

### GENERAL DATA

Luminaire type	Automatic UV Sterilizer
Wavelength	253,7 nm
Installation	horizontal surface
Environment	Indoor
Body material	ABS
Guard metal cage	Stainless steel
Diffuser	Pure quartz glass
Finish color	white
IP rating	IP 20
Operating	-10° ~ +40° C
Warranty	1 years

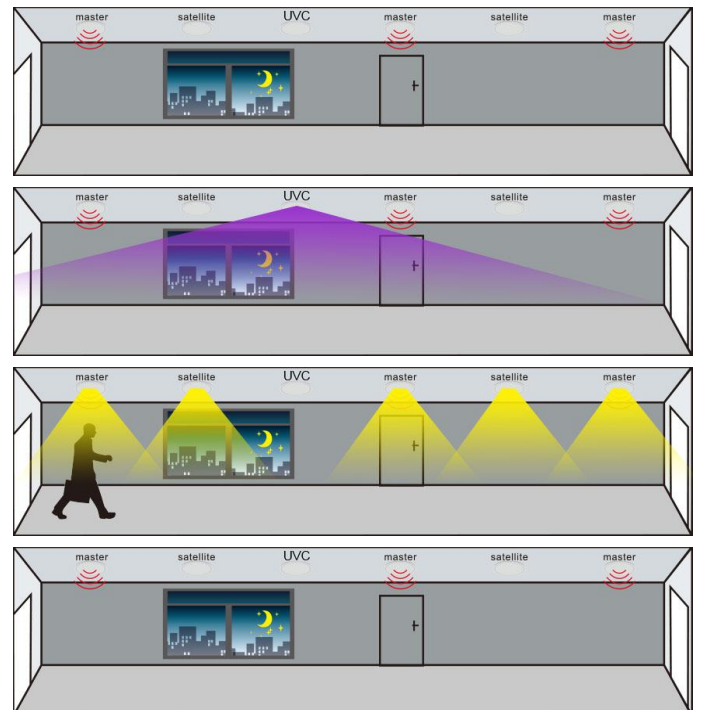
### ELECTRICAL DATA

Input volt	220 - 240V
Frequency	50 ± 10% Hz
Lifespan	8 000 hrs

### Industrial Automatic UV Sterilizer with Guard Metal Cage

Stainless steel rods reliably protect the bulb and lamp housing from damage.

The UV sterilizer is fully automatic. A specially designed sensor allows the use of UV light for sterilization in an absolutely safe manner: it turns off the UV source upon detecting any movement and turns it on again for a set time after a short delay.

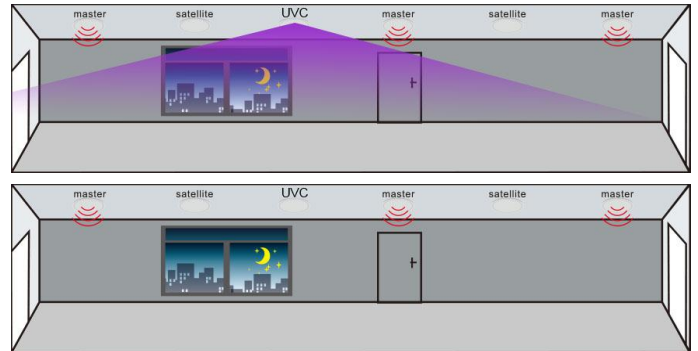


### Sensor Parameters

Operating Frequency:	5.8 GHz ±74.9 MHz. ISM wave band
Transmitting power:	< 0.2 mW
Delay time:	10s / 1min / 3min / 5min
Sterilization duration:	10min / 30min / 1 hour / ∞
Detection Area:	360°
Detection Sensitivity:	100% / 90% / 80% / 60%
Detecting Radius:	6-10 m

### Certificate Standards

Safety standards:	EN61058-1
EMS standards	EN300440, EN301489-1, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62479
Certificate:	CE, TUV & RED



### How does it work

- When the UV light is on and the sensor detects movement, the UV light is immediately turned off.
- When a human is in the area monitored by the sensor, the sensor detects any motions, avoiding turning on the UV lamp.
- When a human leaves the area monitored by the sensor, after the delay time has elapsed, the sensor turns on the UV lamp. If the sensor detects movement during sterilization, the UV light is immediately turned off.
- After the disinfection time has elapsed, the sensor turns off the UV light.

### APPLICATIONS

- Any industrial indoor spaces
- Storage rooms
- Dining rooms, dressing and checking rooms
- Toilets and washing rooms

### FEATURES

- Automatic disinfection of surfaces and air.
- Stainless steel rods reliably protect the bulb and lamp housing from damage.
- Destroys bacteria, mold and viruses
- No running costs. No human factor. Maintenance free.

## How to choose the right sterilization time and dosage of UV radiation.

If the use of a UV lamp is new to you, just call us and we can calculate the exact time and dose. For those who are already familiar with this technology, here are some useful tips.

1. UVC light is dangerous for human skin and eyes. Be sure there is no one in the room during disinfection.
2. To inactivate COVID-19 you need 1,7 mJ (lets count 2 mJ). [More details](#)

Based on following calculations, you can choose the right device, adjust its operating mode and select the correct operating time.

### UV-C sterilizer 15W

Distance, m	Irradiance $\mu\text{W}/\text{cm}^2$	Dosage 2 mJ, min
0,5 m	135 $\mu\text{W}/\text{cm}^2$	15 s
1 m	38 $\mu\text{W}/\text{cm}^2$	53 s
1,5 m	17,3 $\mu\text{W}/\text{cm}^2$	2 min
2 m	9,79 $\mu\text{W}/\text{cm}^2$	3 min 40 s
2,5 m	6,28 $\mu\text{W}/\text{cm}^2$	5 min 30 s

This means that within 1.5 meters of the lamp, it will take 2 minutes to fully deactivate COVID-19.

### UV-C sterilizer 20W

Distance, m	Irradiance $\mu\text{W}/\text{cm}^2$	Dosage 2 mJ, min
0,5 m	151 $\mu\text{W}/\text{cm}^2$	13 s
1 m	45 $\mu\text{W}/\text{cm}^2$	44 s
1,5 m	20,7 $\mu\text{W}/\text{cm}^2$	1 min 37 s
2 m	11,8 $\mu\text{W}/\text{cm}^2$	2 min 50 s
2,5 m	7,59 $\mu\text{W}/\text{cm}^2$	4 min 24 s

This means that within 1.5 meters of the lamp, it will take 1,5 minutes to fully deactivate COVID-19.

### UV-C sterilizer 25W

Distance, m	Irradiance $\mu\text{W}/\text{cm}^2$	Dosage 2 mJ, min
0,5 m	185 $\mu\text{W}/\text{cm}^2$	11 s
1 m	55 $\mu\text{W}/\text{cm}^2$	37 s
1,5 m	25,3 $\mu\text{W}/\text{cm}^2$	1 min 20 s
2 m	14,4 $\mu\text{W}/\text{cm}^2$	2 min 20 s
2,5 m	9,28 $\mu\text{W}/\text{cm}^2$	3 min 35 s

This means that within 1.5 meters of the lamp, it will take 1,3 minutes to fully deactivate COVID-19.

# E27 AUTOMATIC UV STERILIZER

## KVP-PS-I-UVE27-MWS08 15 | 20 | 25



karjalanvalaistuspalvelu.fi | info@karjalanvalaistuspalvelu.fi | 040 900 6950

### Product codes

<b>Manufacturer Code (SCU)</b>	<b>Power, W</b>	<b>UV radiation, <math>\mu\text{W}/\text{cm}^2</math></b>	<b>Description</b>
KVP-I-UVE27-15	15	38	Manual sterilizer
KVP-PS-I-UVE27-15-MWS08	15	38	Automatic steriliser
KVP-GM-UVE27-15	15	38	Spare lamp
KVP-I-UVE27-20	20	45	Manual sterilizer
KVP-PS-I-UVE27-20-MWS08	20	45	Automatic steriliser with universal sensor
KVP-GM-UVE27-20	20	45	Spare lamp
KVP-I-UVE27-25	25	55	Manual sterilizer
KVP-PS-I-UVE27-25-MWS08	25	55	Automatic steriliser with universal sensor
KVP-GM-UVE27-25	25	55	Spare lamp

The information is for your reference only, we reserve the right to make alterations in the interest of improving our products.