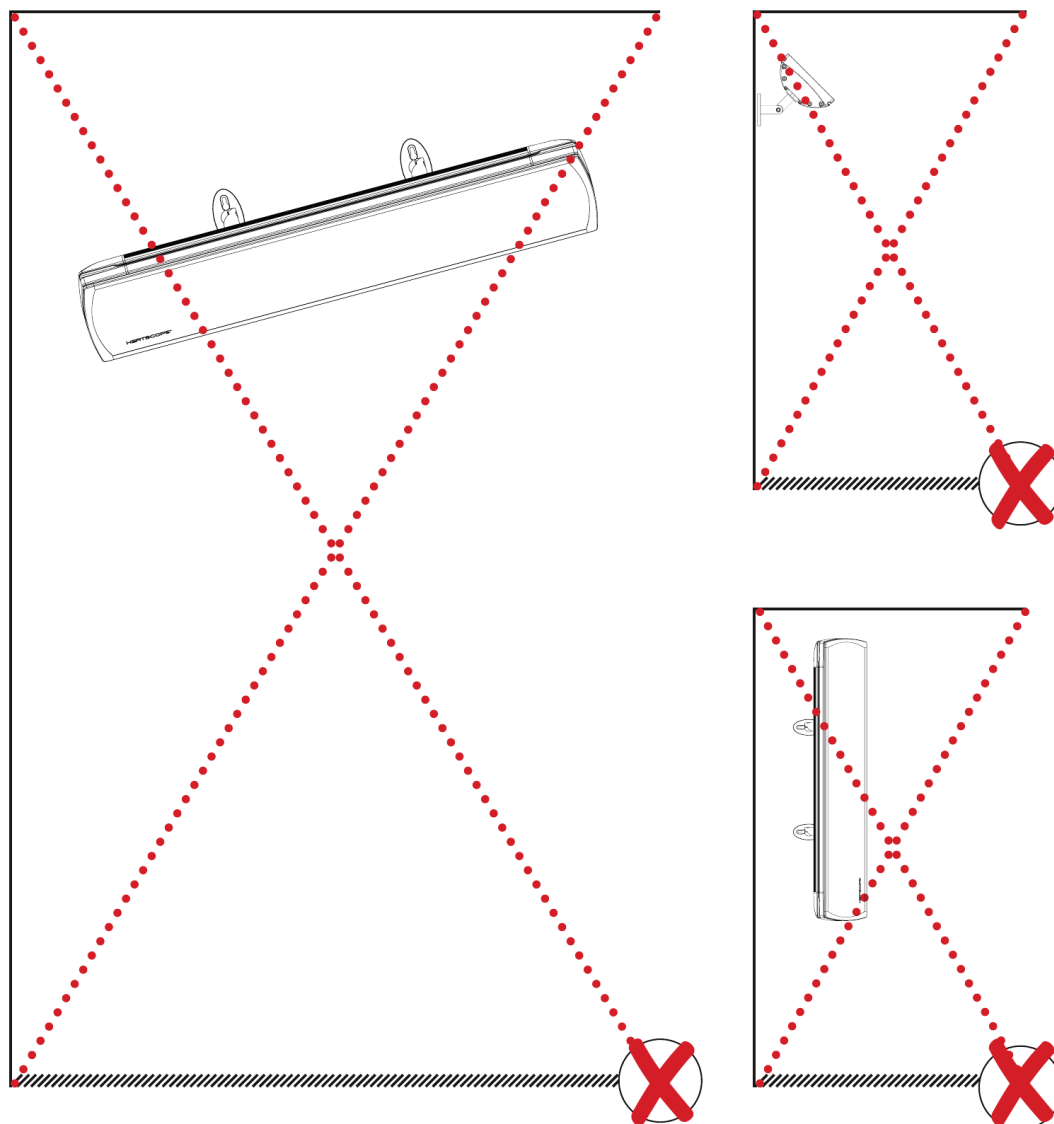
Wall installation - distances



Keep the clearances of the drawing: height greater than 180 cm, distance to the ceiling greater than 15 cm, lateral clearances greater than 40 cm and frontal distance greater than 150 cm, depending on the configuration shown.

05 / SAFETY CLEARANCES

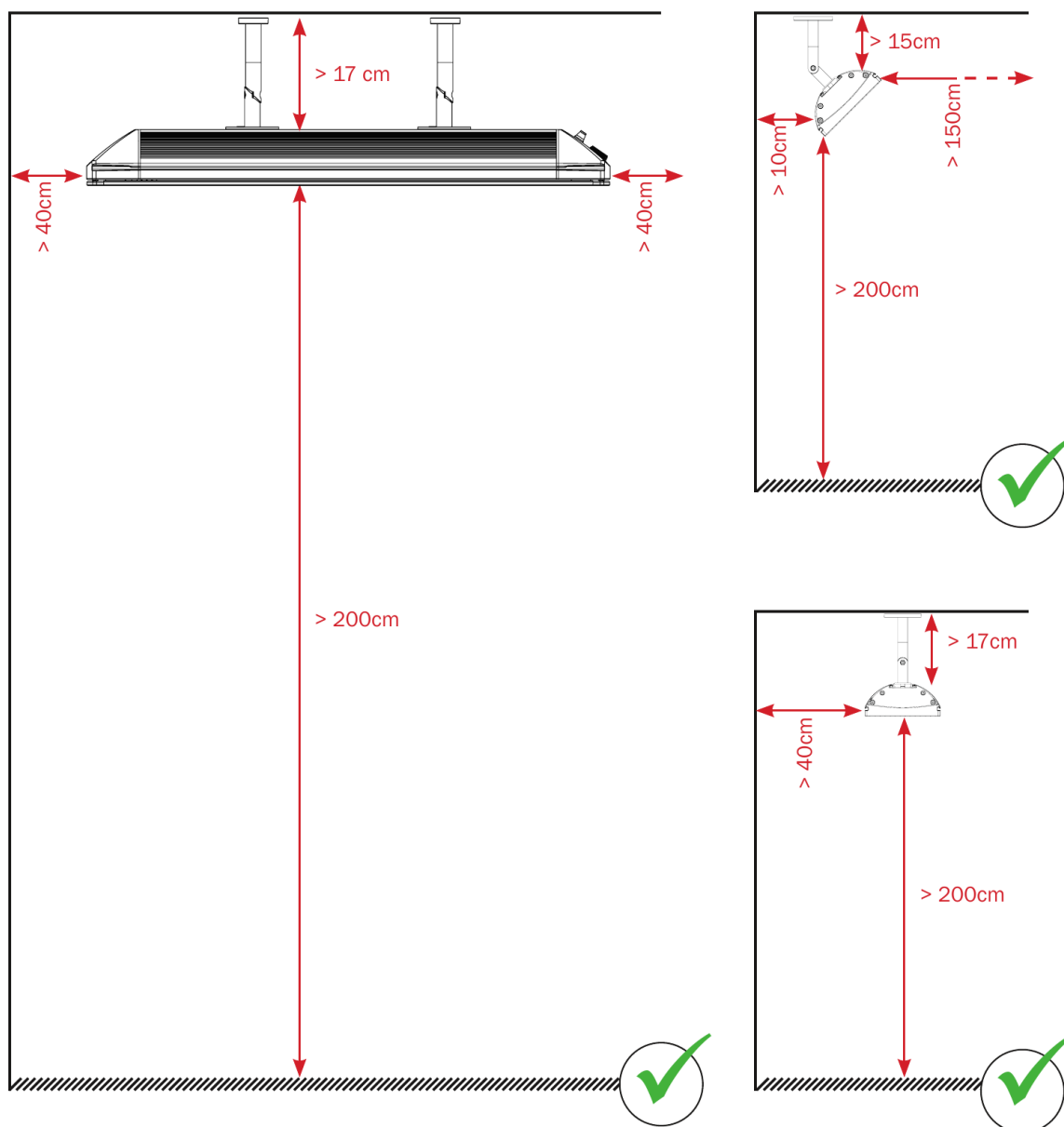
Wall installation - orientations



The configurations marked with a cross are not suitable. Keep a position and orientation consistent with the drawing on the previous page.

05 / SAFETY CLEARANCES

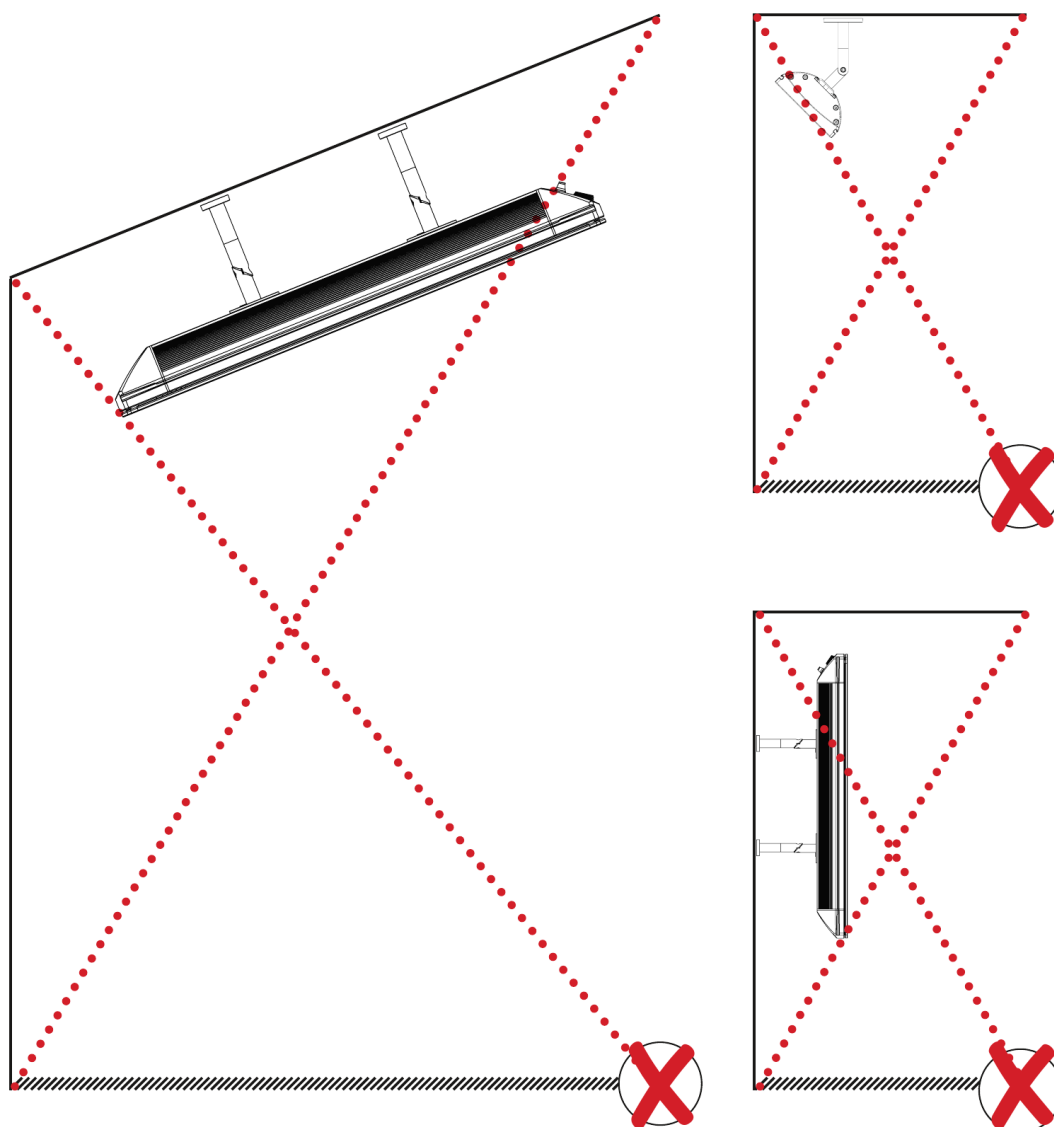
Ceiling mounting - clearances



The figure is $> 200\text{ cm}$. The additional prescription in the HEATSCOPE manual requires at least 220 cm for a ceiling installation: hold this height of 220 cm . Also respect all other dimensions of the drawing.

05 / SAFETY CLEARANCES

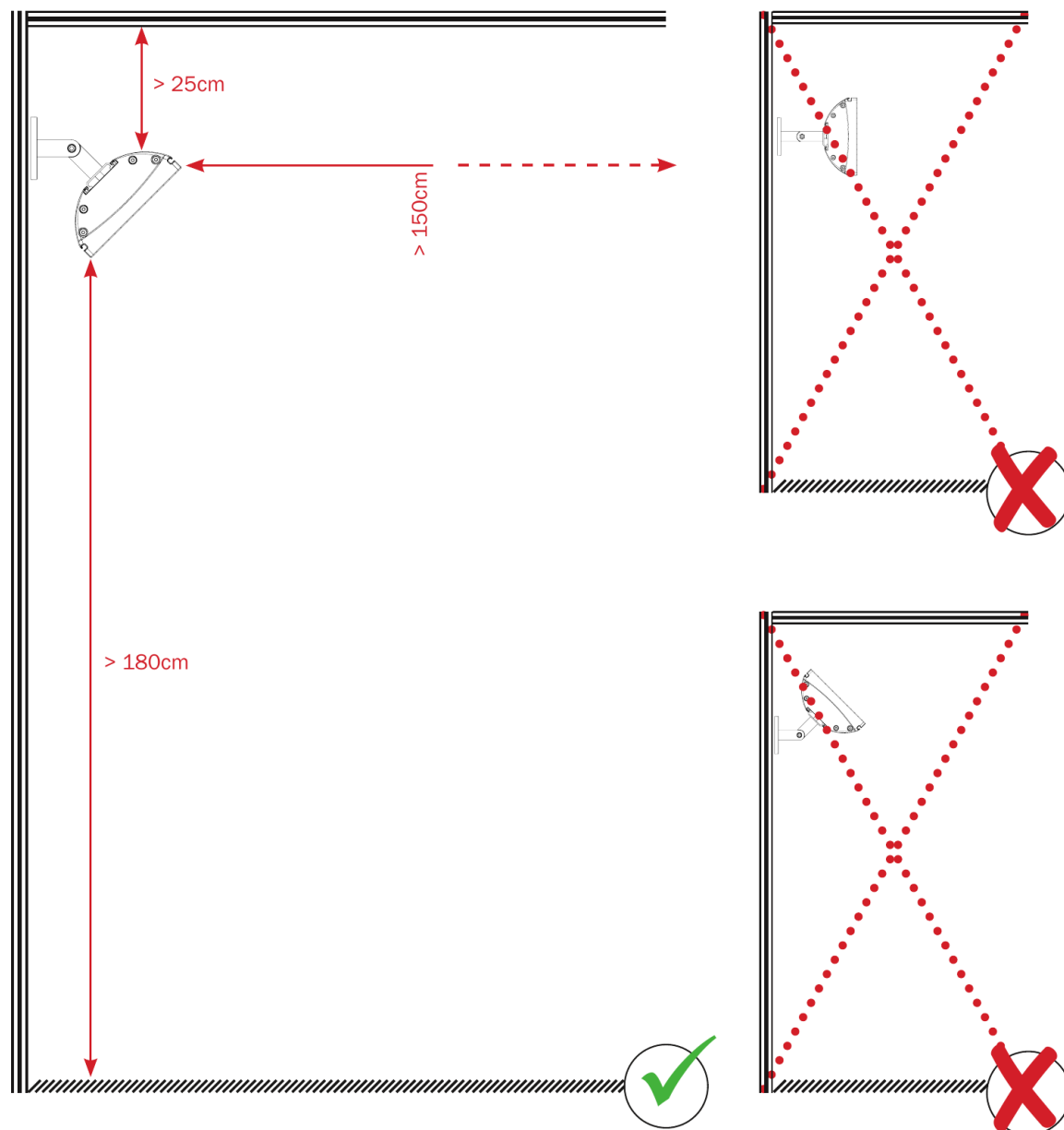
Ceiling mounting - orientation



Configurations marked with a cross are unsuitable. Maintain ventilation and clearances along the heater's entire length.

05 / SAFETY CLEARANCES

Under a glass cover



Under a glass cover, keep the distances represented: >25 cm under the glass, >150 cm in front of the heater and >180 cm for wall installation. For mounting on the ceiling, apply the minimum height of 220 cm.

06 / COMMISSIONING

Check, turn on, adjust

Before the first ignition

Unpack the heater carefully without using a sharp object. Check the accessories and the condition of the unit. Wipe the surfaces with a soft, slightly damp cloth and leave them to dry. Check both mounting brackets, the tightness of the fixings, orientation, safety distances, ventilation, electrical connection and protective devices. The mains voltage must match the rating plate. These instructions apply to standard models. For a special version or a different configuration, check the requirements for that particular unit.

Heat adjustment

Select 50% or 100% depending on your need. Comfort depends on height, orientation, wind exposure and the environment. Stop the heater after use.

Thermal protection

The manual describes an NTC temperature control and a thermal limiter. If the temperature of the electronic control exceeds 103 °C, an element may stop temporarily and restart after cooling. If the limiter triggers, completely shut off the power supply and allow the heater to cool down. Check the ventilation and remove any obstacles to radiation. On versions equipped with lights, two flashing red lights can signal this stop. If the stop is repeated or the lights continue to flash, keep the device switched off and contact Radiant Heater with its reference and serial number.

07 / TECHNICAL DATA

The three SPOT powers

Power at 230 V	1600 W	2200 W	2800 W
Current	6,96 A	9,57 A	12,17 A
Dimensions L x l x H	670 x 184 x 78 mm	810 x 184 x 78 mm	884 x 184 x 78 mm
Weight	4,0 kg	4,5 kg	5,0 kg
References	SP1600	SP2200	SP2800 / SM2800
Power supply	220-240 V AC, 50/60 Hz		
Cable provided	1.1 m - 3 or 4 x 1.5 mm ² according to control		
Power levels	Off / 50% / 100%		
IP rating	IP24 - weather protected top		
Recommended height	1.8 to 3 m; ceiling mounting: minimum 2.2 m		
Front grille / housing	Maximum 400 °C / 150 °C		
Filament temperature	1200-1300 °C (SPOT data sheet)		
Colour temperature	1550-1650 K		
Time to full power	Approximately 15 seconds (SPOT data sheet)		
Visible light	Less than 600 lumens		
Accessories included	Wall and ceiling mountings		
Finishes	AB : black / WT : white		

Specifications come from the HEATSCOPE SPOT manual and data sheet. The reference and values on the rating plate identify your heater.

08 / MAINTENANCE

Protecting your SPOT

Cleaning

Cut the entire power supply and wait at least 30 minutes. Clean only when the heater is cooled. Use a soft, slightly damp cloth for surfaces and a very soft cloth or a soft brush for reflector and heating elements. Do not use alkaline products, sodium hydroxide, soap, surfactants, solvents or alcohol. Do not change the heating elements or the housing.

Manufacturer's warranty

The HEATSCOPE manual describes a 24-month manufacturer's warranty from purchase.

Keep the invoice with the date, model and serial number. For a request for support, contact Radiant Heater with proof of purchase and a description of the defect. We will inform you of the procedure and the conditions for return. Use packaging suitable for transport. The manufacturer's warranty shall apply under the conditions of the manufacturer, in particular for compliant use and an unmodified device. Wear parts and damage due to non-recommended accessories or incorrect use are excluded. A repair or replacement retains the original purchase date.

End of life

Disconnect the device, identify it as out of service and prevent it from being turned on again. Place it in the collection and recycling of electrical equipment. Recycle the packaging in the appropriate channel.

09 / INDOOR CONTROL

Control and programming

The SPOT is delivered without integrated thermostat. For indoor use, the manual presents SM2800 with a compatible thermostatic control, including the optional DEVIreg™ Smart thermostat. This association concerns the manual version with four electric wires.

Functions of the control presented

Ambient temperature measurement	Yes
Weekly programming	Yes
Window opening detection	Yes
Remote thermostat control	Yes
Limiting the operating time	Yes
Presence detection	No
Adaptive start	No

SM2800 specifications in the manual

Nominal thermal power	2,8 kW
Minimum thermal power	1,4 kW
Maximum continuous power	2,8 kW
Auxiliary consumption	Not applicable in the manual

The choice and settings of the control shall correspond to the apparatus, indoor use and applicable requirements. To verify the compatibility of equipment, contact Radiant Heater.

CONTACT / SUPPORT

Your contact

Radiant Heater

For a question of installation, control, compatibility or after-sales service, indicate the exact reference and serial number of the heater. For a warranty request, attach the invoice and a description of the defect.

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radiant-heater.com/contact

Find the products on our website

Heatscope Spot 1600 W – All Black – Remote control

Heatscope Spot 2800 W – All Black – Remote control

Heatscope Spot 1600 W – White – Remote control

Heatscope Spot 2200 W – All Black – Remote control

Heatscope Spot 2800 W – All Black – Manual

Heatscope Spot 2200 W – White – Remote control

Heatscope Spot 2800 W – White – Remote control

Heatscope Spot 2800 W – White – Manual