

**General characteristics**

IRCM and IRCC infrared emitters are manufactured with two types of tungsten filaments: porcupine or star type for rapid medium wave emitters and spiral type supported for halogen short wave emitters.

Heating and cooling of the emitters takes a few seconds, making them especially suitable for systems requiring short cycle times

The choice of emitter type (medium or short wave) depends on absorption of material, specific heating needs, process speed and type of application.

**Advantages**

- Heating energy transfers so rapidly to the object that its surface reaches curing time with a minimal heating of the support.
- Minimum thermal inertia.
- Accurate adjustment and energy saving
- High quality in the finish of the treated product
- Heating localised on surface and in depth
- Reduced size of installations
- No environmental contamination or harmful action on foods

**Normal applications**

- Preheating and heating.
- Drying
- Polymerisation.
- Heat-fixing.
- Cooking
- Defrosting.
- Toasting
- Sterilising.
- Dehydrating.
- Fusion.
- Sealing

**Applications in industry of:**

- Glass
- Paper.
- Plastic.
- Paint.
- Graphic arts.
- Textile.
- Rubber.
- Metal.
- Ceramics.
- Wood, etc...

**MEDIUM WAVE INFRARED EMITTERS, IRCM MODELS**

**Specific characteristics**

The tungsten filament used in these heaters is porcupine or star type. It can work with temperatures up to 1500°C, with a wavelength emission peak of about 1.6 μm.

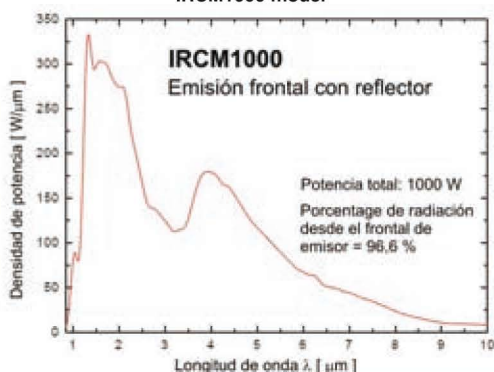
Response time is a few seconds.

Apart from achieving excellent structural rigidity, the porcupine type spiral is designed to reduce to a minimum light emission and maximise IR emission, thus increasing IR radiant efficacy.

- Minimum thermal inertia.
- Manufactured in transparent quartz crystal
- Connection by R7screw fittings.
- To order, the tubes are manufactured to the client's requirements, with wattage, voltage, length etc able to be varied.



**Spectral field wavelength curve for the IRCM1000 model**



Code	Volts	Watts	Dimensions in mm			Maximum temperature's wire
			Ø tube	Total length	Heating length	
IRCM750	~230 V	750	10	277	225	1210 °C
IRCM1000	~230 V	1000	10	277	225	1450 °C
IRCM1500	~230 V	1500	10	473	415	1270 °C
IRCM1750	~230 V	1750	10	473	415	1470 °C
IRCM2000	~230 V	2000	10	473	415	1500 °C

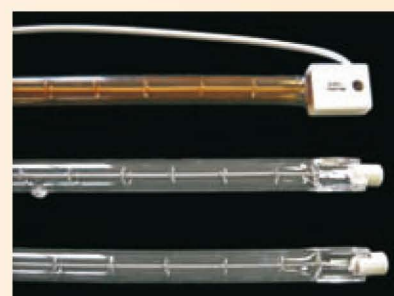
**SHORTWAVE INFRARED EMITTERS, IRCC MODELS**

**General characteristics**

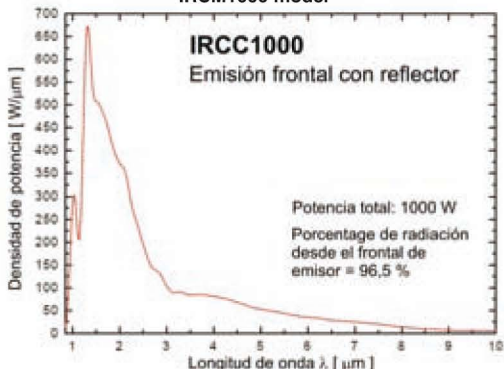
IRCC shortwave infrared halogen emitters allow the tungsten filament to reach temperatures up to 2600°C, with a wave length emission peak approximately 1.0 μm.

With an extraordinarily quick response time, they allow On/off cycles suitable for any application.

- Minimum thermal inertia.
- Manufactured in transparent quartz crystal
- Connection by R7screw fittings.
- To order, the tubes are manufactured to the client's requirements, with wattage, voltage, length etc able to be varied.



**Spectral field wavelength curve for the IRCC1000 model**



Code	Volts	Watts	Dimensions in mm			Maximum temperature's wire
			Ø tube	Total length	Heating length	
IRCC1000	~240 V	1000	10	277	235	2410 °C
IRCC2000	~240 V	2000	10	473	425	2250 °C

