



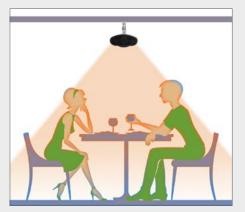


# ENJOYING FEEL-GOOD WARMTH ON THE **TERRACE** OR **BALCONY**.

Infrared radiation heats without preheating, noiselessly, odourlessly, without condensation and without raising dust. Therefore, it is also particularly recommended for allergy sufferers. Infrared radiant heaters are an excellent choice for distributing warmth on the terrace or balcony on cold days.



# **INSTALLATION TIPS FOR INFRARED RADIANT HEATERS.**



**1.** An infrared radiant ceiling heater warms you from above.



**2.** The higher the radiator hangs, the wider the heat cone. However, the heat energy is correspondingly lower.



However, some areas may remain cool because they are not reached by the heat radiation.



7. To warm the legs and feet as well, we recommend placing an infrared pedestal radiant heater under the table.



**8.** As an alternative, several infrared radiant heaters positioned on tripods can be used.



**9.** Or you choose one or more terrace pedestal radiant heaters to provide targeted heat above and below the table.

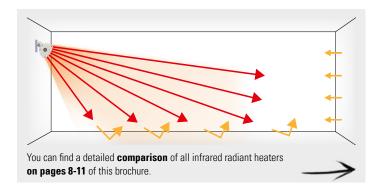
- Terrace / balcony
- Catering trade / events
- Holiday home outdoor areas
- Sauna or wellness outdoor areas
- Market stall





# HOW INFRARED HEATING **WORKS**

Infrared rays cannot heat up the room air directly but they heat up all objects inside the room, which will then permanently emit the stored thermal energy into the room, similar to a tiled stove. In contrast to conventional convection heating, this indirect heating method thus warms up objects instead of directly warming up the room air.





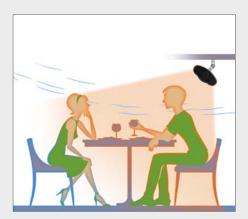
**4.** With two ceiling heaters, the heat radiation is distributed more evenly to both people.



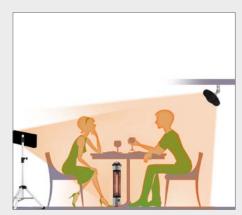
5. If infrared radiant heaters are mounted on a wall, the heat radiation is additionally reflected by the opposite walls.



6. However, it may still remain cool under the table.



10. Tip: At any rate make sure that you are in an area sheltered from the wind so that the cooling air movement does not counteract the warming effect.



11. Combine as needed. Just as your individual situation requires!



Information video about infrared radiant heaters:

Here, we'll show you a selection of installation variants and assist you in your decision-making process for the desired light emission intensity. 3

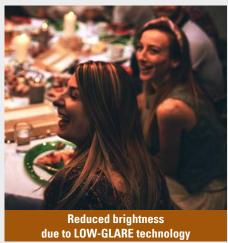


# LOW-GLARE - HEAT WITH 80 % LESS LIGHT RADIATION.

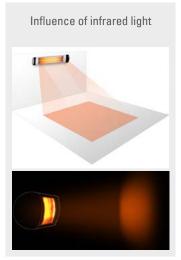
Along with the heat radiation, infrared heaters also often emit light radiation. The environment is thus bathed in an orange-reddish light, which is perceived as warm and cosy by many people.

However, if it is important to you that your sophisticated lighting concept on the terrace or balcony is only slightly affected or not affected at all, then infrared heating sources with reduced light radiation or without any light emission are a good choice.











Enjoy the soothing warmth in a pleasant candle-light atmosphere with reduced light emission. The weatherproof low-glare radiant heaters can heat outdoor areas for private or commercial purposes with a high level of efficiency and cost-effectiveness. In doing so they hardly influence the existing lighting concept.

Low-glare shortwaves produce a larger portion of infrared light in the invisible range. The infrared radiation is further collimated by an innovative coating procedure that reduces the scattering loss.

Thanks to this technology Trotec radiant heaters achieve a light reduction of up to 80 % whilst lasting up to 6,000 operating hours.

#### Important note!

The heating light tube of low-glare radiant heaters looks just as intensely orange as that of models without low-glare technology. However, the light actually emitted and visible is reduced by 80 %.

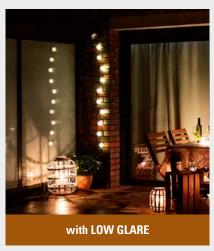
- Romantic candle-light dinners
- Terraces / balconies with their own lighting concept
- Catering trade
- Event locations

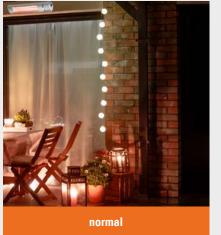




#### Low-glare technology for candle-light atmosphere.

With low-glare technology, the orange-reddish light is no longer that bright, but instead, a cosy candle-light atmosphere is created.





#### Feel-good warmth with low-glare technology

Find out about the radiant heaters IRS 2000 E, IR 2050 and IR 3050 with Low Glare technology in our product videos.



# **IP55 AND IP65 TYPE OF PROTECTION -** RAIN-PROOF AND DUST-PROTECTED.

Infrared radiant heaters are available in many different versions for indoor and outdoor use. An important criterion for device selection is whether or not your radiant heater may be exposed to water or plenty of dust at its site of assembly or installation.

If an infrared heating panel is mounted indoors, water or dust protection is not necessary. An infrared radiant heater installed on your terrace should be able to withstand occasional downpours. Heaters used in the workshop, however, should be protected against dust to a certain extent. IP24 and IP34 types of protection are sufficient for covered terraces.

The IP55 and IP65 types of protection promise that dust cannot enter the housing and that the radiant heater is protected against water jets from all sides.

The robust design also permits the installation on open balconies and terraces. Owing to their dust protection these radiant heaters can also be used in rooms or workshops with high dust concentrations.



- Catering trade
- Design-oriented terrace areas
- Event locations
- Unaffected candle-light atmosphere



# IRD INFRARED RADIANT HEATER - THE STYLISH DESIGN SOLUTION **WITHOUT ANY LIGHT EMISSION**.



The high-quality and elegant IRD infrared radiant heaters from Trotec are recommended for architecturally sophisticated outdoor areas. The simple, minimalist aluminium design housing and the black radiation surface of the infrared radiant heaters blend unobtrusively and stylishly into any environment.

The existing ambient lighting and the light colour of the illuminants used are not affected. The skin tones of the people present are not

altered and appear completely natural. Such infrared radiant heaters can be mounted to the wall or ceiling and can supply very large areas with heat radiation, especially when several devices are used. Here too, however, you have to pay attention to an appropriate protection against the wind in order to prevent the cooling draught from neutralizing the effect of the heat radiation. A particularly convenient feature is that such infrared radiant heaters are maintenance-free as there are no illuminants to be replaced.









#### Advantages of IRD infrared radiant heaters:

- High-quality materials are combined with excellent workmanship to produce such an appealing solution for outdoor areas sheltered from the wind
- No disturbing noises or distracting red light
- Universally applicable (suitable for outdoor installation: on terraces, balconies and roofed outdoor areas)
- Considerable cost reduction due to zero maintenance seeing as no illuminant needs to be replaced
- Protected against water jets from all directions as per IP55 type of protection

# Area heated by IRD infrared radiant heater in outdoor areas sheltered from the wind 1,200 W IRD 1200 1,800 W IRD 1800 1,800 W IRD 2400 1,200 W IRD 3200 1,200 W IRD 3200 1,200 W IRD 3200

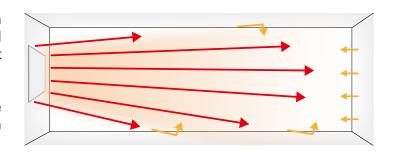
- Living rooms
- Work spaces
- Bathrooms
- Attics
- Holiday homes
- Workshops



# INFRARED HEATING PANELS FOR INDOOR USE.

Infrared heating panels for indoor use emit pure heat radiation without emitting light. They can be attached to the wall like a picture, thus representing a space-saving and elegant heating solution for any room in different formats.

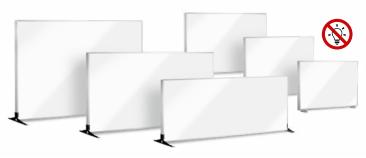
They can also be freely positioned on feet. However, since they are not weatherproof, they are only suitable for indoor use or use in safely covered and sheltered areas.











#### Advantages of the infrared heating panels:

- Efficient heating procedure with environmentally friendly IR-C radiation
- Clean warmth no noise, no odour, no condensate, no oxygen consumption, no unpleasant dust circulation
- Maximum efficiency: 100 % of the electrical energy input is converted into heat output
- Integrated suspension device for mounting on a wall or on assembly supports, feet optionally available



# Accessories for infrared heating panels



Feet for TIH 300 S and TIH 400 S



Feet for TIH 500 S and TIH 1100 S



Assembly support for fastening clamps



Socket thermostat BN30



Radio thermostat with timer BN35

# **OVERVIEW:**

# ALL INFRARED RADIANT HEATERS IN DIRECT COMPARISON

Model		Heating capacity	for areas up to approx.	Mounting	Low Glare	Type of protection	Remote control	Dimensions
Wall-mounted radiant heaters Infrared radiant heaters of the IR-S series								
3	IR 1200 S	<b>1,200 W</b> 2 stages	5-8 m²	Wall		IP24		Width: 53.8 cm Height: 13.5 cm
	IR 2000 S	<b>2,000 W</b> 3 stages	8-14 m²	Wall Tripod		IP34		Width: 50 cm Height: 37 cm
	IR 2010 S	<b>2,000 W</b> 3 stages	8-14 m²	Wall Tripod		IP34		Width: 73.5 cm Height: 15.5 cm
	IR 2570 S	<b>2,500 W</b> 3 stages	10-17 m²	Wall Tripod		IP34	((( :::	Width: 90 cm Height: 20 cm
Wall-mount	ted radiant	heaters	nfrared ra	diant he	aters of t	he IR ser	ies	
	IR 2001	<b>2,000 W</b> 1 stage	8-14 m²	Wall Ceiling	- <b>80%</b> less light	IP65 rain- proof		Width: 46 cm Height: 19 cm
	IR 2005	<b>2,000 W</b> 4 stages	8-14 m²	Wall Ceiling Tripod	- <b>80%</b> less light	IP55 rain- proof	((( ::::	Width: 90 cm Height: 17.5 cm
	IR 2050	<b>2,000 W</b> 3 stages	8-14 m²	Wall	- <b>80%</b> less light	IP65 rain- proof	((( :::	Width: 63 cm Height: 10.5 cm
	IR 2200	<b>2,200 W</b> 2 stages	9-15 m²	Wall Ceiling	- <b>80%</b> less light	IPX0		Width: 103.9 cm Height: 7.8 cm
	IR 2400	<b>2,400 W</b> 2 stages	10-16 m²	Wall		IP55 rain- proof	((( :::	Width: 71 cm Height: 26 cm
	IR 3050	<b>3,000 W</b> 3 stages	12-20 m²	Wall	- <b>80%</b> less light	IP65 rain- proof	((( :::	Width: 96 cm Height: 10.5 cm



Model		Heating capacity	for areas up to approx.	Mounting	LED illumination	Type of protection	Remote control	Dimensions
Radiant ce	iling heate	r <b>s</b> Infrare	d radiant l	neaters of th	ne IR-SC seri	es and IR	-C series	
	IR 1500 SC	<b>1,500 W</b> 3 stages	10 m²	Ceiling		IP34		Ø <b>42</b> cm
	IR 1510 SC	<b>1,500 W</b> 3 stages	10 m²	Ceiling		IP34		Ø <b>42</b> .5 cm
	IR 1550 SC	<b>1,500 W</b> 3 stages	10 m²	Ceiling	<b>LED</b> light	IP24		Ø 45 cm
The state of the s	IR 2000 SC	<b>2,000 W</b> 3 stages	15 m²	Ceiling		IP34		Ø 60.5 cm
	IR 2005 SC	<b>2,000 W</b> 3 stages	15 m²	Parasol rods Ø 2.5 – 6 cm		IP34		Ø <b>90</b> cm
	IR 2010 SC	<b>2,000 W</b> 1 stage	15 m²	Ceiling	<b>LED</b> light	IP45 rain- proof		Ø 46 cm
	IR 2000 C	<b>2,000 W</b> 2 stages	15 m²	Ceiling	<b>LED</b> light	IP55 rain- proof		Width: 69 cm Height: 11 cm



Mode	el		Heating capacity	Heat distri- bution	LED illumina- tion	Low Glare	Type of protection	Remote control	Dimensions	
Pedestal radiant heaters Infrared radiant heaters of the IRS-E series										
		IRS 1200 E	<b>1,200 W</b> 1 stage	<b>360°</b> all-round warmth		- <b>80%</b> less light	IP55 rain- proof		Height: <b>65 cm</b>	
16 Colours Effects 4		IRS 1500 E	<b>1,500 W</b> 1 stage	<b>360°</b> all-round warmth	<b>LED</b> light	- <b>80%</b> less light	IP55 rain- proof	(	Height: 110 cm	
		IRS 2000 E	<b>2,000 W</b> 3 stages	Warmth to one side		- <b>80%</b> less light	IP34	() () () () () () ()	Height: 100 cm	
3 0		IRS 2010 E	<b>2,000 W</b> 2 stages	Warmth to one side		- <b>80%</b> less light	IP44	() () () () () () ()	Height: <b>106.5 cm</b>	
STRONE		IRS 2050 E	<b>2,000 W</b> 9 stages	<b>45°</b> oscillation			IP25 rain- proof	((( · · · · · · · · · · · · · · · · · ·	Height: 100 cm	
Pedestal radiant heaters Infrared radiant heaters of the IRS series										
	1	IRS 2005	<b>2,000 W</b> 3 stages	<b>360°</b> all-round warmth			IP34		Height: <b>210 cm</b>	
		IRS 2010	<b>2,000 W</b> 2 stages	Warmth to two sides	<b>LED</b> light		IP55 rain- proof		Adjustable in height from <b>180 cm</b> to <b>220 cm</b>	
		IRS 2020	<b>2,000 W</b> 2 stages	<b>360°</b> all-round warmth			IP34		Adjustable in height from <b>194 cm</b> to <b>209 cm</b>	
		IRS 2110	<b>2,100 W</b> 3 stages	<b>360°</b> all-round warmth	<b>LED</b> light		IP45 rain- proof	((( · · · · · · · · · · · · · · · · · ·	Adjustable in height from <b>190 cm</b> to <b>220 cm</b>	
		IRS 2520	<b>2,500 W</b> 2 stages	<b>360°</b> all-round warmth			IP34		Height: 188 cm	
	-	IRS 3020	<b>3,000 W</b> 2 stages	<b>360°</b> all-round warmth			IP34		Height: 190 cm	



Model		Heating capacity	for areas up to approx.	Mounting	Low Glare	Type of protection	Remote control	Dimensions	
Infrared radiant heaters Infrared radiant heaters of the IRD series									
	IRD 1200	<b>1,200 W</b> 3 stages	4-8 m²	Wall Ceiling	<b>No</b> light emission	IP55 rain- proof		Width: 93 cm Height: 20 cm	
	IRD 1800	<b>1,800 W</b> 3 stages	7-12 m²	Wall Ceiling	<b>No</b> light emission	IP55 rain- proof	((( :::	Width: 119.5 cm Height: 20 cm	
	IRD 2400	<b>2,400 W</b> 3 stages	9-16 m²	Wall Ceiling	No light emission	IP55 rain- proof	((( ::::	Width: 146 cm Height: 20 cm	
	IRD 3200	<b>3,200 W</b> 3 stages	12-21 m²	Wall Ceiling	<b>No</b> light emission	IP55 rain- proof	((( ::::	Width: 181.5 cm Height: 20 cm	
Heat	ting panels	Infrared	heating pa	anels of the	TIH-S se	ries			
	TIH 300 S	<b>300 W</b> 1 stage	6 m²	Wall optionally with feet	<b>No</b> light emission	IP54		Width: 60.5 cm Height: 50.5 cm	
	TIH 400 S	<b>450 W</b> 1 stage	9 m²	Wall optionally with feet	<b>No</b> light emission	IP54		Width: <b>70.5 cm</b> Height: <b>60.5 cm</b>	
	TIH 500 S	<b>580 W</b> 1 stage	10 m²	Wall optionally with feet	No light emission	IP54		Width: 90.5 cm Height: 60.5 cm	
	TIH 700 S	<b>700 W</b> 1 stage	15 m²	Wall optionally with feet	<b>No</b> light emission	IP54		Width: 120.5 cm Height: 60.5 cm	
	TIH 900 S	<b>900 W</b> 1 stage	18 m²	Wall optionally with feet	<b>No</b> light emission	IP54		Width: 120.5 cm Height: 75.5 cm	
	TIH 1100 S	<b>1,100 W</b> 1 stage	22 m²	Wall optionally with feet	<b>No</b> light emission	IP54		Width: 120.5 cm Height: 90.5 cm	

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#### The right infrared radiant heater for every demand

Whether as a heat source on the terrace, the balcony or in outdoor catering areas the infrared radiators from Trotec provide pleasant and targeted heat distribution in (roofed) outdoor areas.

The infrared radiant heaters supply comfortable radiant heat without long preheating times. They are odourless and noiseless compared to alternative heating solutions with hot air blower.

With this guidebook, you will find the right infrared radiant heater for your specific application.



