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MEDIUM PRESSURE MERCURY VAPOR LAMPS MODEL HPML

Medium pressure mercury UV lamps are mainly used for two applications:

- For UV curing & drying
- For UV disinfection & oxidization



Two different sealing systems



The main features of the medium-pressure UV lamps manufactured by Helios are as follows:
Quartz tubes: • Natural Quartz (OF) • Natural Quartz (OG) • Synthetic Quartz (OG)
Outer diameter (OD) of the quartz tubes from 10 mm to 38 mm
Arc length from 50 mm to 2500 mm and Power range from 100 W to 60 kW
Shape of the lamp body: • Linear • U form • Spiral • Other forms available upon request
Max nominal power density per unit length (to be checked in the prototyping stage): • from 80 W/cm to 300 W/cm* • from 80 W/cm to 120 W/cm** • from 80 W/cm to 250 W/cm***
Useful life (lab tested and according to the power of the lamp - one ignition per day): • from 1000 h to 1500 h* • from 1500 h to 5000 h** • from 1500 h to 5000 h***
Surface temperature (lab tested and according to lamp power) from 600°C to 900°C

OF Ozone Free - OG Ozone Generating - * Curing lamps - ** Disinfection lamps - *** Oxidation lamps



Code of the lamp to be replaced

5 Ceramic caps



For special applications, in addition to the usual mercury lamps, Helios has developed a series of UV Lamps (Metal Halide) adding doping elements (metal halide) that change the spectrum of ultraviolet radiation, thus optimizing it for different possible applications.

UV MEDIUM PRESSURE MERCURY VAPOUR LAMPS

These UV lamps, emit across the entire spectrum of ultraviolet light (UVA, UVB and UVC) with peak emission in the UVA range at 366 nm.





UV MEDIUM PRESSURE LAMPS GALLIUM DOPED

The metal halide UV medium pressure gallium doped lamps emit UV radiation with peak emission in the UVA range at 420 nm.

UV MEDIUM PRESSURE LAMPS LEAD DOPED

The metal halide UV medium pressure lead doped lamps emit UV radiation with peak emission in the UVA range at 357 nm and 420 nm.





UV MEDIUM PRESSURE LAMPS IRON DOPED

The metal halide UV medium pressure iron doped lamps emit UV radiation with peak emission in the UVA range at 366 nm and 440 nm.

