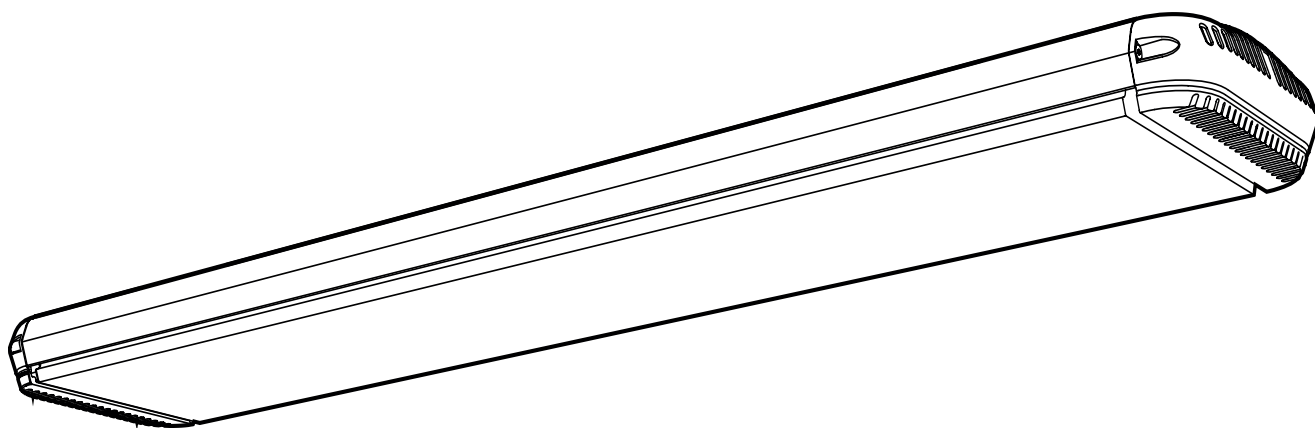


Original instructions

**Infradark**

EN ... 6

SE ... 8

NO ... 10

FR ... 12

DE ... 15

ES ... 18

NL ... 20

IT ... 23

PL ... 25

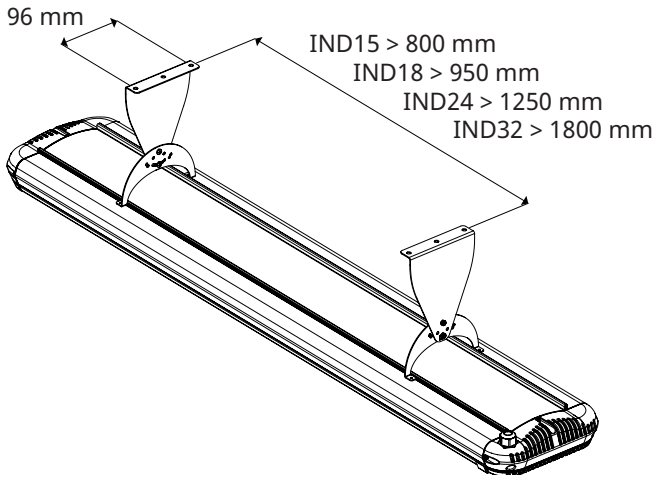
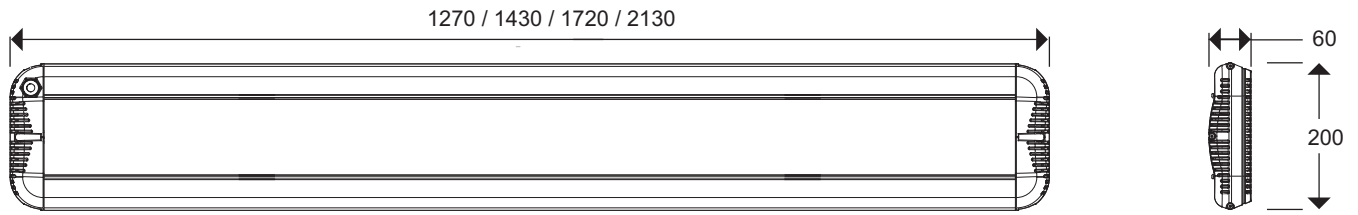
RU ... 28

FI ... 31

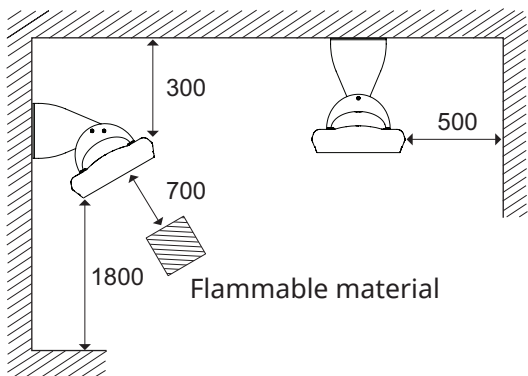
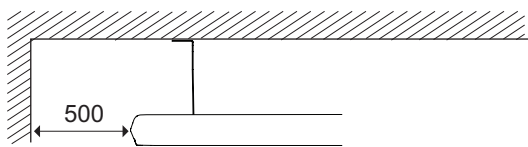
DK ... 33

# Infradark

IND15/18/24/32



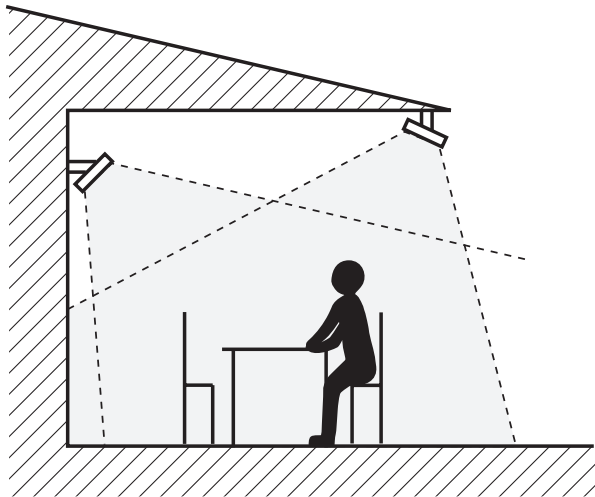
## Minimum distances



- 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
- PL: Minimalne odległości, Materiał łatwopalny
- RU: Минимальные расстояния при установке, Легковоспламеняемые материалы
- FI: Minimietäisyydet, Tulenarka materiaali
- DK: Minimumsafstande, Brændbart materiale

## Infradark

### Positioning



### Installation height

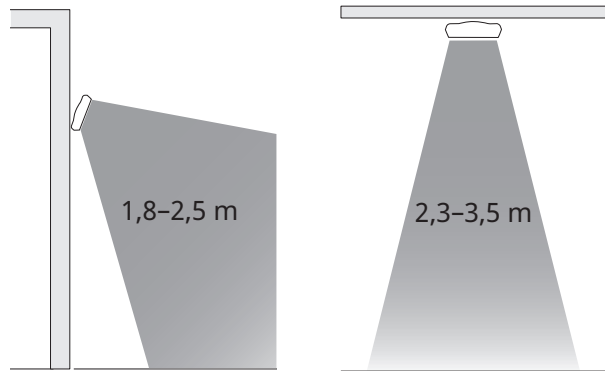


Fig.1: The heaters should heat from at least two directions for even heating

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 lämmittäjä vähintään kahdesta suunnasta.

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

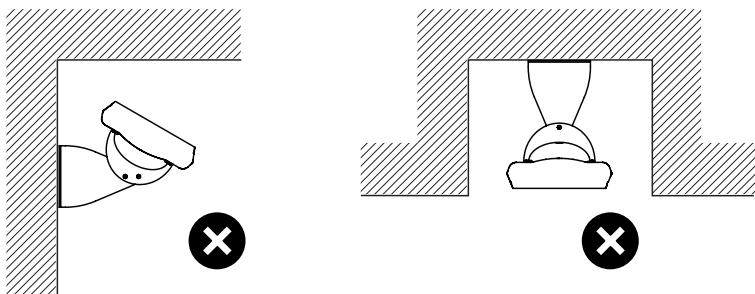


Fig.2

# Infradark

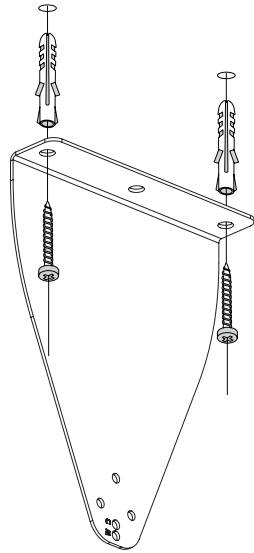


Fig.3

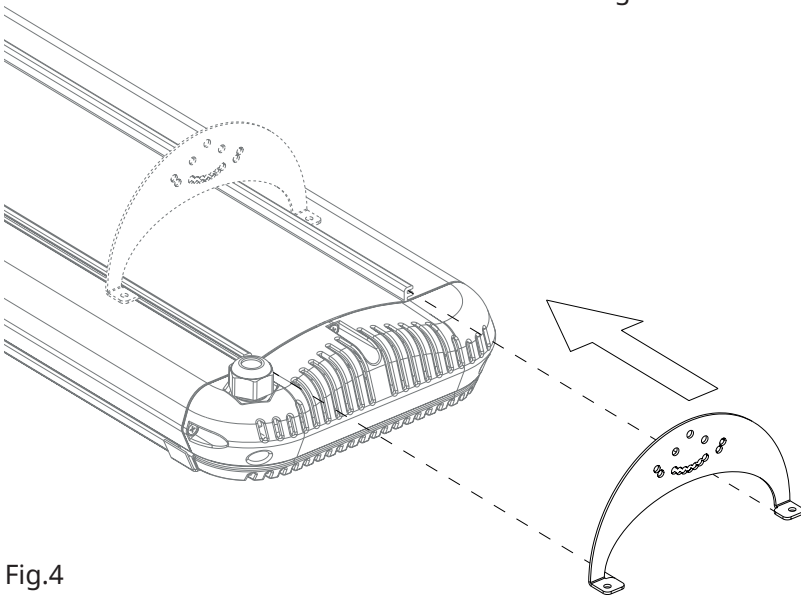


Fig.4

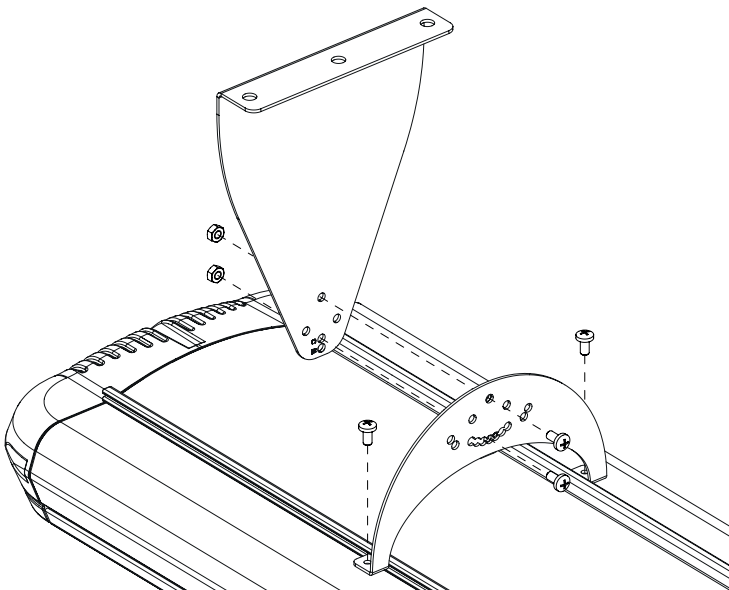


Fig.5

# Infradark

## Infradark (IP55)

Item number	Type	Output steps [W]	Voltage [V]	Amperage [A]	Max. surface temperature [°C]	Weight [kg]
276654	<b>IND15</b>	500/1000/1500	220-240V~	6,6	340	6,9
276655	<b>IND18</b>	600/1200/1800	220-240V~	7,9	340	7,5
276656	<b>IND24</b>	800/1600/2400	220-240V~	10,5	340	9,0
276657	<b>IND32</b>	1100/2100/3200	220-240V~	14	340	10,4



### EN: Output steps

SE: Effektsteg  
 NO: Effekttrinn  
 FR: Etages de puissance  
 DE: Leistungsstufen  
 NL: Capaciteitsstappen  
 ES: Niveles de potencia  
 IT: Stadi potenza  
 PL: Stopnie mocy  
 RU: Ступени мощности  
 FI: Tehoportaat  
 DK: Effekttrin

### 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: Amperage

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

### EN: Max. surface temperature

SE: Maximal yttemperatur  
 NO: Maksimal overflatetemp.  
 FR: Température max. de surface  
 DE: Max. Oberflächentemperatur  
 NL: Max. oppervlaktetemperatuur  
 ES: Temperatura superficial máxima  
 IT: Temperatura max. superficiale  
 PL: Maksymalna temp. elementu grzejnego  
 RU: Max. температура поверхности  
 FI: Suurin pintalämpötila  
 DK: Maksimal overfladetemperatur

### EN: Weight

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

## 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

Infradark is a powerful patio heater with a stylish design in black anodised aluminum, making it ideal for elegant outdoor applications in wind protected areas. It provides a pleasant heat and can be operated at 1/3, 2/3 or full power.

Protection class: IP55.

### 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 equipped with metal tubular elements is that 750–1000 W/m<sup>2</sup> increases the experienced temperature by about 10 °C. For enclosed areas, the output demand must be calculated. The recommended installation heights for the heater are shown on the introduction pages.

### Mounting

Infradark can be installed on a wall or to the ceiling with the included brackets. The heater can be angled in several fixed positions.

The heater must not be directed towards the ceiling or flammable materials or be mounted into the ceiling. Fig.2.

For minimum distance, see diagrams on introductory pages.

1. Drill four holes in the wall/ceiling.
2. Mount the two brackets. Fig.3.
3. Insert the arch-shaped brackets in the special rail on the top of the heater. Fig.4.
4. Align the holes of the brackets and join them together using the supplied bolts, setting the desired inclination. Fig.5.
5. Firmly tighten the screws when finished.

### Connection

IND15, IND18 and IND24 are equipped with a 1.9 metre cord with plug for connection to an earthed outlet socket. IND32 is equipped with a 3 metre cable without plug.

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 following type or the like should be used:

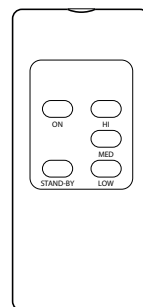
- IND15, IND18: H05RN-F 3x1mm<sup>2</sup>x1,9m
- IIND24: H07RN-F 3x1,5mm<sup>2</sup>x1,9m
- IIND32: H05SS-F 3x1,5mm<sup>2</sup>x3m.

In the event of uncertainty contact an electrician.

### Control

The heater is equipped with a dimmer to adjust the heat output in three steps by the included remote control. The remote control can activate several heaters. After each restart, the product will return to the setting selected before it was turned off.

- Use included 1 x 12V A23 battery for the remote control. Remove batteries when not in use for an extended period in order to preserve battery life.
- Always use the same type of batteries when changing them.
- The remote control may not function should there be a loss of signal between the remote control and the heater.



	Output	Colour (LED)
<b>On</b>		-
<b>Stand-by</b>	0	-
<b>High</b>	1	Red
<b>Med</b>	2/3	Purple
<b>Low</b>	1/3	Blue

### 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.

The heater will reach the maximum temperature 15-20 minutes after power up.

## 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. To clean the unit, 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.

- There might be a rattling noise the first time of use when the surface coating of the panels is settling.
- In all electrical heating appliances, small clicks can occur due to movement when the material expands and contracts with changes in temperature.
- The product should always be handled with clean gloves. Make sure the product is clean before it is switched on.
- Presence of aerosols, lacquer, solvents, dust and similar may cause a coating on the product and discolor them.
- A slight change of colour of the product over time is normal. Incorrect installation or uncommonly high ambient temperature can cause increased discoloration. The output is not affected.

## Residual current circuit breaker

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 main 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.

## 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 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.**



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about your local contact: [www.frico.net](http://www.frico.net)**