Original instructions

Relax Glass / Relax Glass Dimmer



EN ... 8

SE ... 13

NO ... 18

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ES ... 34

NL ... 39

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Technical specifications

Relax Glass / Relax Glass Dimmer IP65

	Heat output [W]	Voltage [V]	Installation alternatives	Min. installation height [m]	Max. filament temperature [°C]	WxHxD [mm]
IHRGD15xx	1500	230-240V~, 50Hz	Wall/Ceiling	1,8	2100	900x80x170
IHRGD18xx	1800	230-240V~, 50Hz	Wall/Ceiling	1,8	2100	900x80x170
IHRGD22xx / IHRG22xx	2200	230-240V~, 50Hz	Wall	2,1	2100	900x80x170
IHRGD30xx / IHRG30xx	3000	230-240V~, 50Hz	Wall/Ceiling	2,1	2100	1286x80x170

EN: Heat output
SE: Värmeeffekt
NO: Varmeeffekt
DE: Heizleistung
RU: Тепловая мощность
FR: Puissance
ES: Potencia calorífica
NL: Verwarmingscapaciteit
PL: Moc grzewcza
IT: Potenza termica
FI: Lämmitys teho
DK: Varmeydelse

EN: Voltage
SE: Spänning
NO: Spenning
DE: Spannung
RU: Напряжение
FR: Tension
ES: Tensión
NL: Voltage
PL: Napięcie
IT: Tensione
FI: Jännite
DK: Spænding

EN: Installation alternatives
SE: Installationsalternativ
NO: Installasjonsalternativer
DE: Installationsalternativen
RU: Альтернативные варианты установки
FR: Autres installations possibles
ES: Alternativas de instalación
NL: Alternatieven voor installatie
PL: Opcje instalacji
IT: Alternative di installazione
FI: Asennusvaihtoehtoja
DK: Installationsalternativer

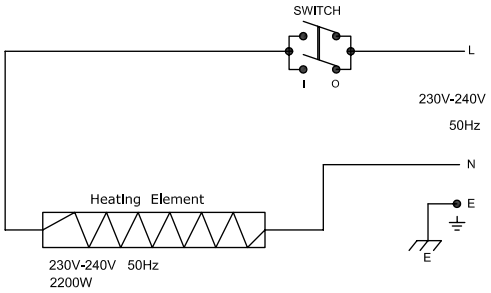
EN: Wall/Ceiling
SE: Vägg/Tak
NO: Vegg/Tak
DE: Wand/Decke
RU: Стена/Потолок
FR: Mur/Plafond
ES: Pared/Techo
NL: Muur/Plafond
PL: Ściana/Sufit
IT: Muro/Soffitto
FI: Seinä/Katto
DK: Væg/Loft

EN: Wall
SE: Vägg
NO: Vegg
DE: Wand
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FR: Mur
ES: Pared
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IT: Muro
FI: Seinä
DK: Væg

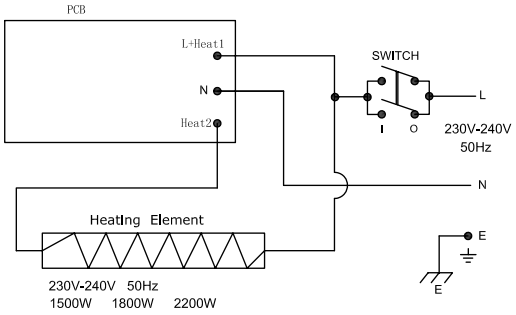
EN: Min. installation height
SE: Min. installationshöjd
NO: Min. installasjonshøyde
DE: Min. Montagehöhe
RU: Мин. высота установки
FR: Hauteur d’installation minimale
ES: Altura mínima de instalación
NL: Min. installatiehoogte
PL: Min. wysokość montażu
IT: Aaltezza minima di installazione
FI: Min. asennuskorkeus
DK: Min. installationshøjde

Schaltbild - Wiring diagrams - Schémas de raccordement - Schemi elettrici - Esquemas del cableado - Bedradingsschema's – Kopplingsschema – Koblingsskjemaer – Koblingsskema – Kytkentäkaaviot - Schematy połączeń - Электросхемы

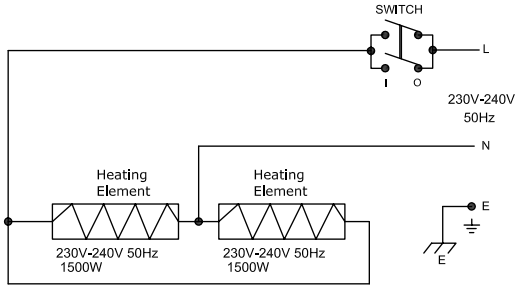
IHRG22xx



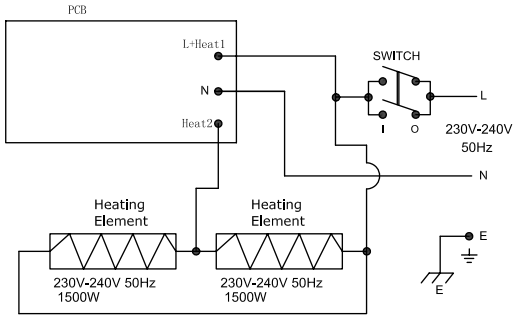
IHRGD15xx, IHRGD18xx, IHRGD22xx



IHRG30xx



IHRGD30xx



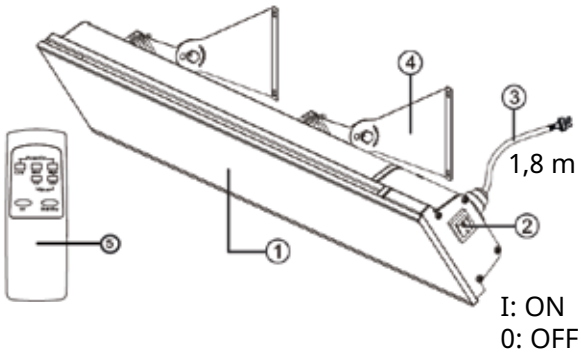


Fig. 1

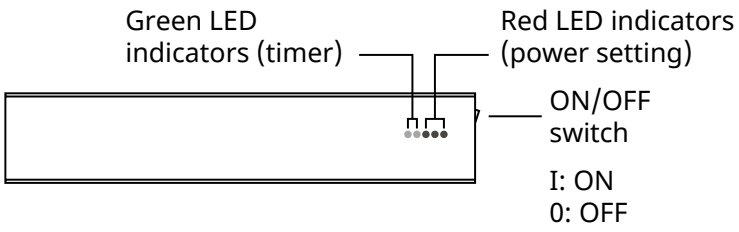


Fig. 2: Relax Glass Dimmer

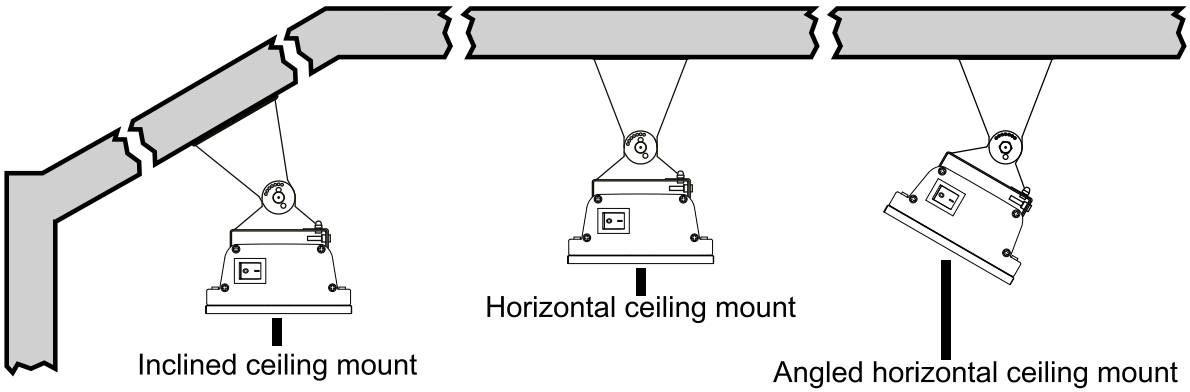


Fig. 3

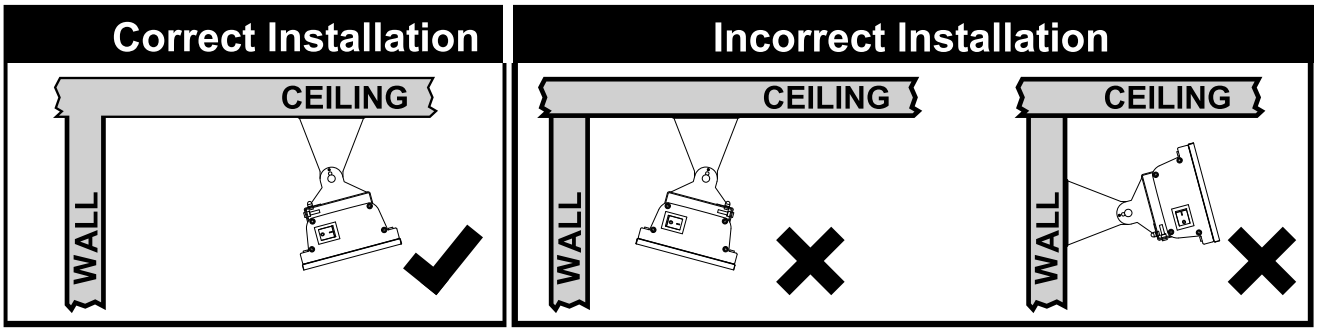


Fig. 4

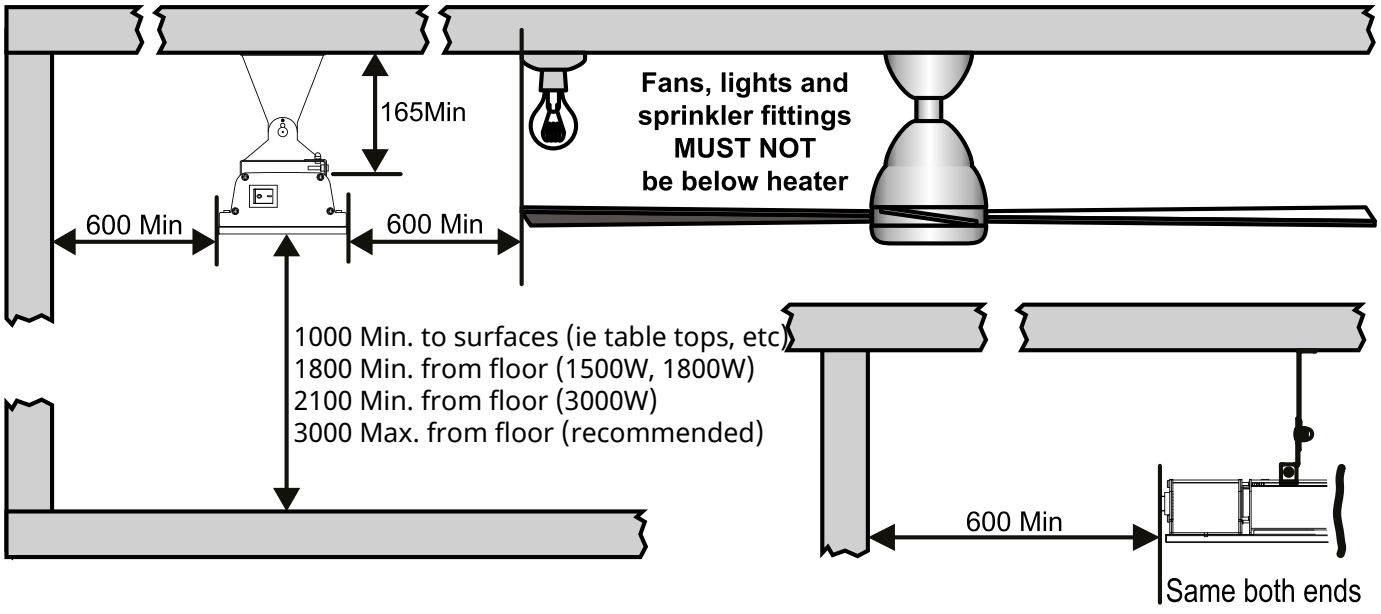


Fig. 5

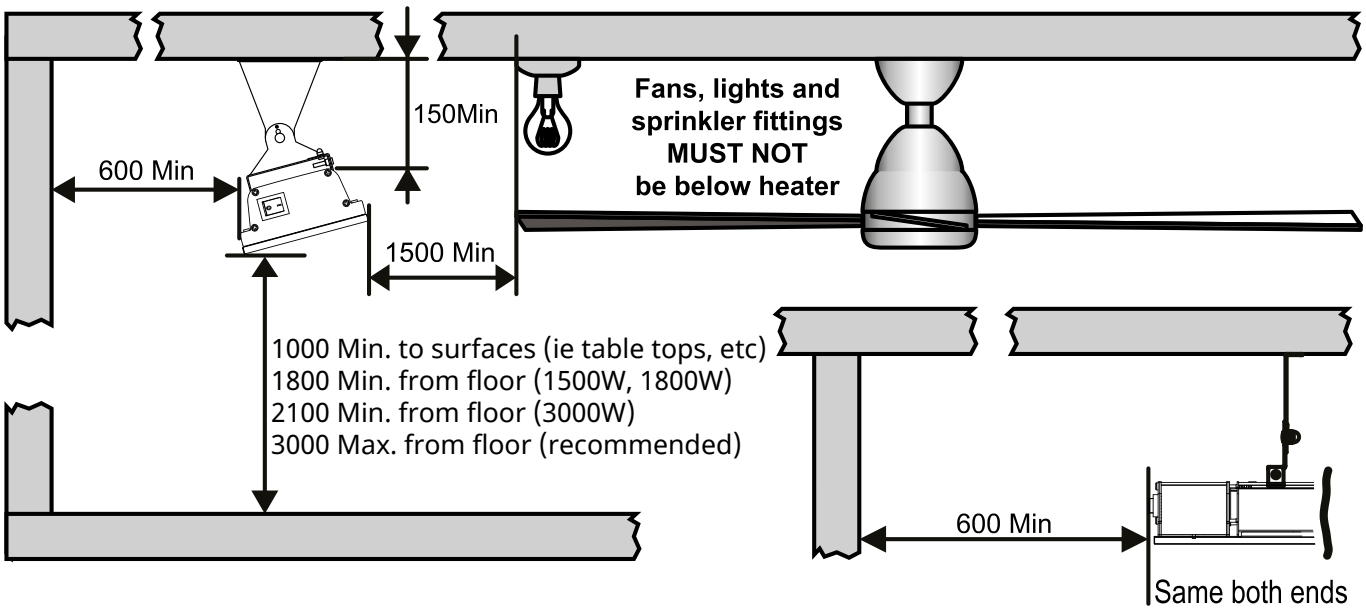


Fig. 6

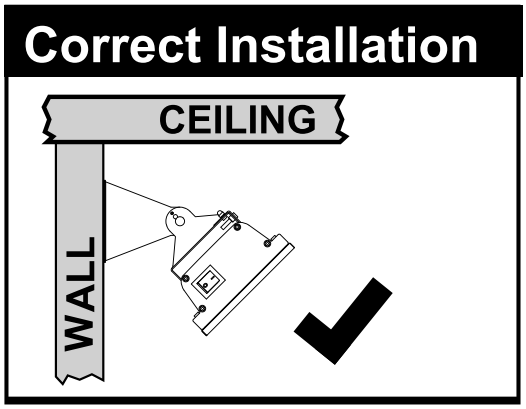


Fig. 7

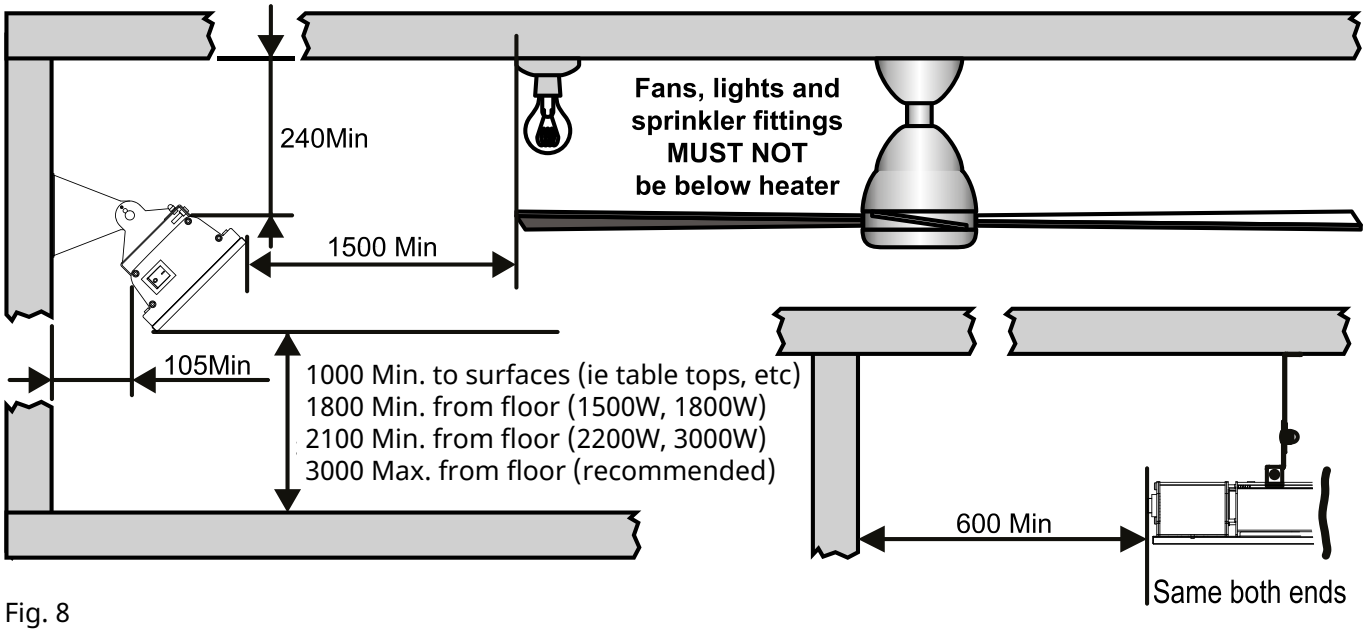


Fig. 8

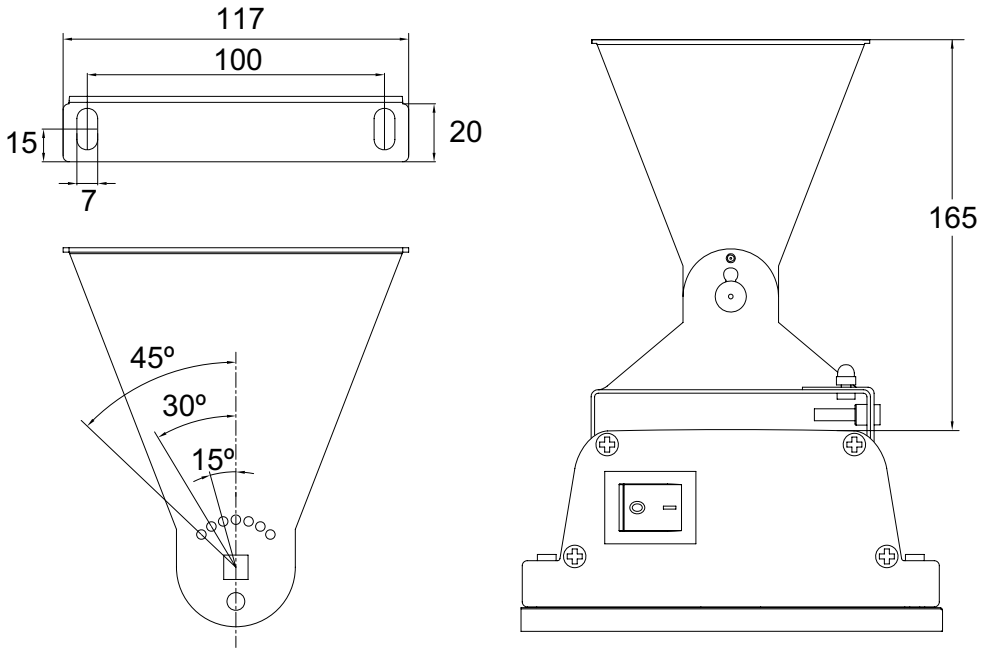
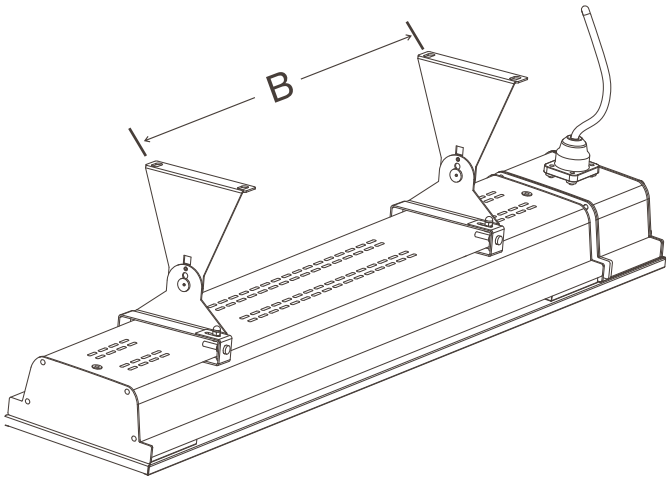
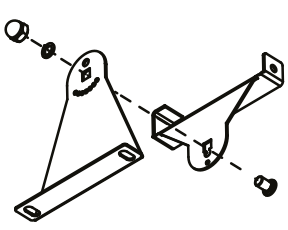


Fig. 9



	Minimum distance B [mm]
1500W	**500 ±50**
1800W	**500 ±50**
2200W	**500 ±50**
3000W	**650 ±50**

Fig. 10



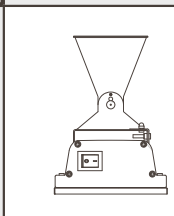
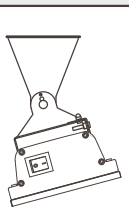
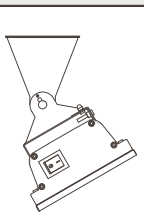
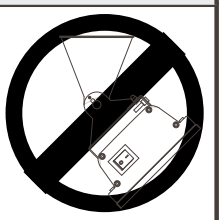
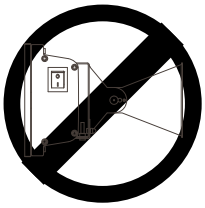
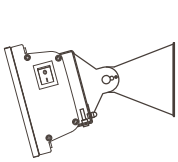
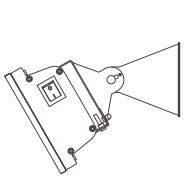
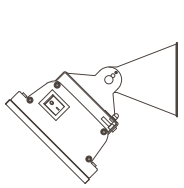
	0°	15°	30°	45°
Ceiling				
Wall				

Fig. 11

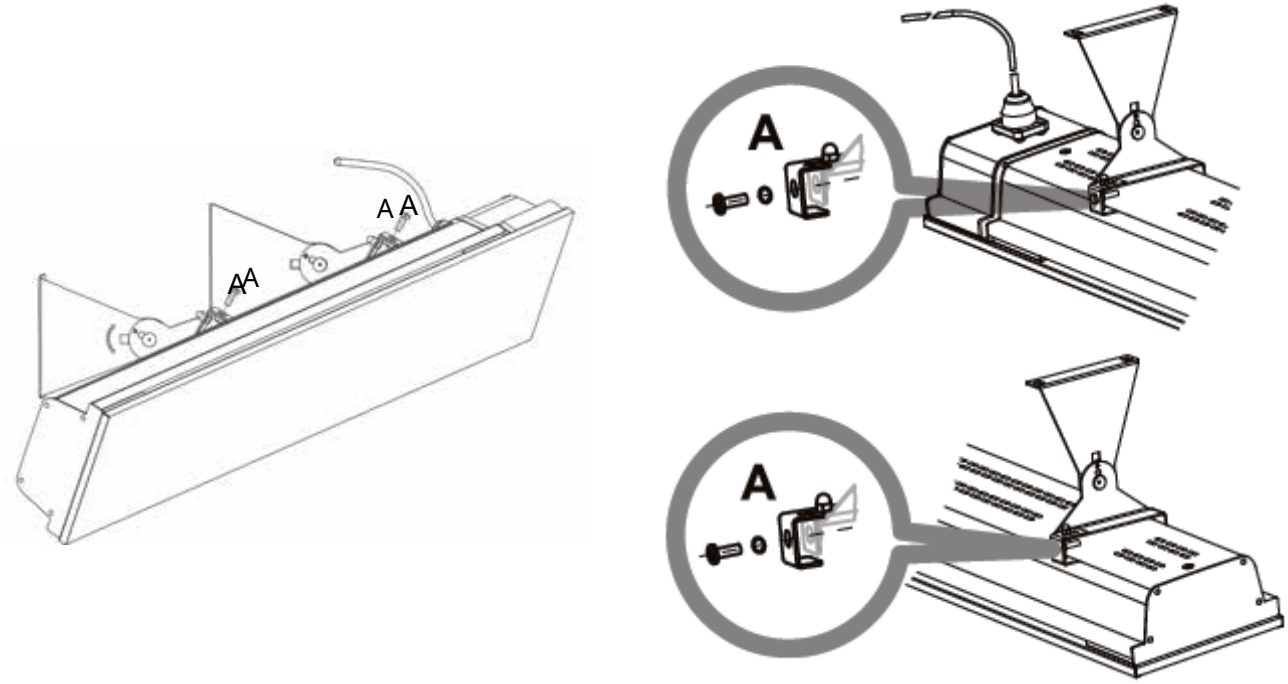


Fig. 12

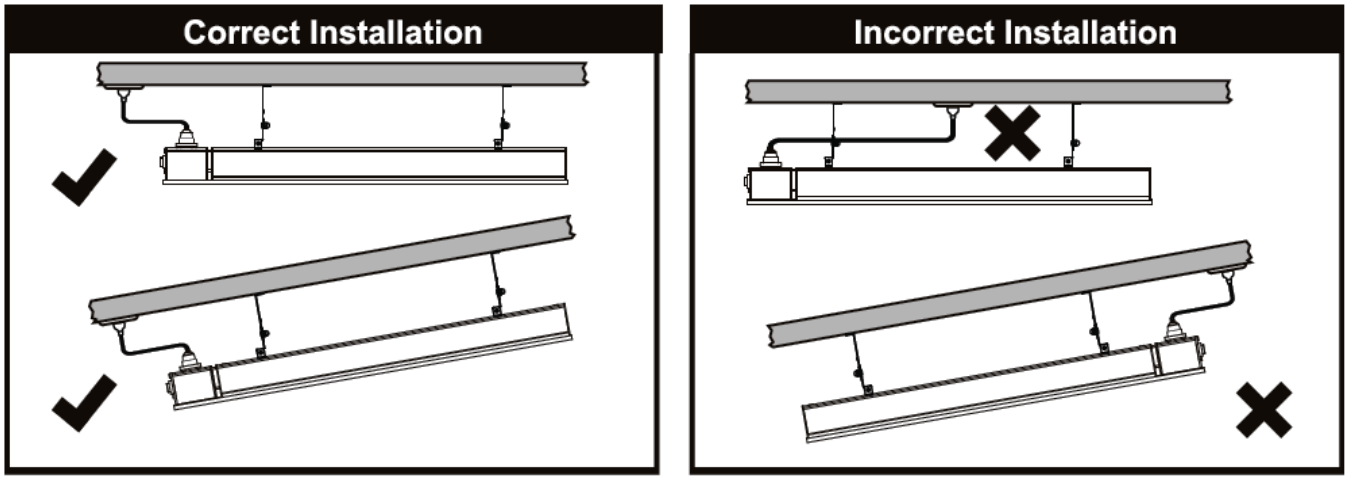


Fig. 13

Installation and operating instructions

IMPORTANT INFORMATION
Please carefully read the Operation Manual before using the infrared heater. This Operation Manual contains important information on your safety, as well as some recommendations on proper use of the appliance and its maintenance.

INTENDED USE:
The device is warming outdoors.

WHAT'S IN THE BOX
- Heater fitted with flexible cord and plug
- Installation and operating instructions
- One small box contains 2 sets of brackets
- One remote controller, only for remote control model

SAFETY INSTRUCTIONS
During use of the infrared heater, it is necessary to observe some precautions. Improper operation with disregard of precautions may result in infliction of harm to health of the user and other people, as well as infliction of damage to their property.
- Use only the voltage specified on the rating plate of the heater.
- ONLY connect the appliance to a properly installed socket-outlet with earth contact.
- The heater should be connected to the electric mains equipped with an automatic circuit breaker.
- The unit must be handled with care and avoid vibration or hitting.
- WARNING: FIRE RISK EXISTS IF THE HEATER IS COVERED BY OR POSITIONED CLOSE TO CURTAINS OR OTHER COMBUSTIBLE MATERIALS. Do not place any clothing, towels or similar to dry over the heater! Overheating and risk of fire!
- Do not use the appliance areas where gasoline, paint or other flammable liquids are used or stored.
- In particular, do not use the appliance in dusty areas or where explosives are stored.
- Do not use the appliance in a building site, green house, barn or in animal stables.
- Do not use the appliance as a sauna heater.
- Do not use this unit in the place of animal propagating and rising.
- Warning: Do not touch the radiating plate. The temperature of radiating boards during operation of the heater may reach 380 °C. To avoid burns, do not touch the appliance surface by hand and other body parts. It is also necessary to avoid touching the heater whilst the appliance is switched on, as severe burns may result. The appliance can take up to 1 hour to cool down after switching it off.
- Do not place any items of clothing, hand towels or similar over the heater to dry. Risk of overheating and fire hazard.
- Do not leave the heater unattended whilst in use.
- Do not use this heater on a wet surface, or where it can fall or be pushed into water.
- Do not reach for an appliance that has fallen into water. Switch off at supply and unplug immediately.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- If the heater is defective, it must be checked and repaired by the manufacturer, its service agent or similarly qualified persons for repair.
- Do not operate appliance with wet hands.
- Use this appliance 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 cleaning products on this appliance. If the body becomes dirty, wipe off dust with a cloth, and the radiating boards should be wiped in cold condition with a damp soft cloth. Always remove the plug from the mains supply before cleaning.
- The heater must be installed at least 1.8 m above the floor.
- The heater must not be located immediately below a socket-outlet. The heater must not be located in front of a socket-outlet. They should be located outside the physical footprint of the units to minimize heat build-up behind the heater.
- The installation must be equipped with a standard electrical power point with a break contact distance of at least 3 mm. The standard power point must be installed by a licensed electrician.
- If the heater is to be mounted on an incline (eg. Sloping or angled ceiling), ensure the electrical connection is located at that lowest point of the heater.

- Do not connect the appliance to the mains source until it has been installed in its final location and adjusted to the position it will be used in.
- Do not operate with the cord coiled up as this could cause a buildup of heat, which could pose a hazard.
- The use of an extension cord with this appliance is not recommended.
- Do not allow cord to come in contact with heated surfaces during operation.
- Do not run cord under carpeting, throw rugs or runners etc. Arrange cord away from areas where it is likely to be tripped over.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- The appliance is only intended for the purpose described in user manual.
- Do not use appliance or any part of the appliance out of the intended use to avoid risk.
- The use of attachments which are not recommended or sold by the appliance manufacturer may cause a risk of injury to persons.
- Install and operate the heater in strictly horizontal position on the ceiling or ceiling structural surface. The thermal resistance of the ceiling coating and ceiling material should be at least 80 °C.
- WARNING: This heater is not equipped with a device to control the room temperature. This heater is to be used in an open, alfresco environment or large areas with high ceilings. The heater must not be within reach from the floor, as severe burns may occur due to high surface temperatures. Do not use this heater in small rooms or where the room or area is occupied by persons not capable of leaving the room on their own, persons who are unable to operate the heater safely and with the guidelines of the use manual, unless constant supervision is provided.
- WARNING: The heater must not be used if the glass panels are damaged.
- 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 made by children without supervision.
- Children of less than 3 years should be kept away 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.
- CAUTION- Some parts of this product can become very hot and cause burns. Particular attention has to be given where children and vulnerable people are present.

HOW TO OPERATE THE HEATER
General design layout

Fig. 1
1. Ceramic glass panel
2. ON/OFF main power switch
3. Power cord and plug
4. Brackets for wall or ceiling mounting
5. Remote control (only for the models IHRGDxx)

OPERATION

NOTE:

- WARNING! Slight crackles may be heard during the heating or cooling period. This is normal operational noise.
- After switching on the appliance for the first time and following extended periods on non-use, the appliance may expel a slight odor for a short time. It will not affect the use of the heater.
- To exclude unpleasant burnt odor, it is recommended to keep the heater clean preventing accumulation of dust on it.
- The distance between the heater and the remote control should be less than 3 metre and the remote control must be directly point to the receiver on the front panel during the operation.

OPERATION - Relax Glass without dimmer:

Fig.1 (2)

Connect the unit to the main power, press the switch to the position of I : ON, the red operation indicator will light to indicate the heater is on and the heater will begin to radiate infrared heat. Fig.1 (2).

OPERATION - Relax Glass with dimmer:

Fig. 2

Plug in the device, and then press the switch to the position of I. The device will sound 1 beep, the heater will begin in Standby mode. At this time, the lowest power setting LED will be flashing to indicate the unit is in Standby.

Point the remote control directly to the LED's, press 'LOW', 'MED', 'HIGH' to set your desired power setting.

To set the heater to standby mode point the remote control directly at the receiver and press 'STANDBY'. At this time the lowest heat temperature setting LED will be flashing to indicate the unit is in STANDBY mode.

CAUTION: There is a built-in safety feature that will automatically trigger the heater to go into standby mode after eight hours of continuous operation. At this time the lowest heat temperature setting LED will be flashing to indicate the safety feature has executed.

Timer function:

Fig. 2

Press the button of hour zone of remote control, the delay-off timer (1 hour, 2 hours or 3 hours) can be activated.

Point the remote control directly to the receiver and press the button of "1", a single green LED will illuminate directly beside the power LED's, this will trigger the heater to automatically go into STANDBY mode after 1 hour (60 minutes) of operation. Once in STANDBY mode a single red LED will be flashing.

Point the remote control directly to the receiver and press the button of "2", a single green LED light will illuminate with a gap between the heat and timer LEDs on the unit, this will trigger the heater to automatically go into STANDBY mode after 2 hours (120 minutes) of operation. Once in STANDBY mode a single red LED will be flashing.

Point the remote control directly to the receiver and press the button of "1" and "2", both green LED lights will illuminate, this will trigger the heater to automatically go into STANDBY mode after 3 hours (180 minutes) of operation. Once in STANDBY mode a single red LED will be flashing.

INSTALLATION

Before installation, read the manual carefully. The heater must be installed in accordance with the manufacturer's installation instructions This heater comes with a pair of stainless-steel adjustable angle mounting brackets. The adjustable angle enables the heater to be installed on vertical, horizontal and inclined surfaces.

INSTALLATION - Ceiling mounted

Fig. 3

The ideal mounting position is directly above the area to be heated with a longitudinal orientation and facing vertically downwards.

Please note: Relax Glass heaters with 2200 watts are not suitable for ceiling installation!

Warning: The heater must never be installed in the upwards or inwards facing position, the heating surface must always be positioned to direct the heat in a downwards or outwards direction. Fig. 4

Clearances

Minimum clearances when mounting the heater parallel with a ceiling.
Fig. 5.

Minimum clearances when mounting the heater at an angle to the ceiling.
Fig. 6.

INSTALLATION - Wall mounted

Fig. 7

Minimum clearances when mounting the heater on A VERTICAL WALL. Fig. 8

Installation Process

WARNING! Mounting of the infrared heater and its connection to the electric mains should be carried out only by qualified specialists according to the Electrical Installation Regulations and Power System Safety Standards.

1. Open the factory package and carefully take the heater out.
2. Take out the packing paper sheet from the end of heater
3. Take out one pair of mounting Brackets. These adjustable brackets allow direct ceiling or wall mount, and come with preset angle options of parallel, 15°, 30°, 45° and height 165 mm.
4. The correct installation process, select the heater location on the ceiling by locating the stud or structural beams to ensure secure fastening of the heater, whilst observing the minimum clearances from the floor and other objections. Fig. 9
5. Install two brackets on the ceiling or wall with the following minimum recommended bracket distance “B”. Fig. 10
6. Set the adjustable angle mounting brackets to desired angle and fasten brackets by spanner. For ceiling mounted installation, the available mount angles are restricted to 0°, 15° and 30° only. For wall mounted installation, the available mount angles are restricted to 15°, 30° and 45° only. Fig. 11
7. Hang the heater on the brackets and firmly secure in place with the mounting bracket locking plates by tightening bolts labelled A. Fig. 12

NOTE:
Depending on material and design of ceiling structural elements, the heater must be secured with the correct fasteners. The weight of the heater is up to 5.3 kg, the installation location must be able to hold 5 times the weight of the heater. In the cavity above the radiator, a sufficient exchange of air for heat dissipation must be ensured. Fig. 13

Connection to electric mains

- The heater is designed for connection to the single-phase 230-240V~ 50Hz electric mains equipped with a earth.
- Before connection, make sure that specifications of the electric mains at the connection point meet the single-phase 230-240V~ 50Hz voltage.
- The electric mains should be equipped with an automatic circuit breaker with rated current not less than 16A.
- The heater must not be located immediately below a power point. Power point should not be located at the back of the heater. The power point needs to be located outside the physical footprint of the heater to minimize heat build-up behind the heater.
- If the heater is to be mounted on an incline (eg. Vaulted ceiling), ensure the power point located at that lowest point of the heater.

MAINTENANCE

- Any maintenance should only be carried out by a qualified electrician.
- During operation, it is necessary to periodically (once a year) check the electric cable contacts and terminal connectors for good tightening.
- If the body becomes dirty, wipe off dust with a towel, and the radiating boards should be wiped in cold condition with a damp soft rag.

WARNING! Never immerse the appliance in water! Danger to life!

Packaging
Packaging materials are chosen with consideration to environment and are therefore recyclable.

Handling of product at end of working life
The symbol left implies this product may



contain substances necessary for functionality of product but potentially dangerous for the environment. The product should not be disposed mixed with general household waste but delivered to a designated collection point for environmental recycling. Please contact local authority for further details of your nearest designated collection point.

TROUBLESHOOTING
Possible malfunctions are given in table below:

Symtom	**Cause**
Will not heat / No operation indicator	Check that power is connected and switched on
Heater smells when first used	This is caused by oil or dust left over from the manufacturing process and will stop after a short time
Faint smell for short periods after turning on the heater	This is normal and should stop after a short time
Heater smells when turned on after periods of no use	Build-up of debris and dust on the heater, Switch the heater off and allow it to cool down and then clean
Clinking noises when heater is turned on and after being turned off	This is expansion and contraction noises of the heaters metal components and is normal
Poor heating performance	Exposure to extreme ambient conditions such as high winds / excessively cold temperatures can lower the heating performance of an outdoor installation
	Unit is not installed in correct position, possibly too high or heater is too small for recommended area
There is a burning smell and or strange sounds (other than normal expansion and contraction noises) coming from the unit	Turn off the heater and contact seller
When associated circuit breaker (safety, ground) is thrown or a fuse is blown	Turn off the heater and contact your authorized electrical installer
Poor heating performance	Incorrectly sized installation, contact your authorized electrical installer
	Faulty heater element, turn off the heater, and contact seller

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mailbox@frico.se
www.frico.net

For latest updated information and information about your local contact: www.frico.net

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