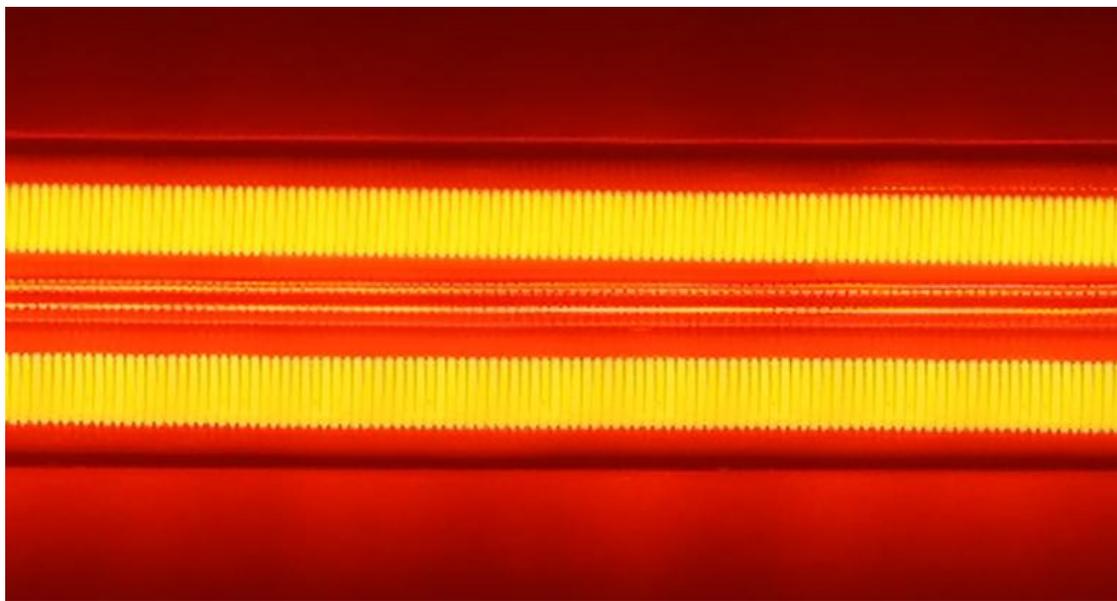




安徽蒯科砾工业加热技术有限公司

Twin Tube Medium Wave Infrared Heater Lamps



Add: C34,Jia Hai Industrial Park,Xin Zhan District,Xin road,Hefei city,Anhui,China

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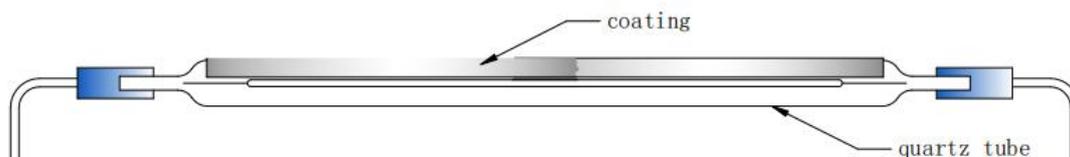


Parameters of twin tube medium wave IR lamps

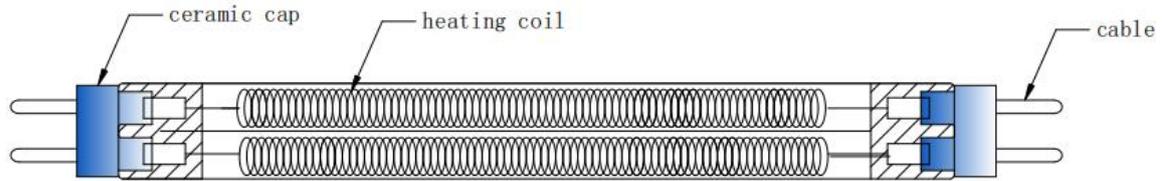
Production Description	Twin Tube Medium Wave IR Lamp		
Wavelength	2.2-3.5um		
Tube Diameter	18*9mm	23*11mm	33*15mm
Overall Length	80-1500mm	80-3500mm	80-6000mm
Heated Length	30-1470mm	30-3470mm	30-5970mm
Tube Thickness	1.2mm	1.5mm	2.2mm
Max Power	35w/cm		
Filament Temp	500-950°C		
Connection Type	lead wire at one or two sides		
Tube Coating	transparent, gold coating, white coating		
Voltage	80-750v		
Cable Type	1. silicone rubber cable 2. teflon lead wire		
Installing Position	Horizontal		
All you wanted can be found here - customized service			

Construction of twin tube medium wave IR heater lamps

Twin tube medium wave infrared heater that consists of a helical wound resistance coil housed in a quartz tube. The quartz tubing is terminated with ceramic insulating caps, they are are tightly fastened to the quartz tube with high temperature cement that allows the quartz to breathe.

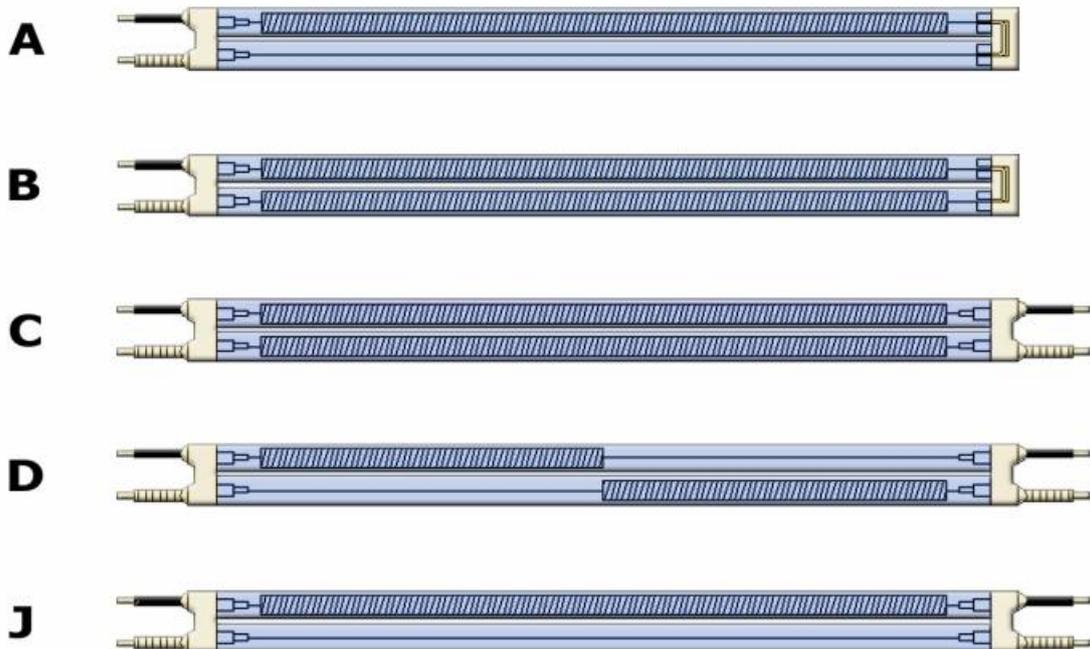


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Twin tube medium wave IR emitters are constructed in a figure 8 quartz section, which results in high strength design, extra rigidity over long lengths up to 4meters. The twin tube design offers a number of advantages including rigidity, robust, but also the ability to manufacture many different configurations.

Twin tube IR emitters with different filament configuration it can be made single side or two sides cable connection, and different heating channel. this allows an extraordinary flexibility both in term of heated area modularity and cables position. In the picture below there are represented some of the most common filament configuration.



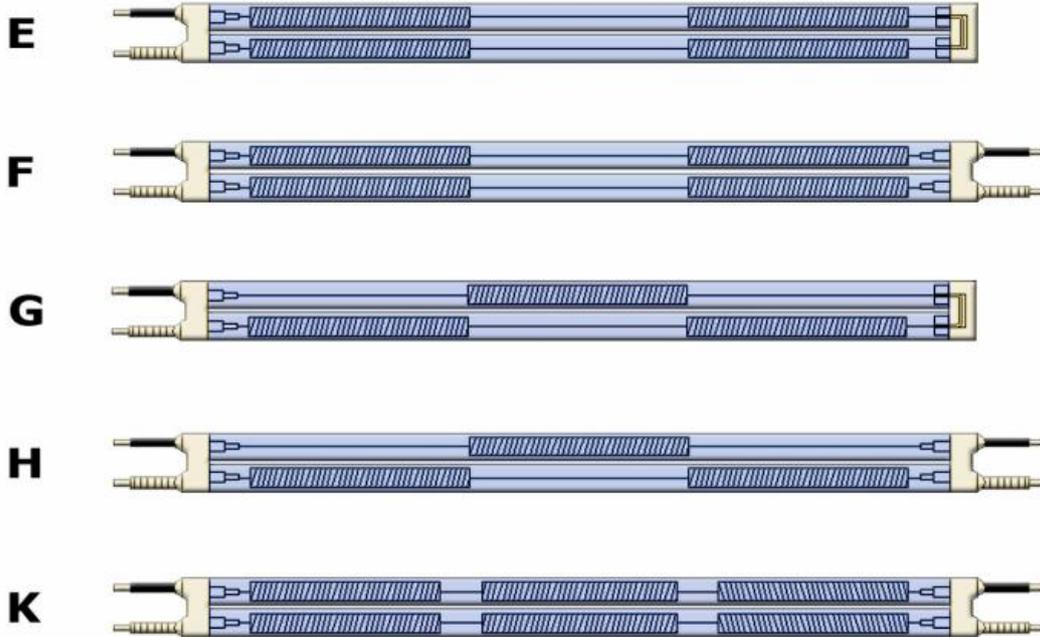
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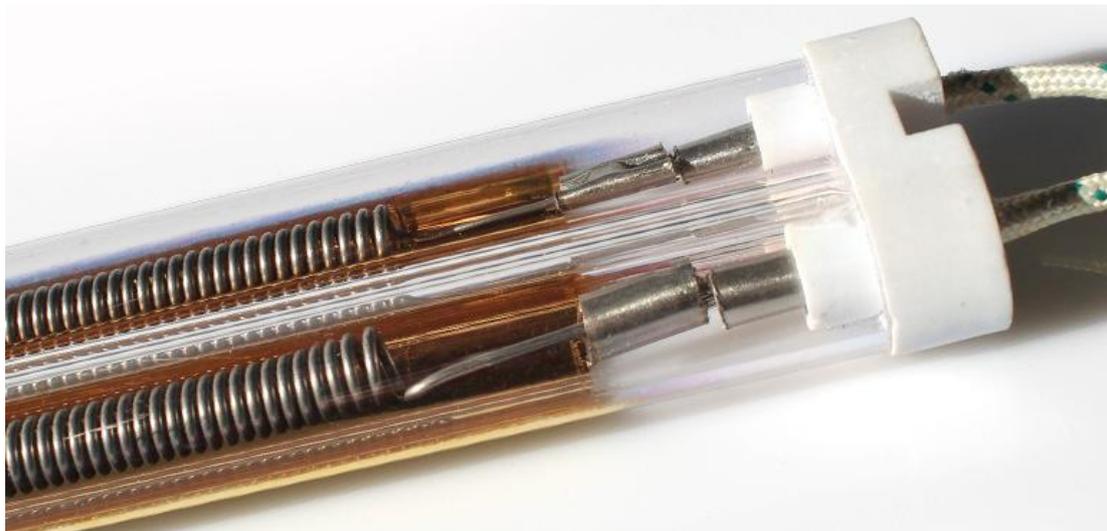
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Twin tube IR heaters distinguish themselves by their high stability and power density. In addition, because of gold coating and ceramic white coating, the radiation is precisely directed and the efficiency significantly increased. The heaters can be manufactured in various designs and dimensions to suit all geometrical requirements.

Gold coating



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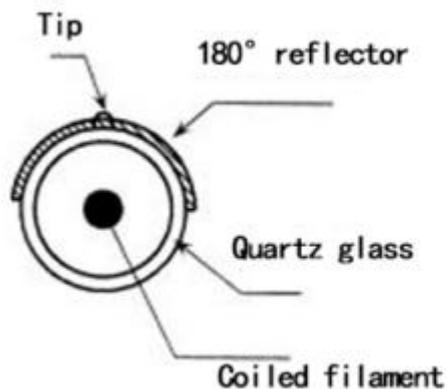
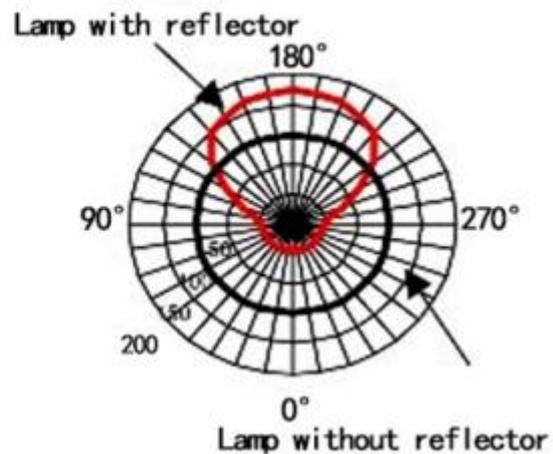
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Ceramic white coating

**Benefits of coating**

QUICKLY offers infrared emitters which coated with gold and white reflector , they can emit heat directly to the product. A gold or white coating on the quartz glass infrared emitters reflects the infrared radiation. Consequently the infrared radiation impinging on the product is virtually doubled, increasing the effectiveness of the heat output.

Cross-section of lamp with reflectorEfficiency of reflector

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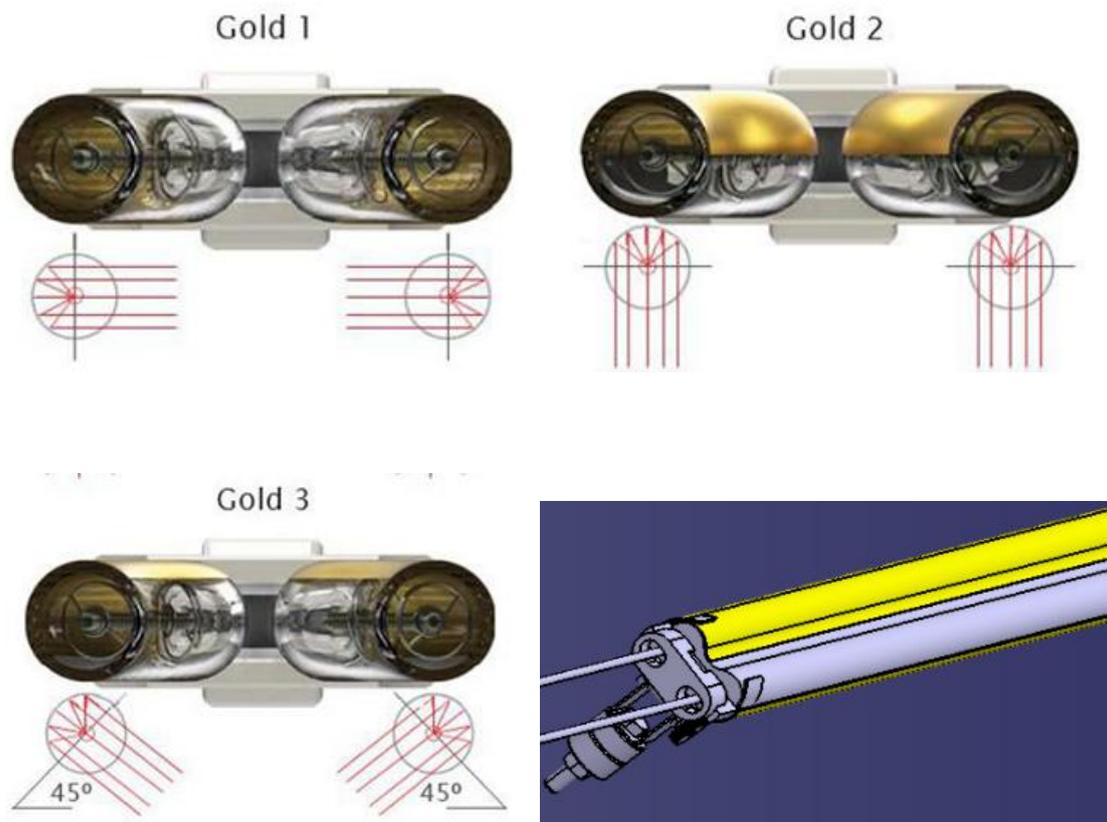
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Differences

The reflection efficiency of gold coating is higher than white coating, while for the emitters with high watt density or the surface temperature of the tube above 600°C , we suggest to use ceramic coating as reflector because its temperature resistance is up to 1000°C, gold coating will volatilize at a short time because of its characteristic.

In addition to 180° (half-tube) coating, we also manufacture infrared heater lamps with 270° coating or other customer specified degrees.



Wavelength and Applications

The peak wavelength of IR medium wave emitters is approximately 2.2 microns, as a result, medium wave IR lamps are particularly suitable for the fast heating of surface parts or thin thickness materials. Plastic, water and other solvents absorb particularly well the radiation at this wavelength.

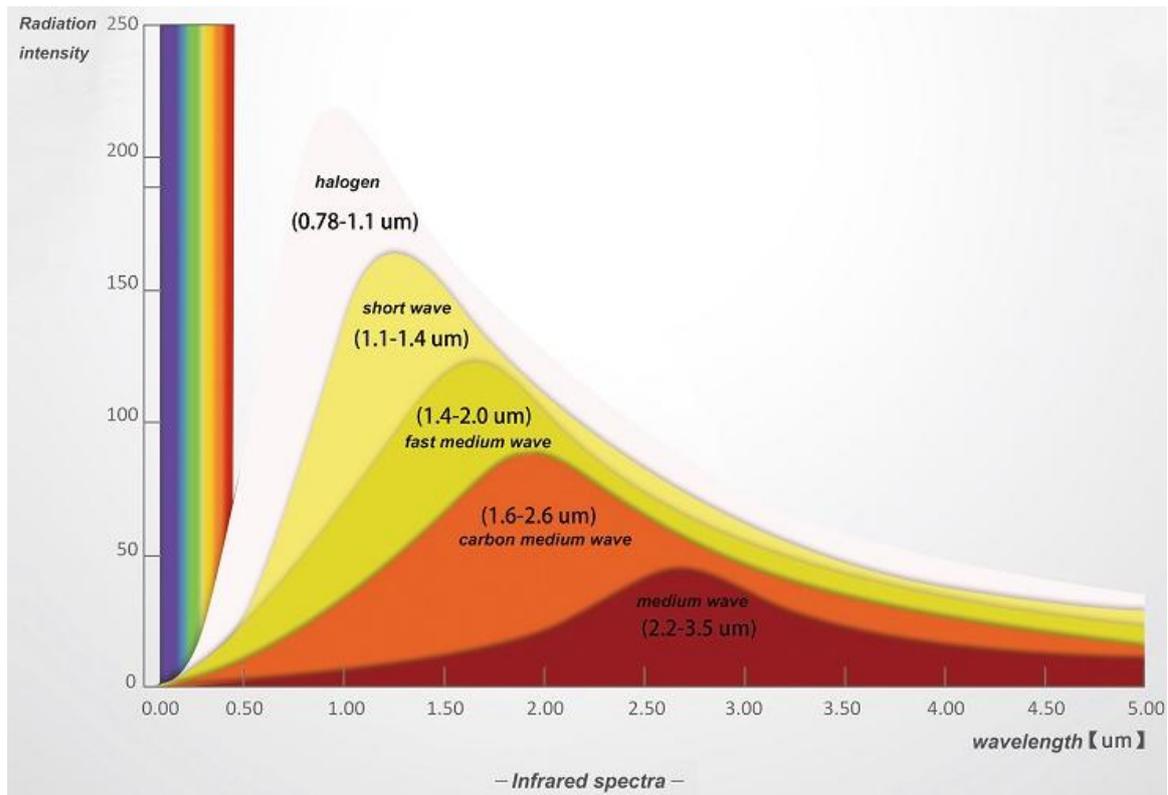
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Depending on the temperature of the heating element, an infrared emitter delivers distinctly different radiation at various wavelengths.

To achieve successful process heating, it is important that the infrared emitter is carefully matched to the properties of the product to be heated in terms of its wavelength, its shape and its power output. Radiation which precisely matches the absorption characteristics of the product is quickly converted into heat in the product, without unnecessary heat being transferred to the surroundings.

Medium wave radiation is absorbed mostly in the outer surface and predominantly heats the surface. Medium wave radiation is particularly well absorbed by many plastics, glass and especially water and is converted directly into heat.

QUICKLY can design the right IR emitter with the peak radiation wavelength matching the optimal absorption curve of the material to be heated, this allows you to obtain the most efficient heating process with less energy consumption.

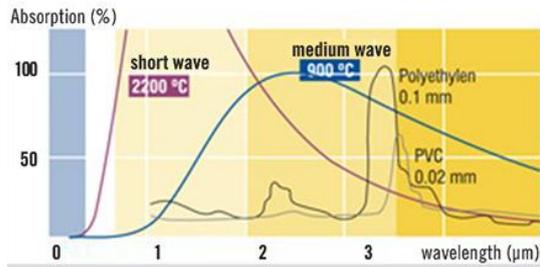
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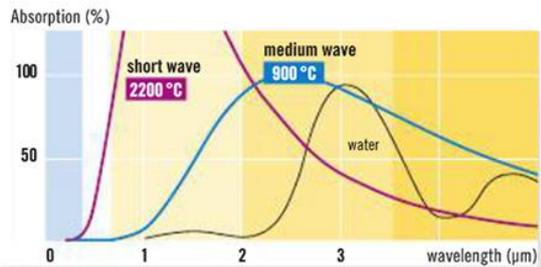
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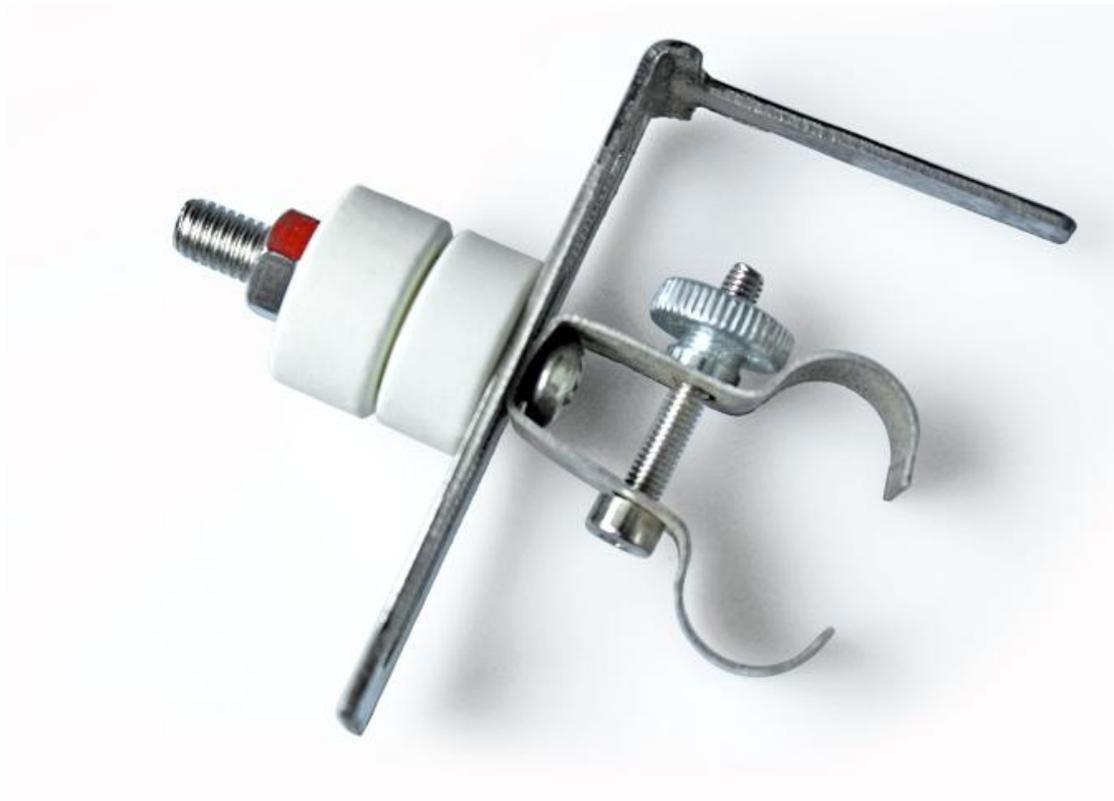


Plastics such as polyethylene and polyvinylchloride are particularly good absorbers of infrared radiation in the medium wave region.



Water evaporates more quickly with medium wave infrared emitters as water absorbs radiation particularly well in this region.

Mounting clips



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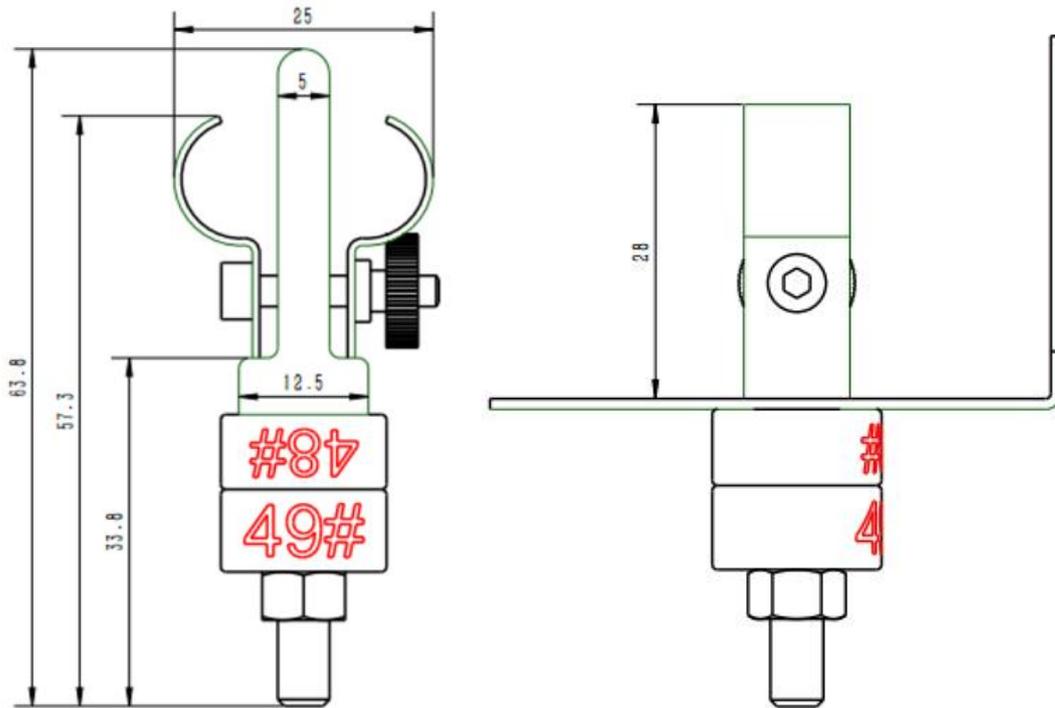
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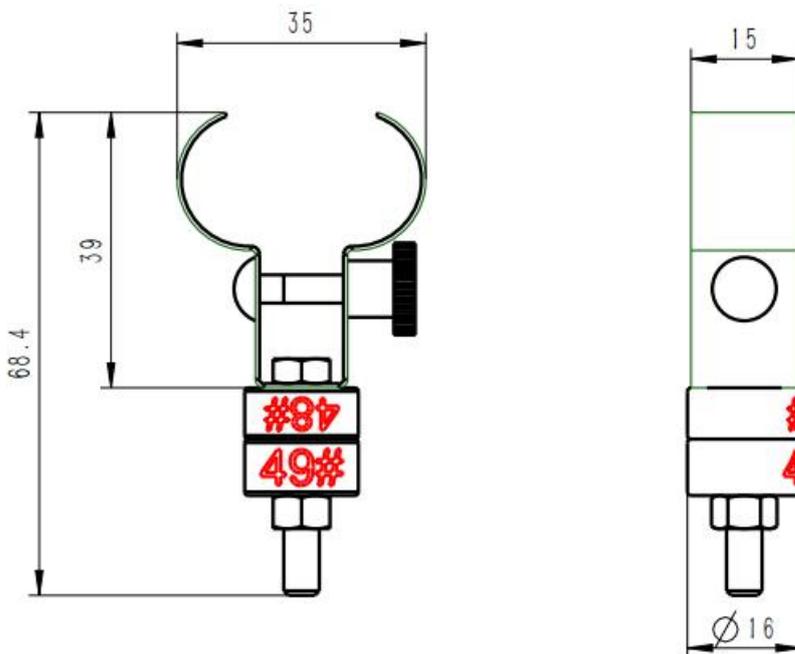


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Clips for lamp diameter 23*11mm



clips for lamp diameter 33*15mm



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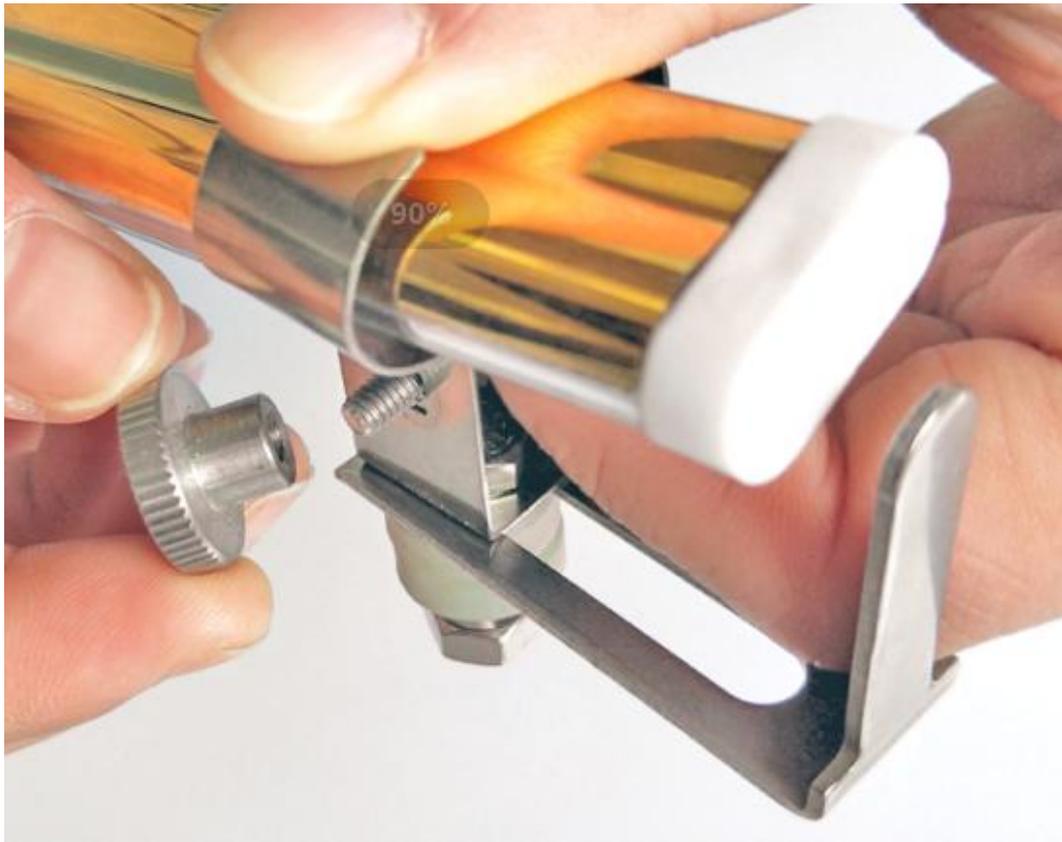
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Quickly

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Package



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