Dr. Gröbel
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we apply photonics.

UV Irradiation Chamber BS-08

Abb. 1: UV irradiation chamber BS-08 with water-air cooler

The irradiation chamber BS-08 is a powerful equipment for highly intense UV irradiation of small and midsize parts. Typical UV irradiances are about 100 mW/cm^2 on an irradiated area of 8 x 12 cm.

Parts are inserted into the irradiation chamber by a drawer. Within the irradiation chamber, the parts are blown with cooled dry air to avoid to strong heating during irradiation. The cool air is subsequently used to cool electronics and lamp. Lamp power is reduced in between the irradiations. Efficient cooling and power reduction contribute to a long lamp lifetime.

The lamp can be exchanged within a few minutes using the plug-in lamp module. The lamp power is controlled to guarantee constant irradiation.

Applications

- Hardening of contact lenses
- Hardening of UV glues and polymers
- Irradiation of semiconductors
- Irradiation of biological and medical samples

Technical Data

Irradiated area:	8 x 12 cm
Irradiance:	typ. 100 mW/cm^2 UV
Cooling air temp.:	15 °C
Dimensions:	55 x 55 x 71 cm
Weight:	ca. 60 kg
Mains:	230 VAC, 10 A
Power consumption:	about 1500 W
Lamp:	1 kW Hg high pressure
Lamp lifetime:	typical 1,500 hours
Operation temp.:	10 to 40 °C
Humidity:	< 80% Non-condensing

Part number

Irradiation chamber BS-08	860808

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