

Industry: Home Uses

JZ series



Drinking water sterilizer

Ultraviolet disinfection is used in regional water supply of direct drinking water system. Installed at the end of the system, it makes full use of UV to effectively kill the microbes without any impact on water taste.

The effective wavelength of UV disinfection is 200nm to 300nm. The 253.7nm wavelength can destroy the molecular structure of DNA and RNA in organism cell, leading the growing cell and regenerative cell to die, so as to reach to the effect of disinfection.

FEATURES

The technology is preferred for its non-chemical nature, elimination of the dechlorination process, and the ability to neutralize a wide spectrum of microorganisms present in water.

It has been implemented to treat drinking water as a barrier against species of chlorine-resistant microorganisms (Cryptosporidium or Giardia).

ULTRAVIOLET DOSAGE

Using ultrasonic welding technology, good airtightness, durable. It is suitable for small flow systems such as pure water machines, household drinking water systems, aquariums, SPA, etc., and the flow rate can reach 12 m3/h.

With a sterilization rate of up to 99.9% *, it can efficiently decompose ozone, chloramine

and other substances in water. Does not produce secondary pollutants and does not affect water quality and taste.

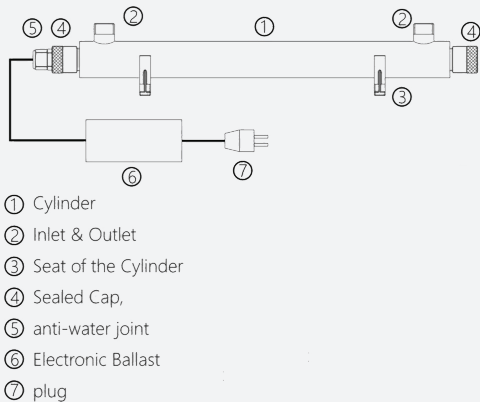
Used in household water purification system of small flow rate. Compact structure & economic application. No special training is needed. Easy to install and maintain.

Organism	Type	Disease	Dose (mJ/cm²)
Bacillus subtilis spores (B. subtilis)	Bacteria	--	22
Bacteriophage (Phage)	Virus	--	6.6
Coxsackie virus	Virus	Intestinal infection	6.3
Shigella spores	Bacteria	Bacterial dysentery	4.2
Esterichia coli (E. coli)	Bacteria	Food poisoning	6.6
Fecal coliform	Bacteria	Intestinal infection	6.6
Hepatitis A virus (Infectious Hepatitis virus)	Virus	Hepatitis of the liver	8
Influenza virus (Flu virus)	Virus	Influenza	6.6
Legionella pneumophila	Bacteria	Legionnaires’ disease	12.3
Salmonella typhi	Bacteria	Typhoid fever	7
Staphylococcus aureus (Staph)	Bacteria	Food poisoning, Toxic shock syndrome, etc	6.6
Streptococcus spores (Strep)	Bacteria	Strep throat	3.8

PRINCIPLE OF OPERATION

UVC technology sterilizes the water through exposure to strong UVC light produced by high efficiency, high-intensity and long-life UVC generator which is designed using special techniques, based on modern preventive medicine, photology, mathematics, biology and physical chemistry.

The product uses 9,000 hours UVC lamp tube made in USA. The overall life of stainless steel reactor is up to 15 years. Warranty for electronic ballast: maximum 3 years.

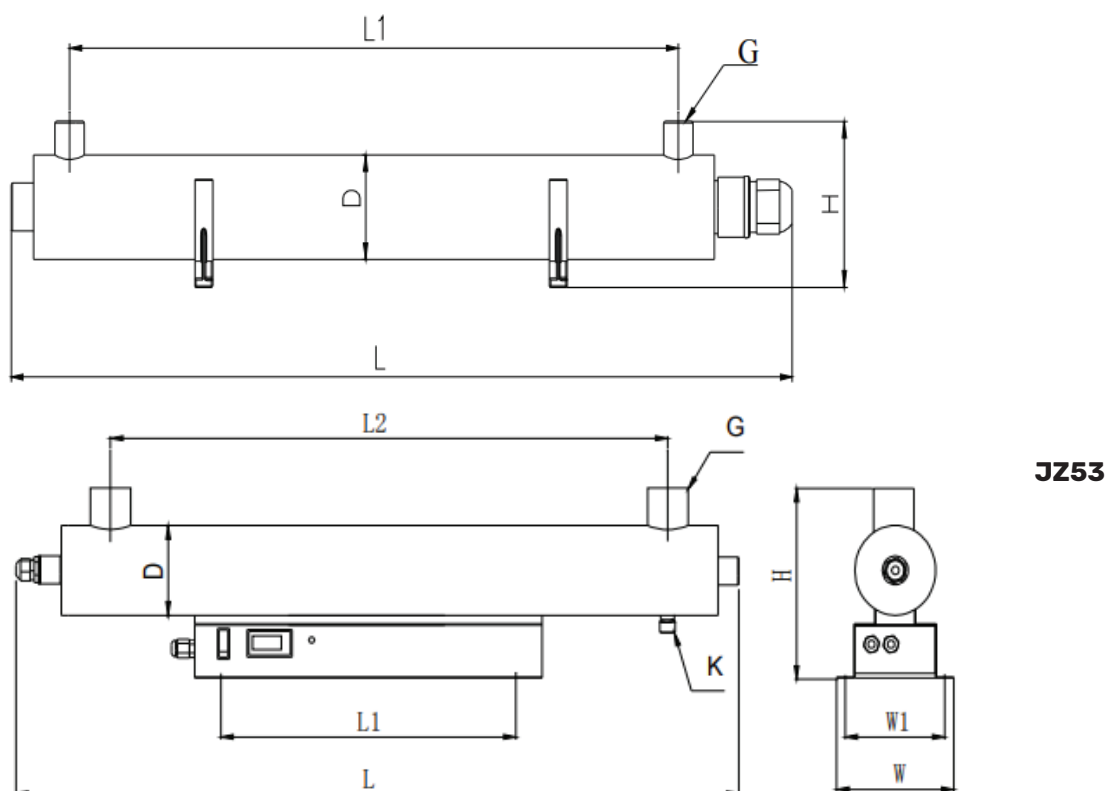


TECHNICAL SPECIFICATIONS

Model	Flow rate (m³/h)	Rated power (Watt)	No. of tubes (piece)	Lamp life (h)	Chamber material	UV dosage (mJ/cm²)	Dimensions				
							L	L1/L2	D	H	G
JZ2	0.5	6	1	9,000	304	40	275	160	ø50	95	½"
JZ4	1	10	1	9,000	304	40	325	200	ø50	95	½"
JZ7	1.5	25	1	9,000	304	40	655	510	ø50	95	¾"
JZ9	2	32	1	9,000	304	40	795	650	ø50	95	¾"
JZ12	3	41	1	9,000	304	40	645	770	ø50	95	1"
JZ27	6	55	1	9,000	304	40	725	565	ø50	95	1 ¼"
JZ40	9	87	1	9,000	304	40	945	760	Ø63	110	1 ½"
JZ53	12	120	1	9,000	304	40	1270	300/1070	Ø89	186	2"

*K=3/8"; W=125mm; W1=111mm

TECHNICAL DRAWINGS



APPLICATIONS

- 1. Residential & recreational** (under the sink, water vending, machine, whole house, purification, rural water systems, swimming pools, fish ponds, water gardens, fountain water, features, aquariums, rainwater collection)
- 2. Community systems** (apartment complexes, villages, towns, cities, farms)
- 3. Institution systems** (laboratories, hospital, clinics, universities, schools, veterinary clinics)
- 4. Industry** (Pharmaceutical, Food industry, Ice makers, Laundry water, Liquid sugar, Sweeteners, Ozone reduction)

WORKING CONDITIONS

- Ambient Air Temperature: 5°C-40°C
Humidity: ≤90%(when the air temperature is 25°C)
- Power: 220V/50Hz
- Maximum Working Pressure: ≤0.8Mpa



S P E C T R A

PROFESSIONAL UV SOLUTIONS

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