



UV desinfection system

UV light is perceived as an efficient method of disinfection and offers several advantages over other sterilisation technologies such as chlorination and ozonization. UV light does not add any elements to water such as unwanted color, smell or taste and does not generate any dangerous by-products. The only addition is the energy of the UV radiation. The UV rays require small amount of contact with water in comparison with other methods. Therefore, it is a fast, efficient, economical and eco-friendly technology.

Wasserlight PUV

Operation control:

- LED signals
- sound alarm
- lifespan counter
- reminders



Work parameters:

- max press. 125 PSI (8.62 bar)
- work temp. 2-40 deg. C
- Fe <0.3 ppm (0.3 mg/l)
- hardness < 7 gpg (120 mg/l)
- turbidity <1 NTU
- transmittance UV > 75%



General information:

- 99,99% efficiency in removing bacteria and viruses
- horizontal or vertical mount
- stainless steel elements SS304

Advantages:

- ✓ efficient
- ✓ economical
- ✓ safe
- ✓ intuitive

Application:

- 🚰 potable water
- 🍏 food processing
- ⚕️ medicine
- 🏭 industry

The disinfection system has been designed in a way that ensures generating sufficient dose of UV radiation in the entire disinfection chamber. The dose, in case of UV disinfection, is a function of time and intensity of UV radiation, to which the water is exposed. Exposure time is related to flow rate. The higher the flow rate, the lower the exposure time OR the lower the flow rate, the higher the exposure time. The UV intensity is the amount of energy per unit of time emitted by the lamp. The dose is the product of the UV intensity and the exposure time. The operation is as follows:

1. Water enters the system and flows into the space between the quartz sleeve and the chamber wall.
2. Suspended microorganisms are exposed to the UV rays emitted by the lamp.
3. The LED indicator light provides visual indication of lamp operation status.
4. Water which leaves the UV system is ready to use.

LPV1T

flow:	1gpm(0.23 m3/Hr., 3.78lpm)
material:	stainless steel SS304
connection:	1/4" MNPT
mount:	plastic clips
power:	10 W
quartz sleeve:	length 245 mm
ballast:	LBAP40365 100V.-250V./50-60Hz.

LPV4T

flow:	4gpm(1 m3/Hr., 15lpm)
material:	stainless steel SS304
connection:	1/2" MNPT
mount:	alluminum clamps
power:	19 W
quartz sleeve:	length 375 mm
ballast:	LBAP40365 100V.-250V./50-60Hz.

LPV8T

flow:	8gpm(1.9 m3/Hr., 30lpm)
material:	stainless steel SS304
connection:	3/4" MNPT
mount:	alluminum clamps
power:	32 W
quartz sleeve:	length 665 mm
ballast:	LBAP40365 100V.-250V./50-60Hz.

LPV18T

flow:	18gpm(4.1 m3/Hr., 68lpm)
material:	stainless steel SS304
connection:	1" MNPT
mount:	alluminum clamps
power:	40 W
quartz sleeve:	length 452 mm
ballast:	BAP100365 100V.-250V./50-60Hz.

LPV35T

flow:	35gpm(8 m3/Hr., 133lpm)
material:	stainless steel SS304
connection:	1" MNPT
mount:	alluminum clamps
power:	65 W
quartz sleeve:	length 732 mm
ballast:	BAP100365 100V.-250V./50-60Hz.

LPV2T

flow:	2gpm(0.5 m3/Hr., 7.5lpm)
material:	stainless steel SS304
connection:	1/4" MNPT
mount:	alluminum clamps
power:	14 W
quartz sleeve:	length 331 mm
ballast:	LBAP40365 100V.-250V./50-60Hz.

LPV6T

flow:	6gpm(1.4 m3/Hr., 22.7lpm)
material:	stainless steel SS304
connection:	3/4" MNPT
mount:	alluminum clamps
power:	28 W
quartz sleeve:	length 535 mm
ballast:	LBAP40365 100V.-250V./50-60Hz.

LPV12T

flow:	12gpm(3 m3/Hr., 45.4lpm)
material:	stainless steel SS304
connection:	1" MNPT
mount:	alluminum clamps
power:	39 W
quartz sleeve:	length 890 mm
ballast:	LBAP40365 100V.-250V./50-60Hz.

LPV24T

flow:	24gpm(5.5 m3/Hr., 91lpm)
material:	stainless steel SS304
connection:	1" MNPT
mount:	alluminum clamps
power:	50 W
quartz sleeve:	length 542 mm
ballast:	BAP100365 100V.-250V./50-60Hz.

LPV52T

flow:	52gpm(11.5 m3/Hr., 197lpm)
material:	stainless steel SS304
connection:	1 1/2" MNPT
mount:	alluminum clamps
power:	100 W
quartz sleeve:	length 1082 mm
ballast:	BAP100365 100V.-250V./50-60Hz.

