

High-power UVC chamber BSH-02

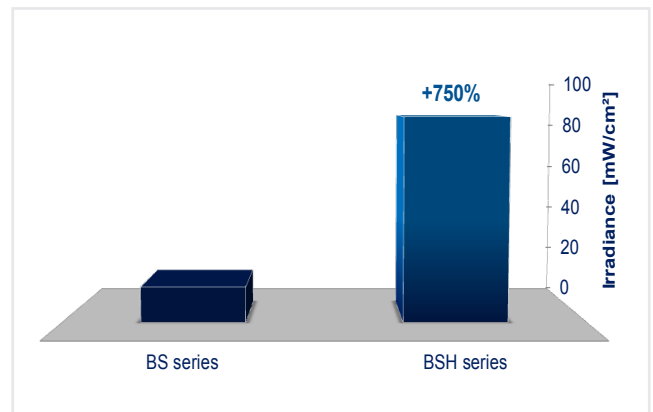


High-power UVC chamber BSH-02

The irradiation chamber BSH-02 is a high-powered UVC chamber with superior irradiance of 85 mW/cm². Like all BS irradiation chambers, the BSH-02 offers time- or dose-controlled irradiation of samples with UV light. The chamber is fully equipped with ozone-free UVC amalgam lamps with a total lamp power of 750 W. Compared to our standard BS series, the BSH-02 offers irradiance that is 750% higher. Thus, the irradiance is high enough for high-energy applications or UV curing.

The BSH-02 has compact outer dimensions and the interior irradiation chamber has a base area of 46 x 32 cm and a height of 25 cm. The sample chamber operating temperature is about 45°C so that thermal damage to the specimen is minimized. Due to the high uniformity of the irradiation, the samples may be positioned in any order.

The optional UV-MAT irradiation control can control the dose to obtain a constant result regardless of lamp aging, pollution, or temperature.

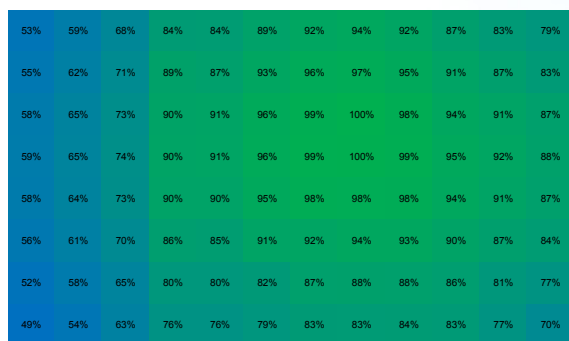


UVC irradiance compared to BS series

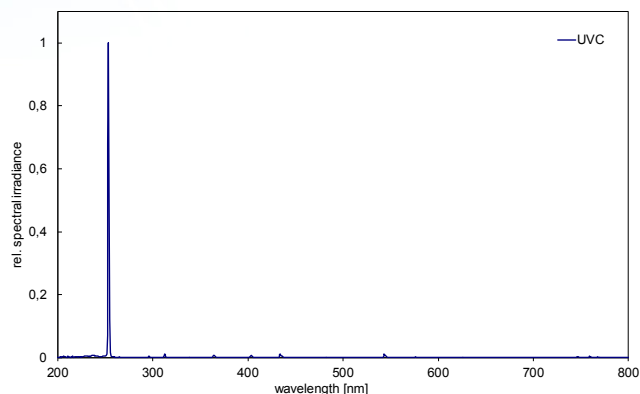
Applications:

- UV-C curing, sealing and bonding
- Irradiation of bacteria and spores
- UV-C materials testing
- Disinfection

TECHNICAL DATA



Uniformity of irradiation



Spectrum UVC

SPECIFICATIONS

Interior chamber	46 x 32 x 25 cm
Dimensions	55,5 x 40 x 43 cm
Weight	~ 32 kg
Power consumption	1000 W
Mains	230 V _{AC} , 6 A
	110 V _{AC} , 12 A, optional
Operation temperature	10 to 40 °C
Humidity	< 80% non-condensing
Lamp lifetime	up to 8.000 h
Number of lamps	5
Lamp type	UVC amalgam, ozone free
Lamp power	150 W each
Sample temperature	45 °C +/- 5 °C
Spectra range	1 (UV-C)
Irradiance UVC	85 mW/cm ²

SCOPE OF DELIVERY

BSH-02, cable, manual, UVC lamps (ozone free, if not specified)

PART NUMBERS

BSH-02	860802H
UV-MAT	820220
Radiometric sensors	8110XX
Sensor holder	86080H
Dimming	86080D
Timer	86081T

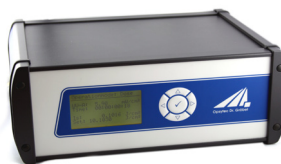
Listed irradiance values are max values.

ATTACHMENTS & OPTIONS

The irradiance chamber is modular expandable and thus optimal for different applications.

UV-MAT

UV-MAT irradiation control continuously measures the irradiance and determines the irradiation dose regardless of lamp aging, pollution, or temperature. Irradiation is stopped at set target dose.

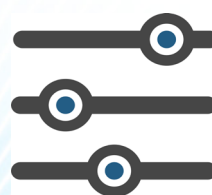


SENSORS

Calibrated radiometric sensors are available. The integrated diffuser ensures the required cosine correction. Excellent long-term stability is achieved through the use of appropriate materials. The sensors are calibrated with traceability to PTB (the German national test authority); after being calibrated, they are supplied with a factory calibration certificate.



DIMMING



With the option of the lamp dimming the irradiance can be varied. The setting can be done at the UV-MAT.