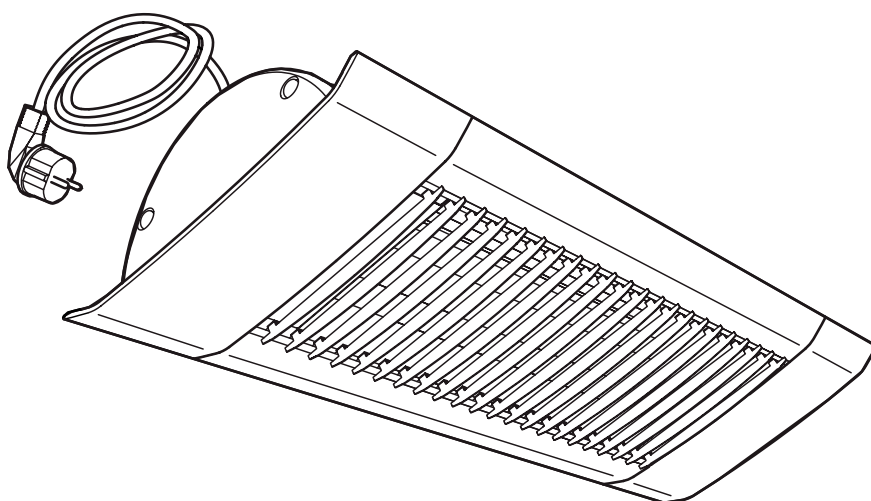


IH

GB ... 6

SE ... 9

NO ... 11

DE ... 13

FR ... 16

ES ... 19

RU ... 22

Dimensions

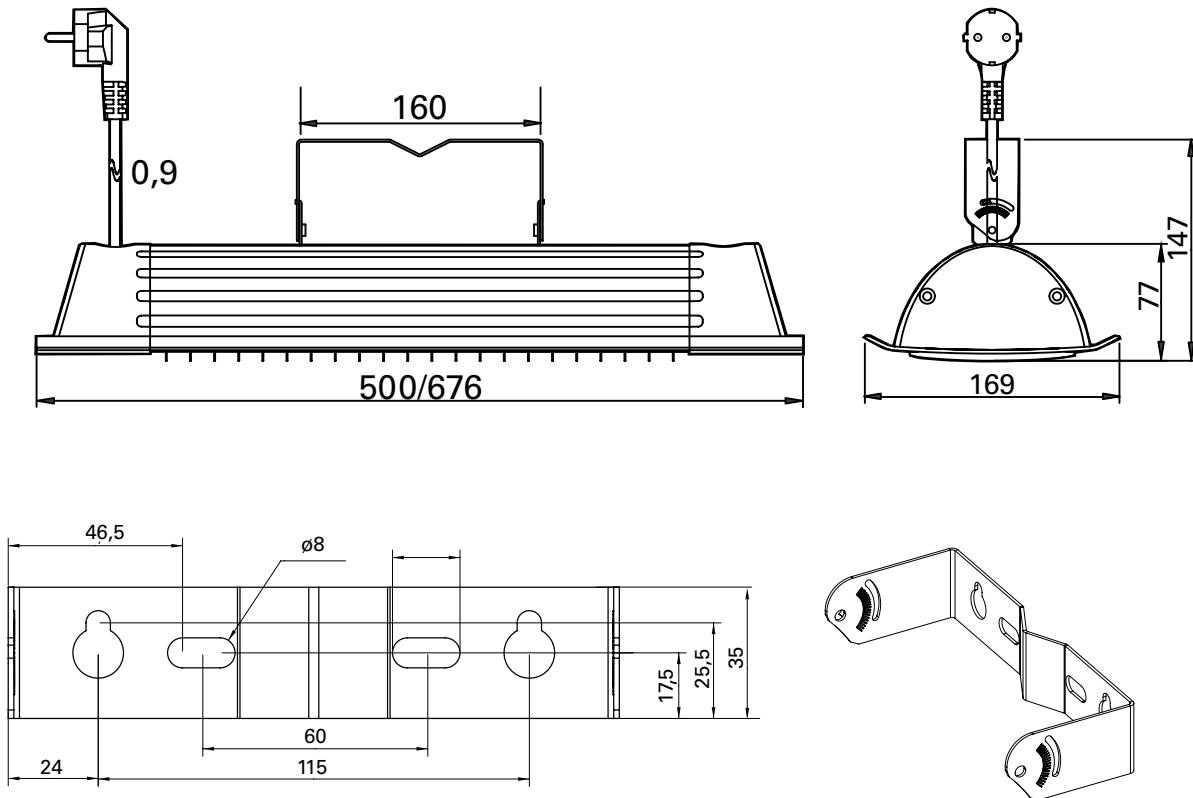


Fig. 1: Wall bracket

Positioning

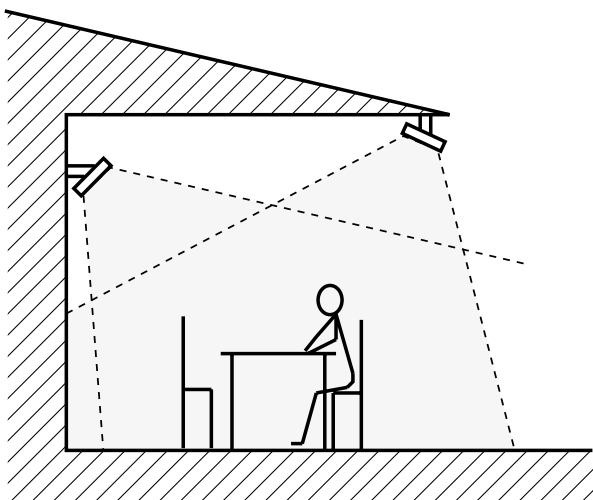


Fig. 2: The heaters should heat from at least two directions for even heating

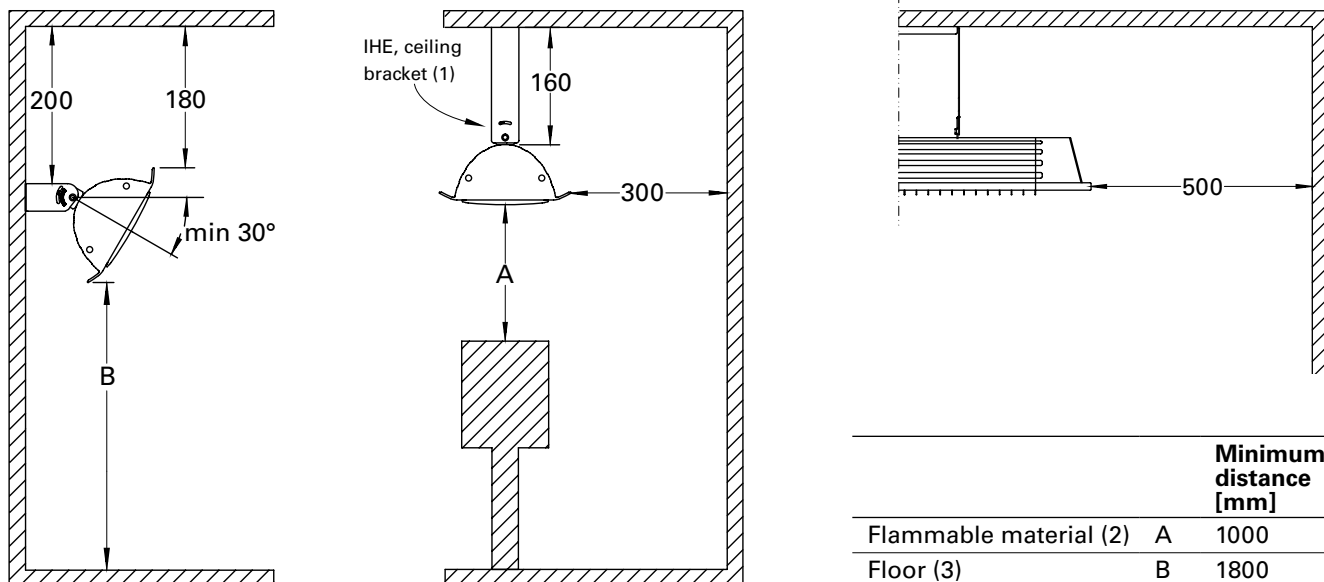


Fig. 3: Minimum mounting distance

(1)	(2)	(3)
SE: IHE, takfäste	SE: Brännbart material	SE: Golv
GB: IHE, ceiling bracket	GB: Flammable material	GB: Floor
NO: IHE, takfeste	NO: Brennbart materiale	NO: Gulv
FR: IHE, console de montage au plafond	FR: Matériau inflammable	FR: Sol
RU: IHE, скоба потолочного крепления	RU: Легковоспламеняемые материалы	RU: Пола
DE: IHE, Decken-halterung	DE: Entflammbares Material	DE: Boden
PL: IHE, uchwyt sufitowy	PL: Materiał łatwopalny	PL: Podłoga
ES: IHE, soporte de techo	ES: Material inflamable	ES: Suelo
NL: IHE, plafond-beugel	NL: Brandbaar materiaal	NL: Vloer
IT: IHE, staffa a soffitto	IT: Materiali infiammabili	IT: Pavimento

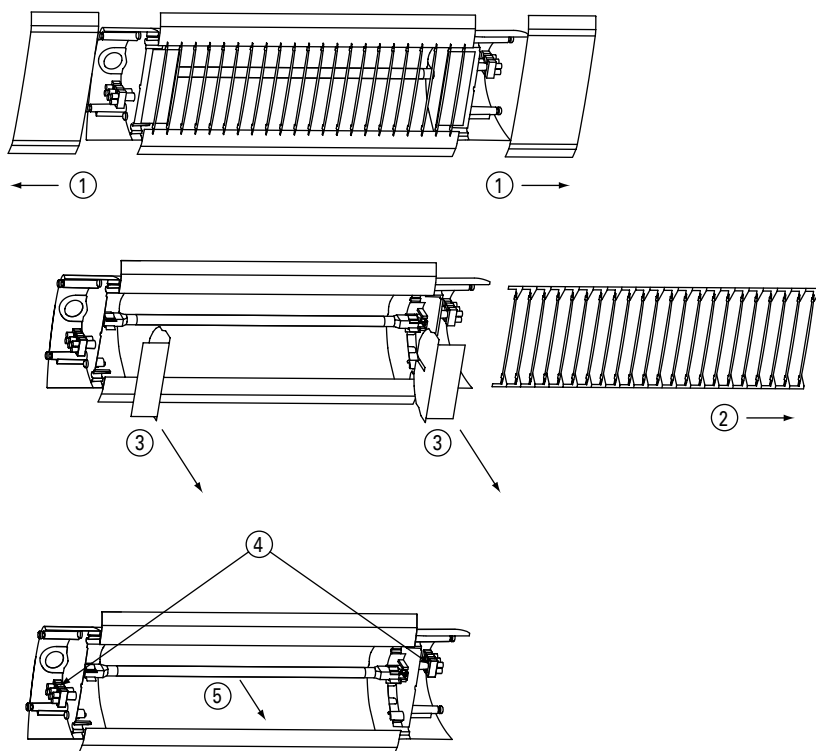
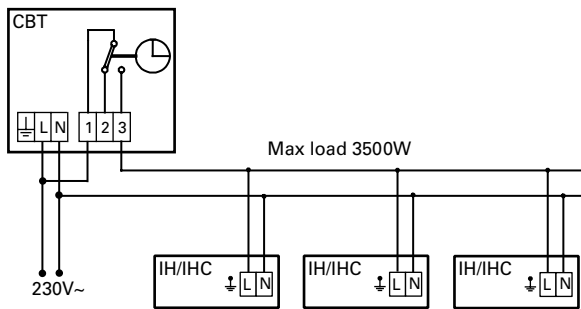


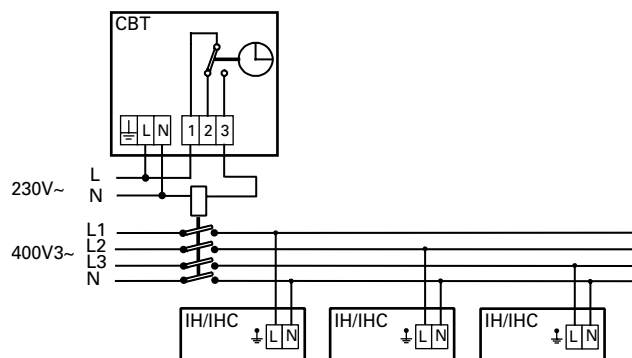
Fig. 4: Replacing the halogen lamp

Wiring diagrams IH

Timer control



Timer control with contactor



Technical specifications | Infrared heater IHW with wide heat distribution, installation height 1.8 – 2.5 m ⚡

Type	E-nr (SE)	EL-nr (NO)	Heat output (1) [W]	Voltage (2) [V]	Amperage (3) [A]	Max. filament temperature (4) [°C]	Length (5) [mm]	Weight (6) [kg]
IHW10	85 701 18	54 325 81	1000	230V~	4,3	2200	500	1,9
IHW15	85 701 19	54 325 82	1500	230V~	6,5	2200	500	1,9
IHW20	85 701 41	54 911 01	2000	230V~	8,7	2200	676	2,5

Technical specifications | Infrared heater IHF with directed heat distribution, installation height 2.3 – 3.5 m ⚡

Type	E-nr (SE)	EL-nr (NO)	Heat output (1) [W]	Voltage (2) [V]	Amperage (3) [A]	Max. filament temperature (4) [°C]	Length (5) [mm]	Weight (6) [kg]
IHF10	85 701 21	54 325 84	1000	230V~	4,3	2200	500	1,9
IHF15	85 701 22	54 325 85	1500	230V~	6,5	2200	500	1,9
IHF20	85 701 42	54 911 02	2000	230V~	8,7	2200	676	2,5

Protection class IH: (IP44), splash-proof design.
CE compliant.

(1)

SE: Effekt
GB: Output
NO: Effekt
FR: Puissance
RU: Выходная мощность
DE: Abgabe
PL: Moc
FI: Teho
ES: Potencia

(4)

SE: Maximal yttemperatur
GB: Max. surface temperature
NO: Maksimal overflatetemp.
FR: Température de surface
RU: Max. темпер. греющ. поверх.
DE: Max. Oberflächentemperatur
PL: Max. temperatura powierzchni grzewczej
FI: Maks. pinalämpötila
ES: Máxima temperatura de superficie

(2)

SE: Spänning
GB: Voltage
NO: Spenning
FR: Tension
RU: Напряжение
DE: Spannung
PL: Napięcie
FI: Jännite
ES: Tensión

(5)

SE: Längd
GB: Length
NO: Lengde
FR: Longueur
RU: Длина
DE: Länge
PL: Długość
FI: Pituus
ES: Longitud

(3)

SE: Ström
GB: Amperage
NO: Strøm
FR: Intensité
RU: Сила тока
DE: Strom
PL: Natężenie prądu
FI: Virranvoimakkuus
ES: Intensidad

(6)

SE: Vikt
GB: Weight
NO: Vekt
FR: Poids
RU: Bec
DE: Gewicht
PL: Waga
FI: Paino
ES: Peso

Installation and operating instructions

General Instructions

Read these instructions carefully before installation and use. Keep this manual for future reference.

The product may only be used as set out in the assembly and operating instructions. The guarantee is only valid if the product is used in the manner intended and in accordance with the instructions.

Application

Halogen infrared heater IH is powerful with a high filament temperature of 2200°C and is the perfect choice for exposed outdoor environments where design is important. IH is available in two different designs. IHW gives a comfortable heat in the occupied zone from close range and also wider heat distribution. IHF has more direct heat distribution and is designed to be installed higher up.

Protection class: IP44.

Positioning

The heaters must be placed so that they enclose the area to be heated, see fig. 2. The normal assembly height is 2–3 metres above the ground/floor. A rule of thumb for infrared halogen is that 600–800 W/m² increases the experienced temperature by about 10 °C. The output demand can be reduced if the area to be heated is protected. If the area only has a roof, at least 800 W/m² should be installed. 600 W/m² is sufficient if the area has three walls. For enclosed areas, the output demand must be calculated. Optimum comfort is achieved if the heat is distributed from at least two directions.

We recommend an installation height of 1.8 - 2.5 m for IHW which has wide heat distribution and an installation height of 2.3 - 3.5 m for IHF which gives a focused heat distribution.

Mounting

IH is mounted on the wall using the bracket. The heater can also be mounted on e.g. a parasol or a post, a suitable U-bolt (not included) is used for this together with the supplied console. IH can also be mounted in the ceiling. For other mounting alternatives, see accessories.

The heater must be mounted in a horizontal position in order to keep the lamp horizontal. The heater can be directed straight out from the wall or angled up to 45°. For minimum measurements, see fig. 3.

1. Secure the bracket on the wall, see fig. 1.
Note that the wall bracket must not only be fitted with the screws in the keyhole slots.
2. Remove the screws fixed to the unit's attachment on delivery.
3. Hook the attachment on the bracket.
4. Lock in position with the screws.

Note that the unit must not be placed directly under the permanent wall socket.

Electrical installation

IH is equipped with a 0.9 metre cord with plug for connection to an earthed outlet socket.

The connection cord must not rest against the unit as the surface becomes hot or can be hit by thermal radiation. Contact an electrician if the cord needs to be changed. Note that due to the high temperatures in the heater, a cord of the type H05 RN-F 3G1 mm² or the like should be used.

As the halogen lamp has a high starting current the wall socket should be fuse protected by a slow burn fuse.

In the event of uncertainty contact an electrician.

Start up (E)

When the unit is used for the first time or after a long period of disuse, smoke or odour may result from dust or dirt that has collected on the element. This is completely normal and disappears after a short time.

Replacing the halogen lamp

The heat lamp in IH is of the highest quality and unless it is subjected to mechanical strains in the form of vibrations and impact it will last for a long time. The service life is dependent on the ambient temperature and how the heater is installed. When the heater is installed freely and outdoors the temperature will be low and the life of the lamp can be expected to be in the region of 3000 hours.

The lamp must be replaced by an installer or other skilled person.

- Disconnect the power supply.
- Wait until the unit is cold.
- 1. Remove the covers at both ends (four screws).
- 2. Pull the grille to one side.
- 3. Remove both reflector ends (two screws).
- 4. Loosen the connections on the terminal block.
- 5. Pull the lamp out of the lamp holders.
- Check that the replacement lamp has the correct output and voltage.
- Fit the new lamp. Note do not touch the lamp with your fingers, wear gloves or the like.
- The protective tube must be refitted to the cables, so that the cables are not damaged when the grille is fitted.
- Reassemble the unit again.

See fig. 4.

Maintenance

When the unit is used for the first time or after a long period of disuse, smoke or odour may result from dust or dirt that has collected on the element. This is completely normal and disappears after a short time.

The power supply to the unit must be disconnected during all service, repair and maintenance work.

The unit has no moving parts so the maintenance requirement is small, but it must be kept clean and free from dust and dirt. If the reflector is not clean the thermal radiation from the unit will decrease and the heater will become hotter. A large amount of dirt can cause overheating.

The surface of the reflector is sensitive and must be cleaned with care. If the reflector is dirty it must be cleaned or replaced by a specialist.

Residual current circuit breaker (E)

When the installation is protected by means of a residual current circuit breaker, which trips when the appliance is connected, this may be due to moisture in the heating element. When an appliance containing a heater element has not been used for a long period or stored in a damp environment, moisture can enter the element.

This should not be seen as a fault, but is simply rectified by connecting the appliance to the mains supply via a socket without a safety cut-out, so that the moisture can be eliminated from the element. The drying time can vary from a few hours to a few days. As a preventive measure, the unit should occasionally be run for a short time when it is not being used for extended periods of time.

Safety

- *For all installations of electrically heated products should a residual current circuit breaker 300 mA for fire protection be used.*
- *During operation the surfaces of the unit are hot!*
- *The unit must not be fully or partially covered with inflammable materials, as overheating can result in a fire risk!*
- *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.*
- *The heater is equipped with a protective grille to prevent contact or to prevent large objects from touching the hot lamp. The unit must not be used without this protective grille.*
- *Ensure that there are no inflammable materials gathered on or close to the heater.*
- *The free space to the inflammable material in the direction of radiation must be at least 1 meter.*
- *Do not place the heater directly under the electrical socket.*
- *The cable and plug must not be placed inside the hot radiant area.*



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