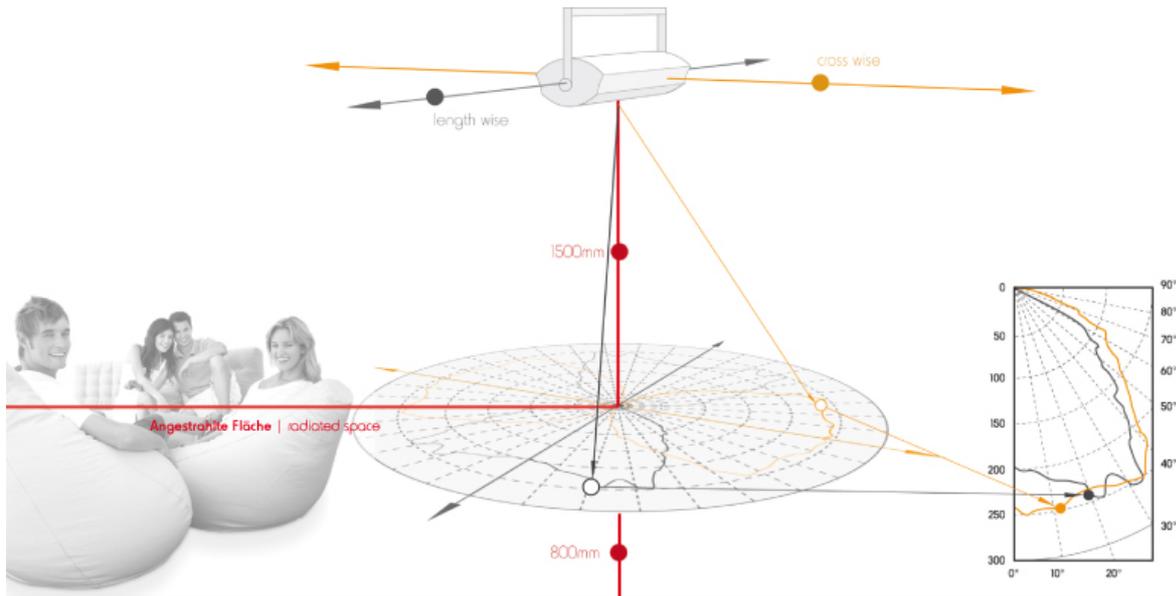


Halogenvärmare Värmeberäkning och jämförelse



The SOLAMAGIC BSD is a 90° section of a polar diagram, a two-dimensional coordinate system in which the irradiance in the direction of the two main radiator axes (cross-wise and length-wise) is defined by an angle and a distance. The BSD gives you an at-a-glance overview of the distribution of radiation over a defined area. All SOLAMAGIC BSD's are based on a distance of 1500 mm between the radiator and the area. This is typically the area in which radiated heat is required.

You can use the following formula to ascertain the distance from the middle of the radiation source in **cross-wise** or **length-wise** direction:

α stands for the angle

r stands for the height of the radiator

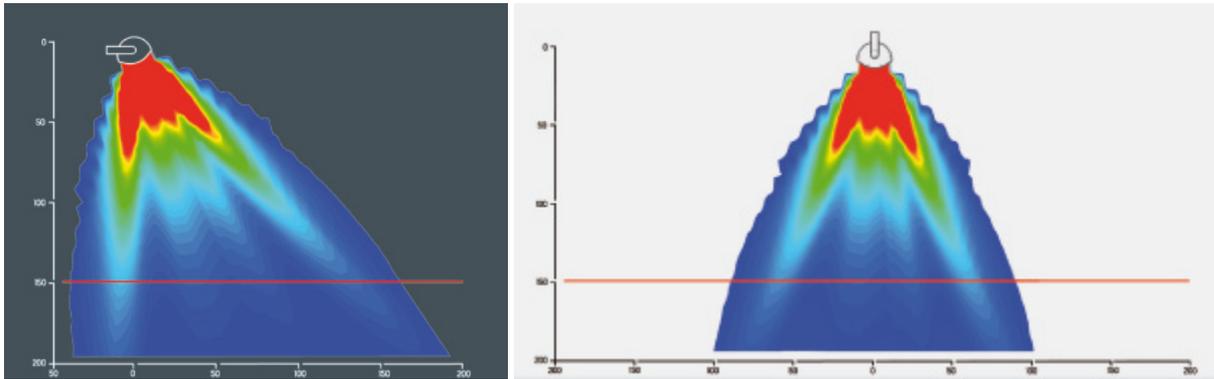
$$\tan(\alpha) * r = \tan(20) * 1500 \text{ mm} = 546 \text{ mm}$$

This comparison of systems clearly shows the highly efficient and environmentally friendly way in which our infrared heating systems work.

Especially outdoors, the flexible range of applications and the comprehensive selection of accessories that our radiators offer, ensure comfortable and constant heating zones.

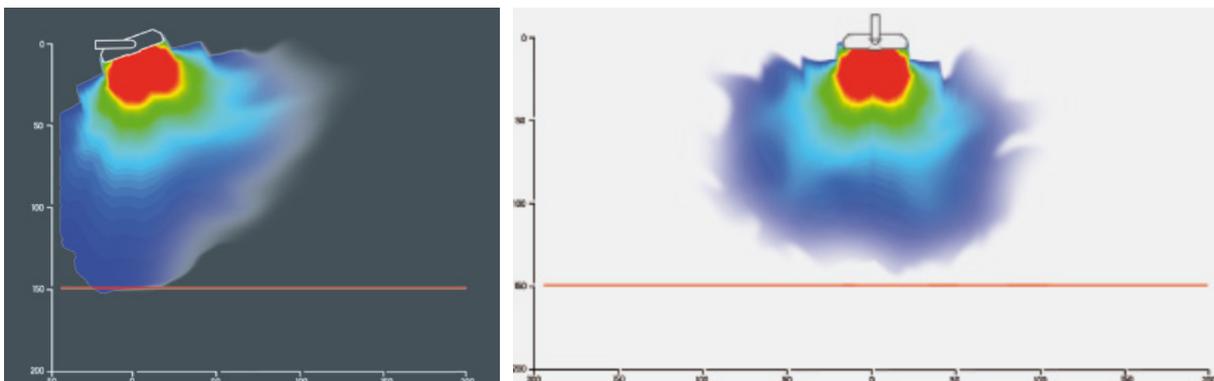


Infrared halogen tube, 1400 Watt ECO+



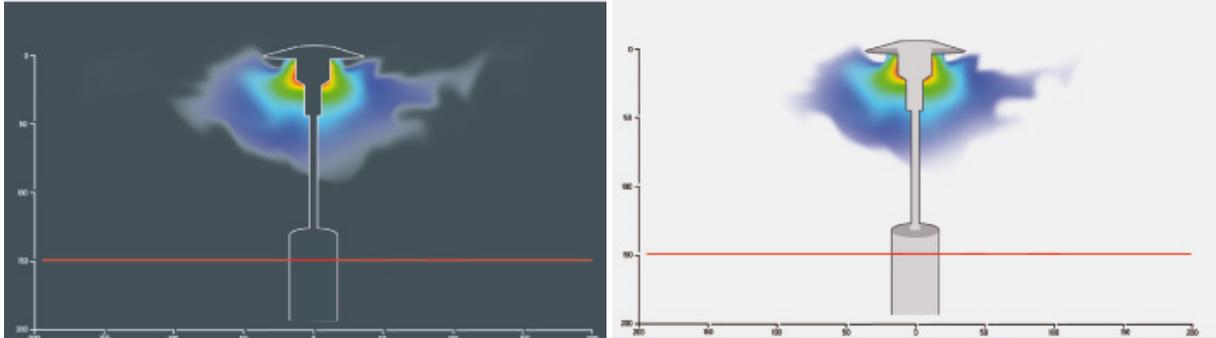
| | |
|------------------------------------|--|
| Emitter: | Infrared halogen tube (1400 watt) |
| Energy/Safety: | The energy source is the socket. No safety concerns. |
| Operating costs (per hour): | Approx. 0,28 € (based on 0,20 €/kWh) |
| CO² emission: | No direct CO ² emission |
| Efficiency: | 92% of the energy consumed will be used on direct heat radiation |
| Installation options: | Can be mounted to walls, ceilings and structures |
| Immediate heated effect: | The warmth is felt immediately as soon as the switch is pressed 1 sec. (90% capacity) |
| Wind sensitivity: | No |

Quartzheater, 2000 Watt



| | |
|------------------------------------|---|
| Emitter: | Quartzheater (2000 Watt) |
| Energy/Safety: | The energy source is the socket. No safety concerns. |
| Operating costs (per hour): | Approx. 0,40 € (based on 0,20 €/kWh) |
| CO² emission: | No direct CO ² emission |
| Efficiency: | Approx. 60% of the energy consumed is used as direct heat radiation |
| Installation options: | Can be mounted to walls, ceilings and structures |
| Immediate heated effect: | Requires a warming-up phase 30 sec. (90% capacity) |
| Wind sensitivity: | High |

Gas heater, 4000 Watt



| | |
|------------------------------------|---|
| Emitter: | Gas heater (4000 Watt) |
| Energy/Safety: | High potential for danger by using gas |
| Operating costs (per hour): | Approx. 1,00 € (based on 11,00 €/11 kg gas and a consumption of 1kg gas/h) |
| CO² emission: | Direct CO ² emission |
| Efficiency: | Approx. 40% of the energy consumed is used as direct heat radiation |
| Installation options: | Assembled on a floor stand, with positioning being restricted. Only outdoor use possible |
| Immediate heated effect: | Requires a long warming-up phase 5 min. (90% capacity) |
| Wind sensitivity: | Very high |