



# INFRARED GARNETA™ LAMPS



**DR. FISCHER**  
Europe S.A.S.

A company of DR. FISCHER Group

# INFRARED GAR

The new DR.FISCHER Garneta™ lamps are the best heating solution for outdoor applications. They are robust short wave infrared halogen emitters that generate heat without bright light.

Our Garneta lamps are suitable for IPX4 luminaires, it can be equipped with weatherproof cap or not. Their top-of-the-range coating offers an exceptional heating performance and a glare reduction of 99%. This creates a relaxing candlelight atmosphere.

DR. FISCHER Garneta™ lamps can be used in any burning position. Their specific design makes them elegant because when lighted, indents are not seeable at all . It's the unrivaled aesthetic aspect, that makes our Garneta™ lamps suiting extremely well to all kind of Comfort Heating applications.

## FOCUSED HEAT

With Garneta lamps, you do not waste money heating empty areas. Instead, you can focus short wave infrared heat onto the exact areas where it is needed. Dr. Fischer Garneta lamps as radiant heat sources offer a number of important advantages: the heat transfer can be directed in any direction by the use of reflectors, just like light. In addition, heat radiation is not affected by draughts or air movements. In other words, the heat goes directly from source to where it is needed.

## ECONOMICAL HEAT

Infrared heating can be applied virtually in any type of building or area where conventional heating cannot be used. It is particularly suited for use in areas which are occupied only intermittently or occasionally, and in draughty areas such as doorways. It is also ideally suited for use in areas which because of their height are difficult, costly or inefficient to heat with conventional means. Garneta lamps are tubular double-ended quartz infrared halogen lamps. These high-efficiency heat sources **convert over 90% of the consumed electrical power into infrared heat**. They also have a constant level of heat output throughout the lamp lifetime.

Garneta Lamps	
Features	Benefits
Glare reduction	Ultra low glare: 99% glare reduction
Easy to install	No fuel storage, compact source, narrow diameter of lamps.
Instant heat	Maximum efficiency less than one second after switching on
Dimmable	Comfortable warmth that is adaptable to match the season
Highly Efficient	>90% of consumed energy converted into infrared heat
Clean	No consumption of ambient oxygen No emission of CO2 & NOx.

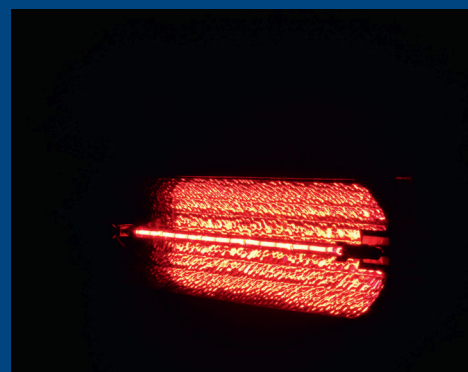


### Application field:

- Stadium VIP stand
- Bar/restaurant terrace
- Market Place
- Factories
- Swimming pool
- Queing area
- Sport area
- Place of worship
- Warehouses
- Transportation waiting booth



Garneta lamp



Garneta lamp in a heater

## Comparison between infrared heating and other emitters technology

Emitter	Halogen lamp	Quartz emitter	Ceramic emitter	Gas burner
Illustration				
Infrared wave	Short wave	Medium wave	Long wave	Medium/long wave
Radiant efficiency	90%	60%	40%	50%
Switch on/off time	< 1 sec	30 sec	5 min	20 sec
Heating principle	Radiation	Radiation & Convection	Convection	Radiation & Convection
Focusing with reflector	Good focusing	Possible	Not relevant	Partially (combustion gases exhaust)
Polluent emission	None	None	None	Emission of CO <sub>2</sub> & NO <sub>x</sub>

DR. FISCHER Europe,

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customized lighting & heating solutions

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