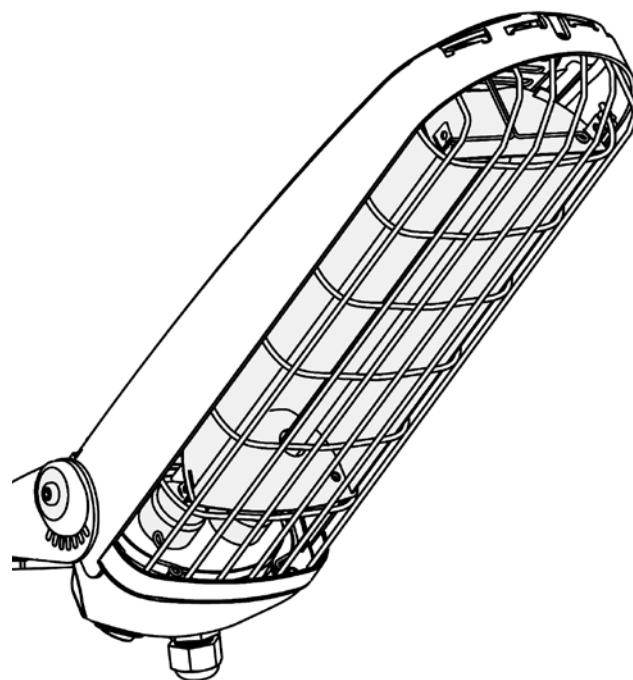


Original instructions

**Infraswift**

EN ... 7

SE ... 10

NO ... 13

FR ... 16

DE ... 19

NL ... 22

ES ... 25

IT ... 28

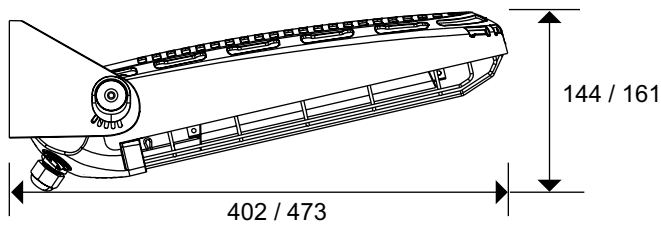
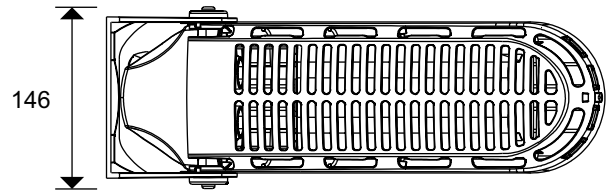
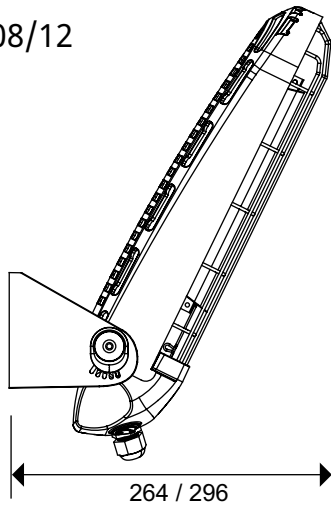
PL ... 31

RU ... 34

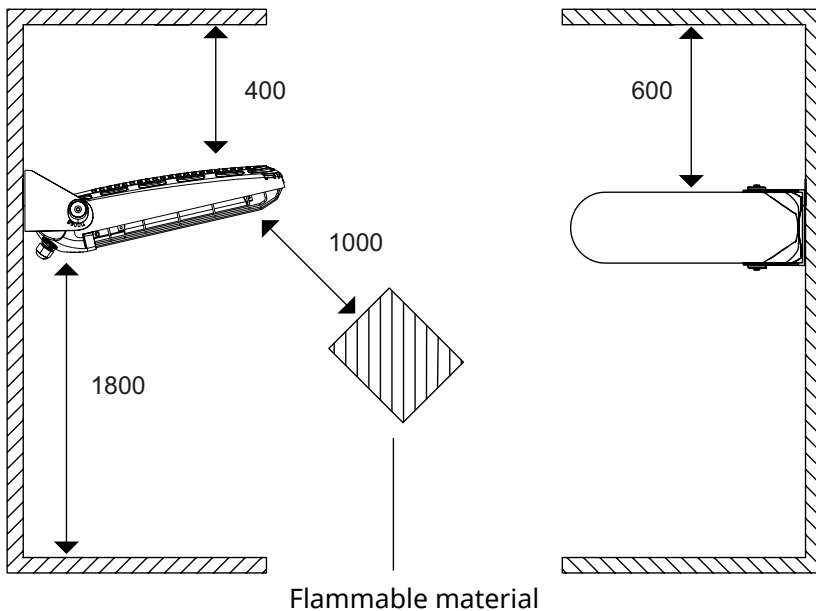
FI ... 37

DK ... 40

INS08/12



Minimum distances

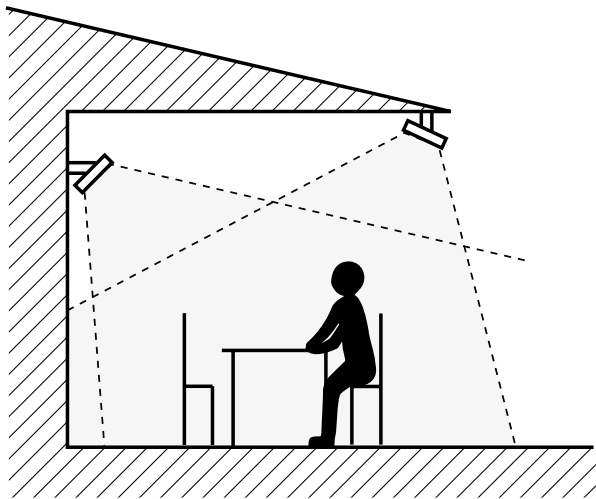


Flammable material

SE: Minimiavstånd, Brännbart material  
 NO: Minsteavstand, Brennbart materiale  
 FR: Distances minimales, Matériau inflammable  
 DE: Mindestabstand, Entflammbares Material  
 NL: Minimale afstand, Brandbaar materiaal  
 ES: Distancias mínimas, Material inflamable

IT: Distanze minime, Materiali infiammabili  
 PL: Minimalne odległości, Materiał łatwopalny  
 RU: Минимальные расстояния при установке, Легковоспламеняемые материалы  
 FI: Minimietäisyydet, Tulenarka materiaali  
 DK: Minimumsafstande, Brændbart materiale

## Positioning



## Installation height

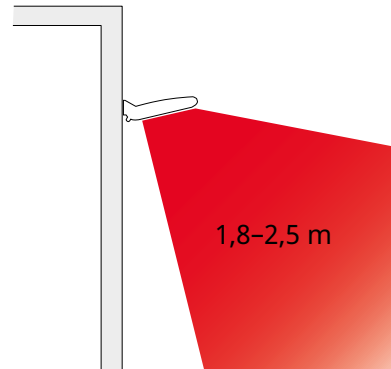


Fig.1: The heaters should heat from at least two directions for even heating.

SE: För jämn uppvärmning bör infrorna värma från minst två håll.

NO: For jevn oppvarming bør infraene varme fra minst to sider.

FR : Pour un chauffage uniforme, les émetteurs doivent chauffer dans au moins deux directions.

DE: Für eine gleichmäßige Wärmeleistung sollten die Strahler aus mindestens zwei Richtungen heizen.

NL: De stralers moeten voor een gelijkmatige verwarming vanuit minimaal twee richtingen werken.

ES: Para garantizar una calefacción uniforme, deben colocarse de modo que el calor llegue desde al menos dos direcciones.

IT: Per avere un riscaldamento uniforme, il calore deve provenire da almeno due direzioni.

PL: Aby zapewnić równomierne ogrzewanie, ciepło powinno pochodzić co najmniej z dwóch kierunków.

RU: Приборы должны располагаться по крайней мере с двух сторон от человека.

FI: Tasaisen lämmityksen varmistamiseksi lämmittimien tulisi lämmittää vähintään kahdesta suunnasta.

DK: Terrassevarmere bør varme fra mindst to retninger for at give jævn varme.

# Infraswift

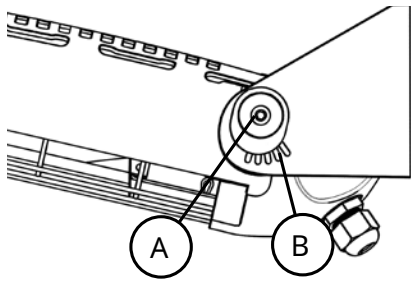


Fig.2

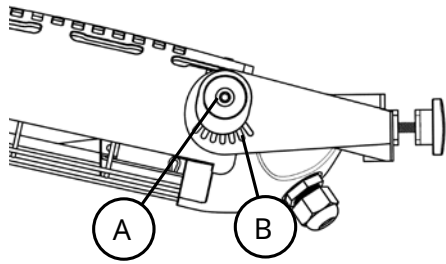


Fig.3: INSP

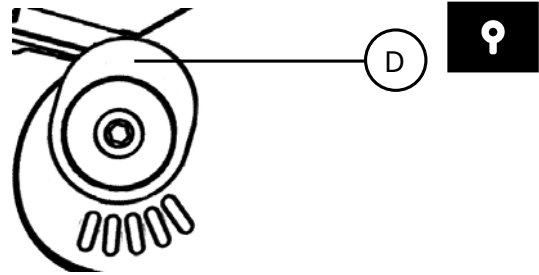
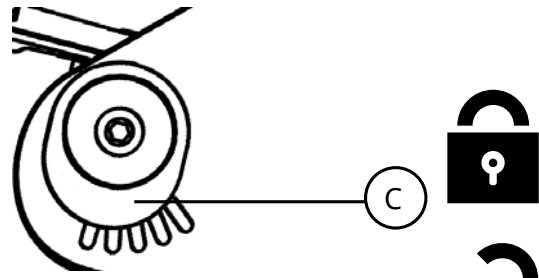


Fig.4

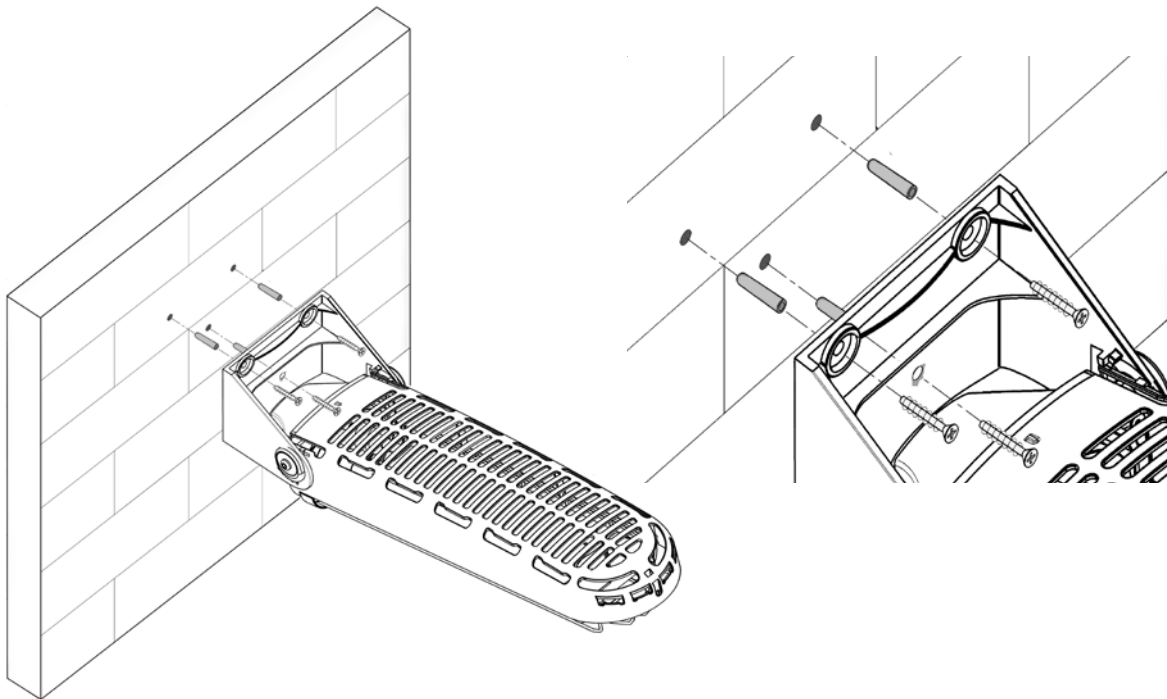


Fig.5

# Infraswift

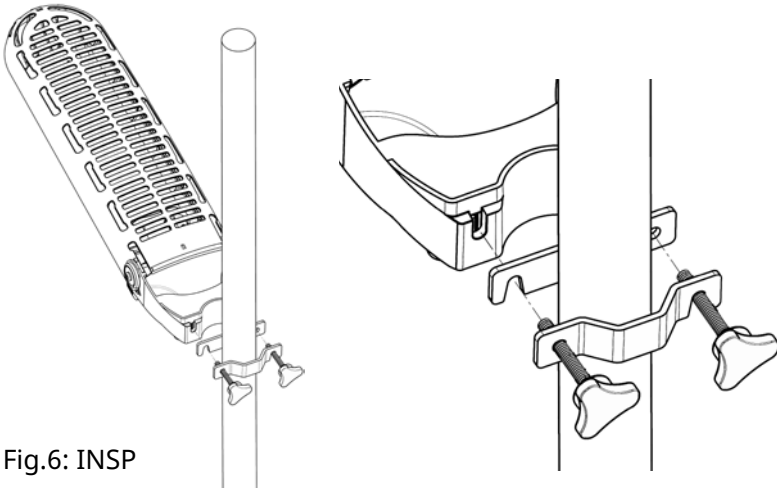


Fig.6: INSP

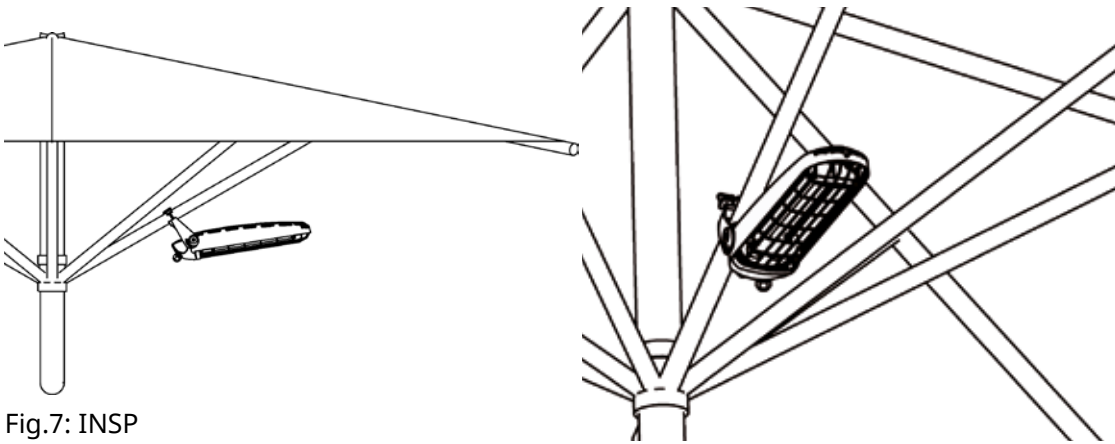


Fig.7: INSP

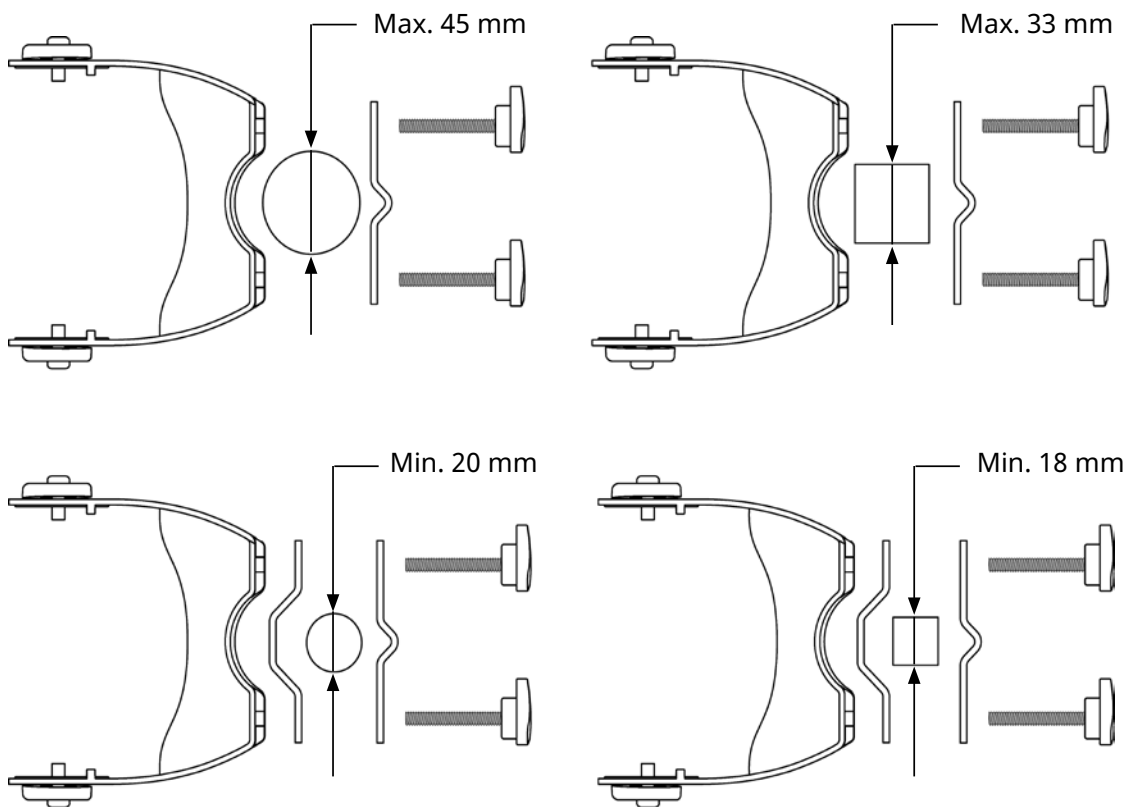


Fig.8: INSP

## Infraswift (IP65)

Item number	Type	Heat output [W]	Voltage [V]	Amperage [A]	Max. filament temperature [°C]	Weight [kg]
276652	<b>INS08</b>	800	220-240V~	3,5	700	1,0
276653	<b>INS12</b>	1200	220-240V~	5,3	700	1,0



### EN: Heat output

SE: Värmeeffekt  
NO: Varmeeffekt  
FR: Puissance  
DE: Heizleistung  
NL: Verwarmingscapaciteit  
ES: Potencia calorífica  
IT: Potenza termica  
PL: Moc grzewcza  
RU: Выходная мощность  
FI: Lämmitysteho  
DK: Varmeeffekt

### EN: Amperage

SE: Ström  
NO: Strøm  
FR: Intensité  
DE: Stromstärke  
NL: Stroomsterkte  
ES: Intensidad  
IT: Corrente  
PL: Natężenie  
RU: Ток  
FI: Virta  
DK: Strømstyrke

### EN: Weight

SE: Vikt  
NO: Vekt  
FR: Poids  
DE: Gewicht  
NL: Gewicht  
ES: Peso  
IT: Peso  
PL: Masa  
RU: Bec  
FI: Paino  
DK: Vægt

### EN: Voltage

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

### EN: Max. filament temperature

SE: Maximal glödtrådstemperatur  
NO: Maksimal glødetrådtemperatur  
FR: Température max. du filament  
DE: Max. Heizfadentemperatur  
NL: Max. gloeidraadtemperatuur  
ES: Temperatura máx. del filamento  
IT: Temperatura max. filamento  
PL: Maks. temperatura żarnika  
RU: Макс. т нити накала  
FI: Suurin hehkulangan lämpötila  
DK: Maks. filamenttemperatur

## Accessories

Item number	Type
282449	<b>INSP</b>
282456	<b>INS800</b>
282458	<b>INS1200</b>
333521	<b>SILS12</b>



INSP



INS800/1200



SILS12

## Installation and operating instructions

### General Instructions

Read these instructions carefully prior to 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 should the product be used in the manner intended and in accordance with the instructions.*

### Application

Infraswift is a versatile patio heater with a soft, yellow-orange light. It has a relatively low surface temperature in relation to the heat output, which together with its compact design provides great freedom in placement. The innovative nylon shell makes Infraswift especially suitable for parasol mounting. Protection class: IP65.

### Positioning

The heaters must be placed so that they cover the area to be heated. Optimum comfort is achieved if the heat is distributed from at least two directions. Fig.1. A rule of thumb for infrared heaters is that 600–800 W/m<sup>2</sup> 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/m<sup>2</sup> should be installed. 600 W/m<sup>2</sup> is sufficient if the area has three walls. For enclosed areas, the output demand must be calculated. The recommended installation heights for the heater are shown on the introduction pages.

### Mounting

Infraswift can be installed on a wall, a post or under a parasol and is supplied with a wall bracket. The heater can be angled in several fixed positions. When fastening the unit make sure that the slots of the bracket are facing down. Fig.2B, fig.3B.

For minimum distance, see diagrams on introductory pages.

#### *Wall mounting (fig.5)*

1. Drill 3 holes with a 5 mm diameter bit in the wall and fix the wall bracket, ensuring that the slots are facing down. Fig.5, fig.2B.
2. Adjust the angle of the unit.
3. Tighten the screws on the sides firmly. Fig.2A.

#### *Mounting on a post (fig.6) or a parasol (fig.7)*

The heater can be fastened to a post or to the ribs of a parasol with the parasol clamp INSP (accessory). The clamp can be fixed on a round post/rib of diameter 20-45 mm, or a square one with sides of 18-33 mm. Ensure that the post is stable and solid before fixing the unit. The mounting options are shown in fig.8.

1. Check if the inner clamp is needed, see fig. 8.
2. Before tightening the two rear knobs of the clamp to fasten it, ensure that the slots are facing down. Fig.3B.
3. Adjust the angle of the unit.
4. Tighten the screws on the sides firmly. Fig.3A.

#### *Blocking the angle*

The unit is blocked in desired angle when the the blocking button is positioned with its solid part downwards. Fig.4C. It is possible to adjust the angle of the unit when the blocking button is positioned with its solid part upwards. Fig.4D.

### Connection

Infraswift is equipped with a 1.9 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 H05RN-F 3x1mm<sup>2</sup>x1,9m with Shuko plug or the like should be used. In the event of uncertainty contact an electrician. The heater is turned on with the switch on the unit (on/off).

### Start-up

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

## Replacing the lamp and silicon sealing

The heat lamp 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 5000 hours. When replacing the lamp, the silicone sealing connected to the lamp must also be replaced, it should be replaced beforehand if there are signs of aging. The lamp must be replaced by an installer or other skilled person.

1. Disconnect the power supply.
2. Wait until the unit is cold.
3. Remove the upper screw that holds the grid and remove the grid.
4. Remove the side screws (2x) for the wall bracket and remove the bracket.
5. Remove the upper screw for the reflector.
6. Remove the back plastic cover.
7. Remove the screws (4x) for the inner bottom cover (do not remove screws for the reflector).
8. Detach the lamp together with reflector and inner bottom cover (nuts for the side screws may fall out).
9. Disconnect white cables (no other cables should be disconnected).
10. Hold the silicone sealings tight and pull out the lamp.
11. Replace the silicone sealings to new ones (make sure that the sealing is properly assembled).
12. Apply some denatured alcohol on the new lamp before assembly.
13. Assemble a new lamp in reverse order.
14. Put back the nuts for the wall bracket in right position before assembly.
15. Reassemble the unit again.

## Maintenance

The power supply to the unit must be disconnected during all service, repair and maintenance work. Wait until the unit is cold. 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. To clean the casing, wipe it with a soft, dry cloth. If it is very dirty, use a slightly damp cloth and, if necessary, a mild detergent. Wipe afterwards with a dry cloth to remove moisture.

## Packaging

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

## Handling of product at end of working life

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

## Safety

- *For all installations of electrically heated products a residual current circuit breaker 300 mA for fire protection should be used.*
- *The unit must not be fully or partially covered as overheating can result in a fire risk!*
- *The unit must not be placed directly under fixed wall sockets!*
- *The unit must not be used if the unit or the cord is damaged. Risk of injury!*
- *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.*
- *The cable and plug must not be placed inside the hot radiant area.*



- *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.**





**Main office**

Frico AB  
Industrivägen 41  
SE-433 61 Sävedalen  
Sweden

Tel: +46 31 336 86 00

mailbox@frico.se

www.frico.net

**For latest updated information and information  
about your local contact: [www.frico.net](http://www.frico.net)**