

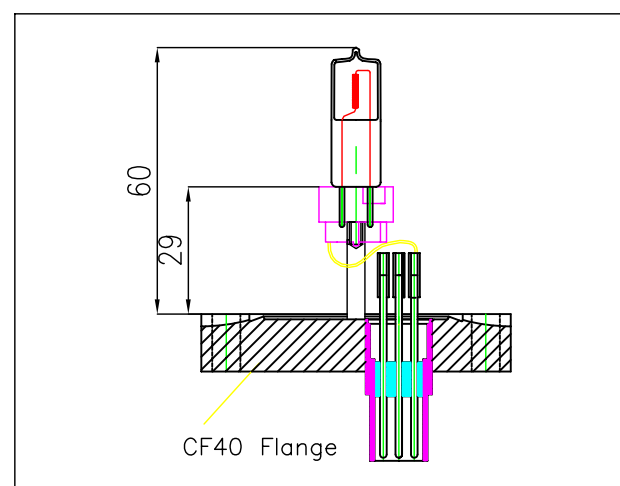
## UHV LAMP

- Mounted on CF40 I.D. flange for operation in the ultra high vacuum range
- 50 W of power lighting
- Bakeable up to 250°C
- Low voltage power supply

## LIGHT SOURCE

To light the inside UHV chamber is possible warming up to emission temperature a simple filament of refractory metal as W, Mo, Ta. Unfortunately the filament, owing to the high temperature, reacts with the ambient, and more itself emits gas that may disturb the UHV processes.

A lamp with a quartz bulb overcomes these problem because its outgassing is negligible and the quartz chemical inertness assures the cleanliness of the environment.



## LAMP SPECIFICATIONS

Quartz lamp power	50W
Voltage	12V
Lamp holder	ceramic
Flange	CF40 ID
Atmosphere plug included	

## POWER SUPPLY SPECIFICATIONS

3U-19" Rack cabinet	
Input	230V-50Hz
Output	12V-50Hz



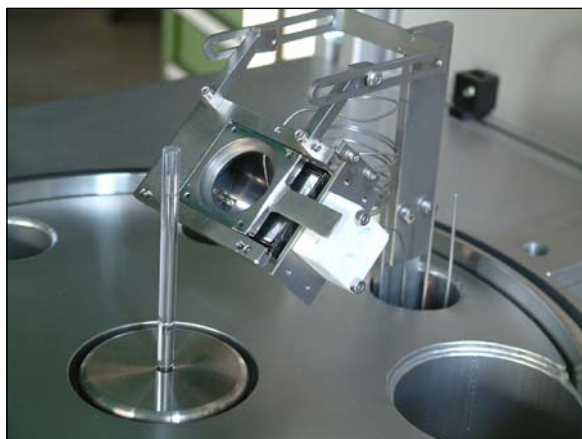
## LAMP POWER SUPPLY

Low voltage supply has been adopted both for safety both to reduce the possibility to start plasma arcs owing to the high voltages.

MODEL	ORDER CODE
Quartz lamp on CF40 flange	ZZ 193
Lamp power supply	ZZ 193 PS

# 1000°C INFRARED FURNACE

- UHV operation
- Very clean
- Bakeable up to 450°C
- Fast power control



To operate in UHV, this infrared furnace is realized with an IR quartz lamp surrounded by four screens. Two holes in the screens let to introduce the IR lamp and the IR energy to be collect on the sample holder. The lampholder is made in Macor and the screens are made in Inconel.

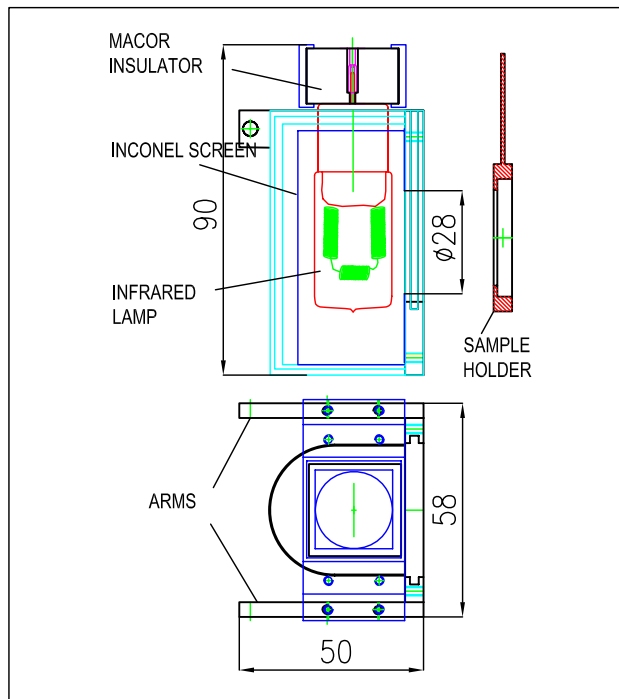
A K thermocouple inserted near the lamp, measures the temperature.

All the other parts are realized in AISI 316L.

On a CF40 flange are welded :  
the support, the power and the thermocouple feedthroughs

## SPECIFICATIONS

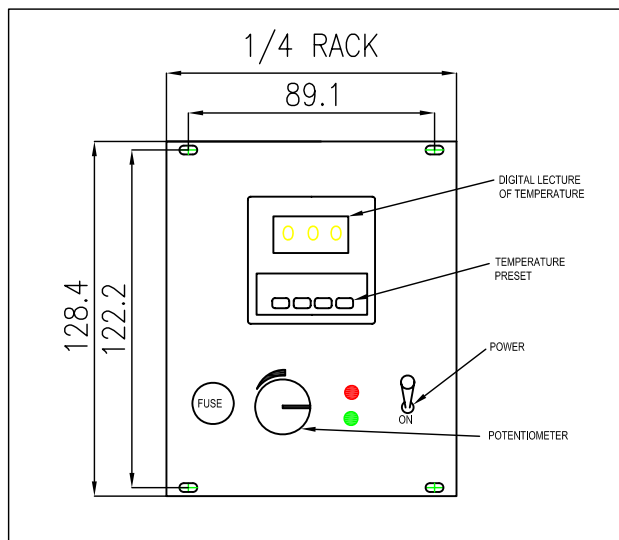
Quartz lamp power	600W
Voltage	230V
Lamp holder	Macor
Flange	CF40 ID
Screens	Inconel
Supports	316L StSt



1000°C IR Furnace



The IR power supply is mounted in 3U-1/4rack 19" cabinet. A PID controller is programmable in the front of the panel.



IR 1000 Power Supply

MODEL	ORDER CODE
1000°C Infrared Furnace	ZZ 203
1000°C IR Furnace Power Supply	ZZ 204