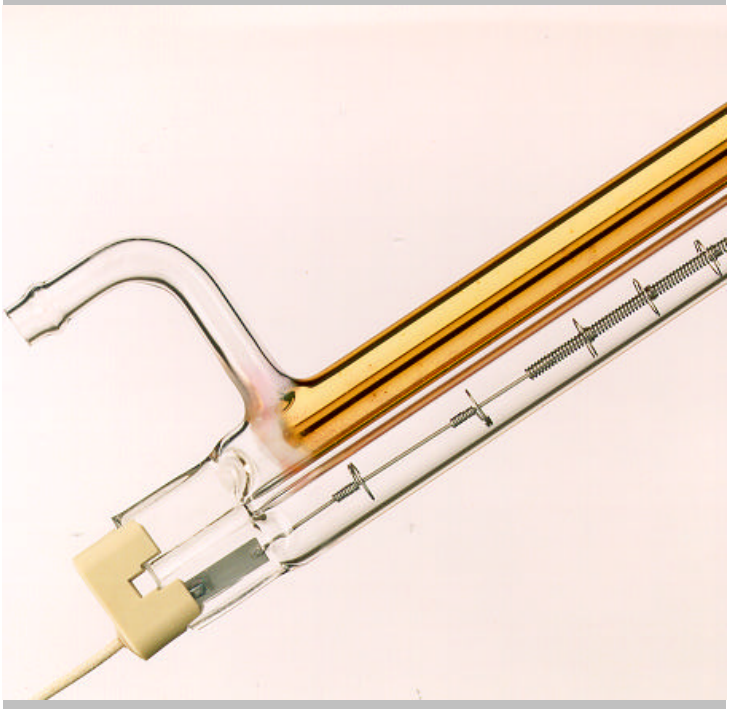
Heraeus



The Water-cooled Infrared High Power Emitter

Infrared emitters with very short wavelength emission spectra have been used successfully for many finishing processes.
Heraeus Noblelight has fitted the proven twin tube emitter with water-cooling. With this design, surface power densities of up to 1.2 MW/m² are possible.

Due to their rapid heat-up rates, temperatures greater than 1000°C can be achieved within seconds in the product to be heated.

- Surface power densities up to 1.2 MW/m²
- Very fast heating up and cooling down
- Significant reduction in heating times

Typical Applications
The new water-cooled high power emitter is suitable for all finishing operations which require very rapid heating.

- Coil coating
- Edge coating on woods
- Surface sealing

Because of its design and construction, the water cooled high power emitter is well suited for heating processes in vacuum.

Technical Data

- Short wave
- Twin tube, 34 x 14 mm
- Gold reflector
- Power of 190 W/cm
- Can be used with all the usual supply voltages
- Heated lengths up to 1500 mm

Infrared heating technology means applying heat only where it is needed, at the optimum wavelength for the material, in line with the process.

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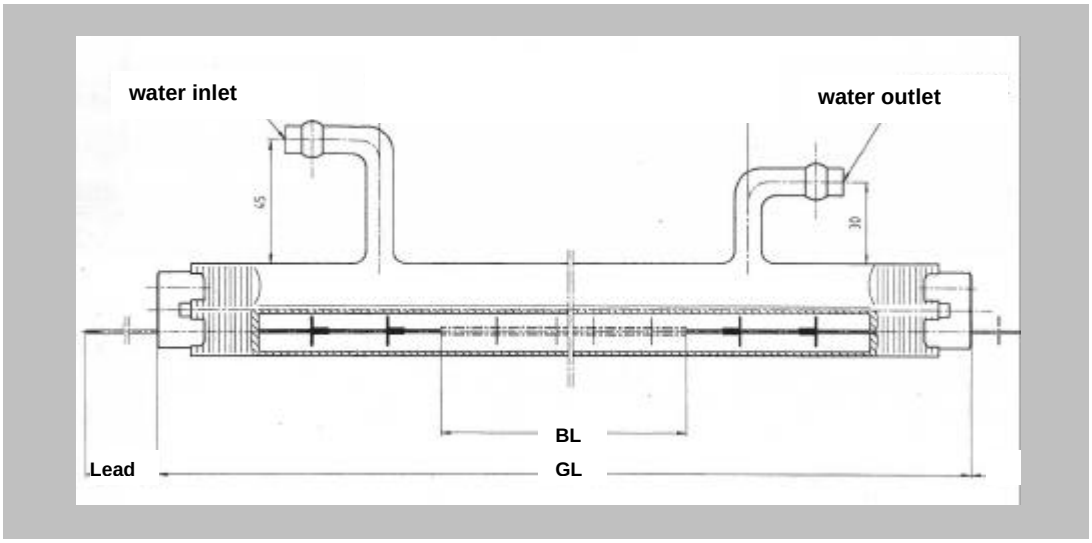

Standard Models

Heated Length BL	Total Length GL	Voltage	Power Rating	Order Number
800 mm	1010 mm	600 Volt	15 kW	8000 7962
530 mm	740 mm	400 Volt	10 kW	8000 7964
310 mm	520 mm	230 Volt	5,8 kW	8000 7965
150 mm	360 mm	115 Volt	2,9 kW	8000 7966

These are our standard models. If you want other power ratings or lengths, please ask !

Emitter Installation

Cooling water flow per emitter:
< 500mm heated length, 2-3 litres/min
> 500mm heated length, 4-6 litres/min

Inlet temperature: 10-25°C
Return temperature: < 60°C

Operating life: 1500 hours approx.

Tests in the Application Center
Heraeus Noblelight can carry out customer tests with the newly developed high power emitters in our in-house application center. All measurements and evaluations are computer-supported and are carried out under the guidance of experienced technicians and applications specialists.

Don´t hesitate to contact us !

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