UVSYSTEMS UVSERIES



Using light for your disinfection demands



The **UV SERIES** is a Ultraviolet Light-Based system for primary and waste water disinfection, based on **class-C ultraviolet light, ensures thorough and non chemicalbased disinfection.**

When compared to other technologies, it offers the following advantages:

- Low operating and maintenance costs
- Easy and safe to install
- No water balance alteration
- No change to water smell or taste
- No risk to users.

Seko has realised range of products, **UVZONE** and **UVRAY**, for industrial applications and **UVDOMESTIC** for small residential applications.

UV-C operates at 254 nm wavelength, to ensure perfect disinfection and high rendering. The **lamps** are rated at **35,000 μWs/cm² and 40,000 μWs/cm²**, with an average **lifetime of 9000 hours**.

- Treatment of primary waters for human consumption
- Drugs and cosmetics industries
- City water purification systems
- Reverse Osmosis systems
- Air conditioning systems
- Legionella prevention in hot water systems
- Legionella prevention in swimming pools
- Drainwater recycling
- Fish farming

application fields

- Ultra pure Waters for laboratory analysis
- Gardening irrigation water
- Food and beverage industries

Mono-Lamp

Type **1xA**, **1xB**, **1xC**, **1xD**, **1xE**, **1xF**

Mono-lamp sterilisers are distinguished by their limited size. They are intended for smaller applications, and enjoy the advantages of compact size and easy maintenance. The low-pressure lamp's disinfection capability ensures **30.000 Ws/cm²** dosing.





70

1x	A	1xB		1xC		1xD	1x	-	1xF
MODEL	NUMBER OF LAMPS	IRRADIATION	MAX. FLOW RATE (l/min)	CONNECTIONS	MAX. PRESSURE (bar)	MANIFOLD MATERIAL*	CENTRE DISTANCE (mm)	IRRADIATION CONTROL (optional)	ELECTRICAL ABSORPTION (Wh)
1xA	1	30.000 µWs/cm²	5	1/8″	9	S/S AISI 304	190	no	12
1xB	1	30.000 μWs/cm²	10	1/2″	9	S/S AISI 304	280	no	16
1xC•1xD	1	30.000 μWs/cm²	19	3/4″	9	S/S AISI 304	430	1xC no 1xD yes	30
1xE• 1xF	1	30.000 μWs/cm²	45	1″	9	S/S AISI 304	810	1xE no 1xF yes	40

Data valid at T=20 °C and for transmittance 99% at 1 cm. For further information call our offices. *On demand Manifold material in AISI 316

Multi-Lamp



Турє **2хА, 2хВ, 3хА, 4хА, 5хА, 6хА**

These sterilisersK with two to six installed lamps, are the ideal solution for industrial applications. They ensure simple maintenance and easy installation. The low pressure lamps disinfection capability ensures **40.000 µWs/cm²** dosing.



2xA

2)

2xB - 3xA - 4xA - 5xA - 6xA

MODEL	NUMBER OF LAMPS	IRRADIATION	MAX. FLOW RATE (l/min)	CONNECTIONS	MAX. PRESSURE (bar)	MANIFOLD MATERIAL	CENTRE DISTANCE (mm)	IRRADIATION CONTROL (optional)	ELECTRICAL ABSORPTION (Wh)
2xA	2	40.000 μWs/cm²	75	1″	9	S/S AISI 304	0	no	80
2xB	2	40.000 μWs/cm²	100	1 1/2″	9	S/S AISI 304	740	yes	85
3xA	3	40.000 μWs/cm ²	133	2″	9	S/S AISI 304	670	yes	130
4xA	4	40.000 μWs/cm²	233	2″	9	S/S AISI 304	690	yes	175
5xA	5	40.000 μWs/cm ²	333	2″	9	S/S AISI 304	690	yes	220
6xA	6	40.000 μWs/cm²	533	2 1/2″	9	S/S AISI 304	640	yes	260

Data valid at T=20 $^{\circ}$ C and for transmittance 99% at 1 cm. For further information call our offices. *On demand Manifold material in AISI 316

Industrial Applications

	UVZONE	NUMBER LAMP	UV ZONE (H-W-D) mm
seko •	 POWER SUPPLY 230 VAC 50 HZ TIMER TWO COLOUR LED Green= Normal working Pode Anomaly Jamp 	1 2 3 4 5 6	260 x 140 x 130 260 x 290 x 130 260 x 290 x 130 260 x 580 x 130 260 x 580 x 130 260 x 580 x 130
1 0 0 0 0 0 2 2 2 2 1		Sek	



UV RAY

(H-W-D) mm

260 x 280 x 130

260 x 430 x 130

260 x 430 x 130

260 x 720 x 130

260 x 720 x 130

260 x 720 x 130

POWER SUPPLY 230 VAC 50 HZ

- TIMER
- TWO COLOUR LED Green= Normal working Red= Anomaly lamp
- ACOUSTIC ALARM
- FREE CONTACT RELAY NO/NC
- 230 VAC POWER SUPPLY RELAY NO/NC
- LIGHT ON AND TEMPERATURE DISPLAY

Domestic Applications

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SEKO built a combined system starting from the UV unit, adding an active cartridge filter to reduce impurities and an active carbon cartridge to eliminate bad smells and taste.

This is a compact and flexible solution conceived for smaller applications, to ensure maximum results in **water intended for human consumption**.

MODEL	NUMBER OF LAMPS	MAX. FLOW RATE (l/min)	CONNECTIONS	ELECTRICAL ABSORPTION (Wh)	
UV 1 Domestic		3.5	1/2″	12	





The sterilisation capability of UV-C light is tied to its 254 nm wavelength. This modifies cell bio-structure in bacteria, spores, mildew and algae. Dosing equal or greater than 25.000 μ W/cm² ensures 99% sterilisation.

A physical light-based system adds nothing to the water, as opposed to chemical alternatives. This ensures that no unwanted by products will be created, even with accidental over-exposure.

Exposure times are limited to a few seconds, and disinfection happens only when water passes through the system.



