

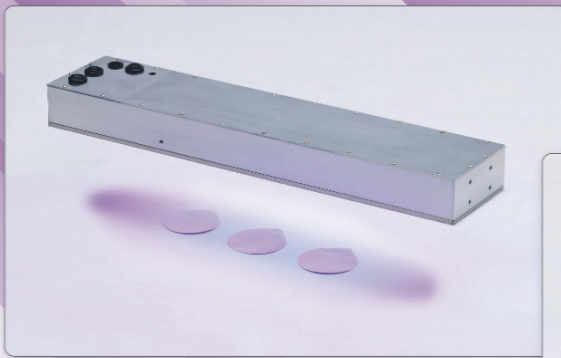
Mercury-free

UV-C LED Sterilizer

Sterilization image of

CUP FILM CAP

Using UV-C LED sterilizer



» Benefits of the UV-C LED Sterilizer

Reduced Environmental Impact Through Mercury-Free Operation

- ▶ UV-C LED sterilizer reduces environmental impact by replacing mercury lamp sterilizer, for which no alternative technology previously existed.

High sterilization efficiency with low energy consumption

- ▶ Sterilizes target bacteria (such as *Bacillus subtilis*) by 99.9% using up to half the power consumption compared to mercury lamp sterilizer.

* Power consumption varies depending on specifications and the target object.

Improved Operability

- ▶ Thanks to stable UV output immediately upon powering on, the startup time loss occurred with mercury lamps is eliminated.

Extended Service Life

- ▶ UV-C LEDs have a lifetime of 10,000 hours, five times longer than the 2,000 hours lifetime of mercury lamps. This reduces maintenance frequency and operational costs.

Reference : Power consumption per object when 3D sterilizing

Sterilization	CUP	FILM	CAP
UV-C LED Sterilization	0.10W	0.067W	0.025W
Mercury lamp	0.20W	0.10W	0.029W

* Power consumption when sterilizing Bacillus subtilis at 99.9%.

Reference : UV-C LED Sterilization Device Basic Specifications

Purpose	CUP	FILM	CAP
Target bacteria	Black mold		Bacillus subtilis
Sterilizing effect	99.9%		99.9%
Dimensions	L : 750mm W : 560mm H : 140mm	L : 700mm W : 430mm H : 190mm	L : 590mm W : 130mm H : 60mm
Weight	38kg	25kg	7kg
Cooling Methods	Water cooling		
Wavelength	280nm		

* Custom-made products are also available, including modified LED layouts and multi-module configurations.

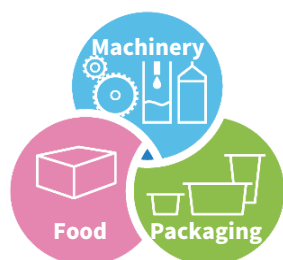
For more details Please feel free to contact us for inquiries or consultations.

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