Industrial infrared heater IR

For premises with large volumes and high ceilings

IR is suitabe for total or supplementary heating of premises with large volume and high ceilings. It can also be used outdoors for example on sport arena stands or to keep loading bays dry and frostless.

IR has a robust industrial design.

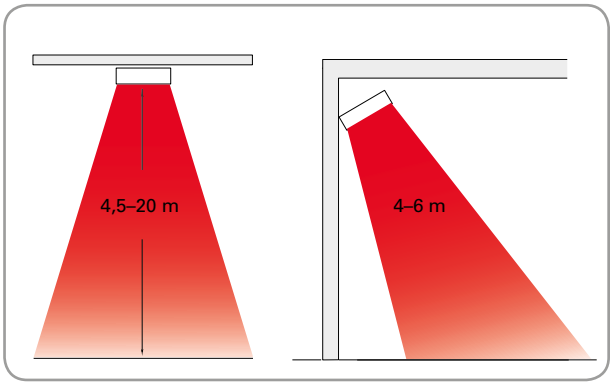
- Reflectors of shiny anodised aluminium for optimal heat distribution.
- The mounting brackets allow the heater to be angled in five different positions.
- To comply with Ecodesign Regulation (EU) 2015/1188 the unit must be installed either with thermostat TAP16R or with output control RB123 and presence detector PDK65 (accessories).
- Connection plinth which allows for connection of a regulator or for serial connection of several heaters.
- Protection grille is available as an accessory.
- Casing of grey alu-zinc coated steel panels, very resistant against corrosion.

Industrial infrared heater IR (IP44)

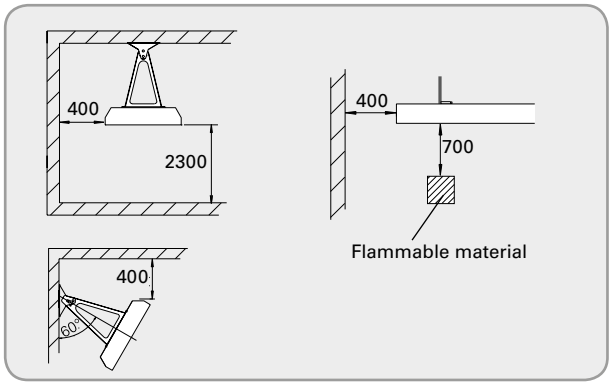
Type	Output steps [kW]	Voltage [V]	Amperage [A]	Max. element temperature [°C]	Dimensions LxHxW [mm]	Weight [kg]
IR3000	1/2/3	400V3N~*	4,3	700	1125x83x358	9,0
IR4500	1.5/3/4.5	400V3N~*	6,5	700	1500x83x358	11,1
IR6000	2/4/6	400V3N~*	8,7	700	1875x83x358	13,2

*) Can also be connected 400V3~, but then without output steps. With neutral, one element tube at a time can be connected.

Installation height



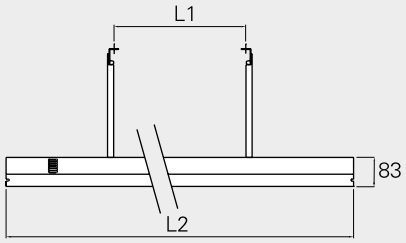
Minimum distances

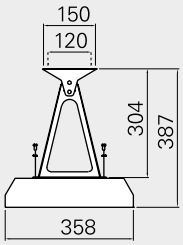


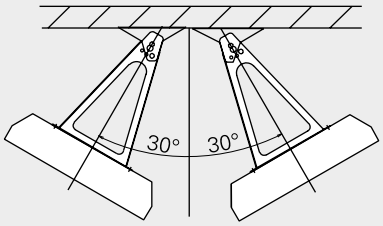
Design and specifications are subject to change without notice.

2018-06-15

Dimensions

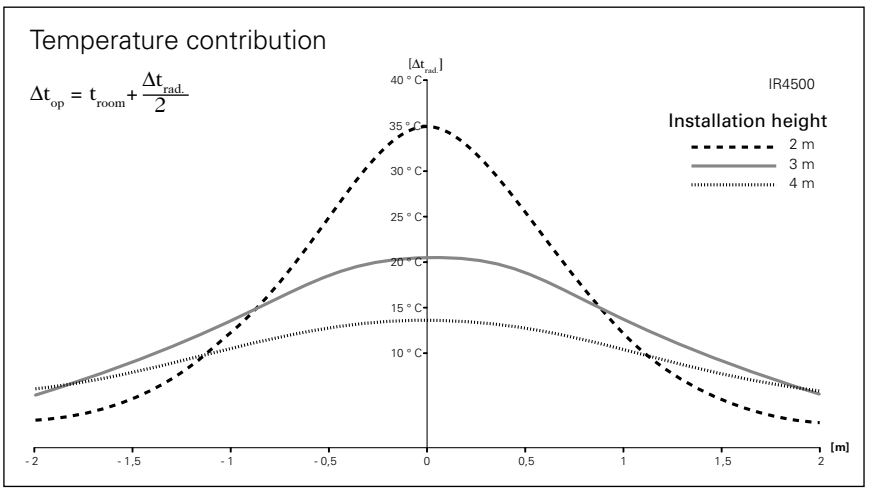






	L1 [mm]	L2 [mm]
IR3000	600	1125
IR4500	900	1500
IR6000	1200	1875

CE



The IR heater can be mounted in an angeled position to direct the heating where it is needed. Heaters used outdoors should be placed under a roof.

To divide a large hall into different zones is very energy effective especially in buildings where each zone is sporadically used. Protection grille IRG, available as an accessory, can be used to protect the heater in for example sports centres.

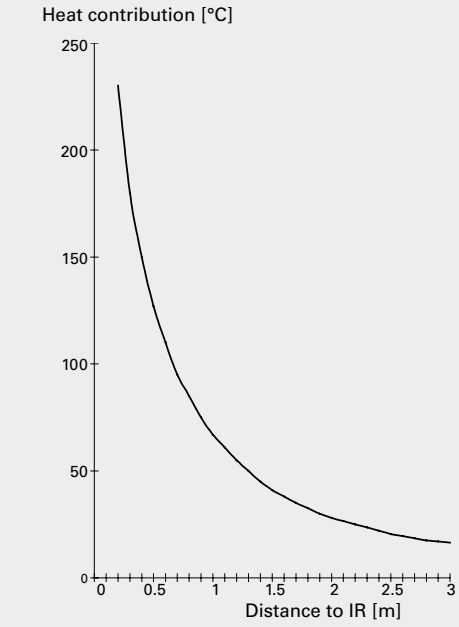
Positioning, mounting and connection

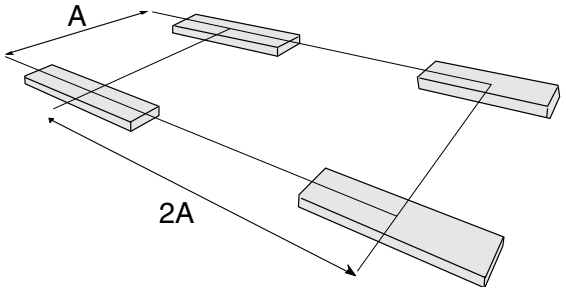
Positioning
For spot heating, the infrared heaters should be positioned so that people get heat from the front and from behind. The distance to the head should not be less than 2 metres. Read more in the Technical handbook.

Mounting
Industrial infrared heater IR is installed horizontally with mounting brackets that can be installed directly against the ceiling or wall. The mounting allows the radiation angle to be adjusted 30° in each direction. The heaters can also be suspended from wire (minimum Ø 3 mm). Protection grille is available as an accessory.

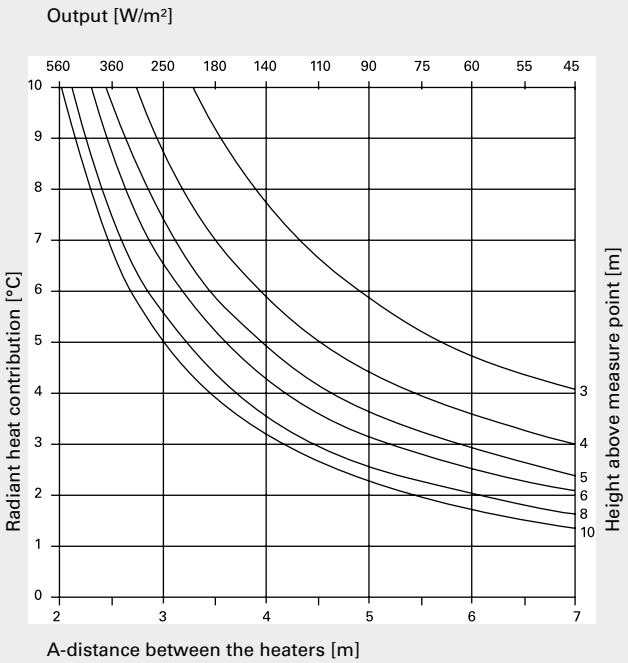
Connection
Industrial infrared heater IR is intended for permanent installation. There are double connection plinths in the connection box that make it possible to further connect from one heater to another.

Heat contribution directly below IR 4.5-6 kW

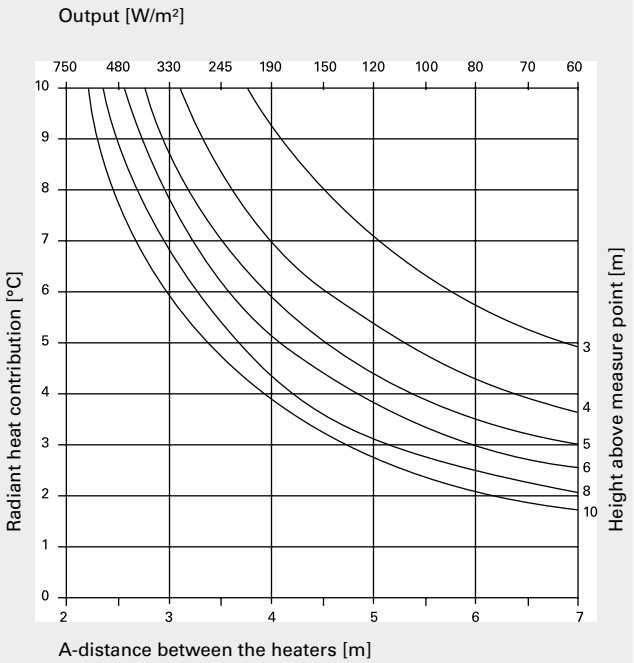




Radiant heat contribution IR 4,5 kW



Radiant heat contribution IR 6 kW



Control options

The heater must be supplemented with one of the following control options. TAP16R has adaptive start, week program and open window detection. When using TAP16R, protection class IP44 is obtained by adding a protective enclosure TEP44 and an external temperature sensor RTX54 which replaces the internal sensor. Please note that a relaybox RB is also required.

Control by thermostat

- TAP16R, electronic thermostat
- RB3, relaybox 400V3N~/400V3~

Control by thermostat and black bulb sensor

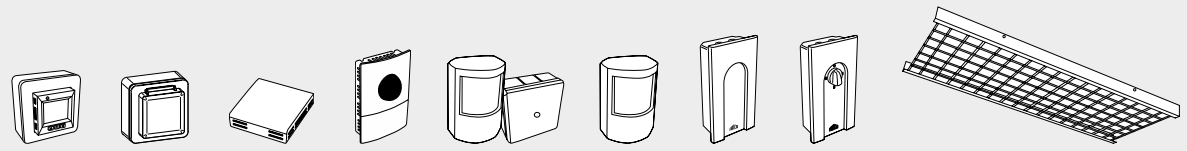
- TAP16R, electronic thermostat
- SKG30, black bulb sensor
- RB3, relaybox 400V3N~/400V3~

Control by 3 step output control and presence detector

- RB123, relaybox with 3 step output control
- PDK65, presence detector with power supply

The product can be controlled in a different way, e.g. by an overall control system (BMS) as long as the requirements of Ecodesign Regulation are met.

Controls and accessories



TAP16R TEP44 RTX54 SKG30 PDK65 PDK65S RB3 RB123 IRG

Type	Description	HxWxD [mm]
TAP16R	Electronic thermostat, 16A, IP21	87x87x53
TEP44	Protective enclosure for TAP16R, IP44. Must be supplemented with RTX54.	87x87x55
RTX54	External room temperature sensor. Replaces internal senor. NTC10KΩ, IP54	82x88x25
SKG30	Black bulb sensor, NTC10KΩ, IP30	115x85x40
PDK65	Presence detector with power supply (up to 5 detectors), 230V~, max 2,3 kW, IP42/IP65	102x70x50 88x88x39
PDK65S	Additional presence detector to PDK65, IP42	102x70x50
RB3	Relaybox 400V3N~ (400V3~/V2~, 230V3~/V2~), 16A, IP44	155x87x43
RB123	Relaybox with 3 step output control, 400V3N~, 16A, IP44	155x87x43
IRG3000	Protection grille for IR3000	869x362x40
IRG4500	Protection grille for IR4500	1235x362x40
IRG6000	Protection grille for IR6000	1615x362x40

Controls for installations not covered by the Ecodesign Regulation (EU) 2015/1188

When the heater is used for technical heating purposes, and not as a local space heater, the following controls can be used.

Type	Description	HxWxD [mm]
KRT1900	Capillary tube thermostat, IP55	165x57x60
KRTV19	Capillary tube thermostat with knob, IP44	165x57x60
S123	Manual switch for 1-2-3 steps, 20A, IP42	72x64x46

KRT1900 KRTV19 S123