

HeLeN



DR. FISCHER
Group

Infrared
HeLeN™
Lamps

Infrared He

Dr Fischer short wave infrared halogen lamps based on the world-leading HeLeN™ - technology developed and manufactured in our French factory in Pont-à-Mousson for more than 30 years for intense professional utilization. The high quality HeLeN™ lamps are designed to meet the requirements of the most demanding customers of the world. All our HeLeN™ lamps are low glare emitters and can be customizable for your application. Our HeLeN™ range is recognized as a French top quality solution.

They are:

- Made in France, only one factory in Europe can produce the HeLeN lamp.
- Ecological
- Reliable
- Comfortable
- Weatherproof (optional) , suitable IPX4 luminaire

FOCUSED HEAT

With HeLeN lamps, you do not waste energy: short wave infrared heat is focused exactly on the areas where it is needed.

Dr. Fischer HeLeN lamps offer a number of important advantages: the heat transfer can be focused in a precise direction by the use of reflectors, just like light. In addition, heat radiation is not affected by draughts or air movements. In short, the heat goes directly from source to where it is needed.

HeLeN lamps	
Features	Benefits
Glare reduction	Ultra low glare: 95% 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:

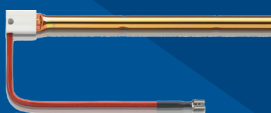
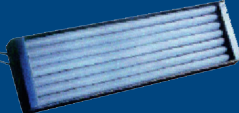
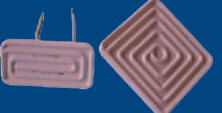

- Factories
- Exhibition halls
- Terraces
- Railway stations
- Market halls
- Warehouses
- Churches
- Sports facilities

ECONOMICAL HEAT

Infrared heating can be applied in virtually 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 where it is difficult to implement conventional means for example areas with large height.

HeLeN 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.

Comparison between various technology

Emitter	Halogen lamp	Quartz emitter	Ceramic emitter	Gas burner
Illustration				
Infrared wave	Short wave	Medium wave	Long wave	Medium/long wave
Radiant efficiency	92%	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 ₂ & NO _x

DR. FISCHER Europe,
development & production partner of your
customized lighting & heating solutions

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