Heraeus

Disinfection of packaging materials with BlueLight® UV-cassettes – fast, cold and without the use of chemicals

Short-wave UV radiation has an intensive germicidal effect. Microorganisms such as viruses, bacteria, yeasts and fungi are killed in seconds without any need for chemicals. Disinfection with ultraviolet light is an economical and environment-friendly alternative to frequently used chemical processes.

BlueLight UV-cassettes – features and benefits:

- Heraeus equips the BlueLight cassettes with intense UV amalgam lamps. The cassettes emit a strong but cold UV radiation ideal for the disinfection of heat sensitive packaging materials.
- Disinfection with BlueLight UV radiation is economical: low investment and operating costs.
- UV disinfection is an ecological method: chemicals are not involved, the environment will not be polluted.
- The disinfection effect has been examined and certified by the "Fraunhofer-Institute for Food Technology and Packaging".
- Irradiation time required for the disinfection of foils: approx. 2 seconds
  Irradiation time required for the disinfection of cups: up to 6 seconds
- The intensity of the BlueLight UV cassette can be easily controlled with a commercial handheld UVC-Meter.
- UVC-radiation can be screened even by transparent materials (such as the plastic "Makrolon®").
- Its compact construction allows quick retro-fitting into existing filling and sealing machines.
  Several UV-cassettes can be installed to achieve the required UV dose.

BlueLight UV cassettes
NG 5036, NG 6062 and NG 7087
with 2 amalgam lamps

BlueLight UV cassette
NG 8062.30
with 8 amalgam lamps

BlueLight UV cassette
NG 10087.38
with 10 amalgam lamps

The BlueLight UV module consists of an UV cassette with air cooling and a power supply.

Technical Data

Bluelight Cassette	**Unit**	**NG 5036**	**NG 6062**	**NG 7087**	**NG 8062.30**	**NG 10087.38**
Number of Amalgam lamps		2	2	2	8	10
Size of the window	mm	365x107	615x107	865x107	615x298	865x372
Size of the cassette	mm	111x150x530	111x150x780	111x150x1030	155x360x780	171x434x1030
UVC-irradiance at a distance of 20 mm	mW/cm²	18	25	25	35	35
UV emission	nm	254	254	254	254	254
Warm-up time	min	5	5	5	5	5
Useful lamp life*	h	4000	4000	4000	4000	4000
Window temperature	°C	70	50	50	60	60
Weight	kg	7,5	10,5	13	17	26
International protection class		IP 55	IP 55	IP 55	IP 55	IP 55
*with 40% reduction of UV-intensity						
Air cooling with ambient air		convection	forced cooling with air fans			
Power supply						
Connected load	Watt	140	250	250	1000	1400
Nominal voltage	V, Hz	230, 50/60	230, 50/60	230, 50/60	230, 50/60	230, 50/60

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Reg. No. 39254

Safety Information: UV radiation is harmful to the eyes and the skin. Consequently, appropriate safety measures must be employed whenever UV lamps are operated. Never look into UV radiation without eye protection and cover any parts of the body which are exposed to radiation. UV radiation at 254 nm can be screened by normal glass, transparent plastic, such as "Makrolon®", and practically all opaque materials.

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