



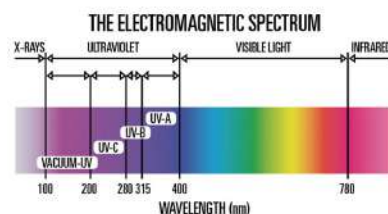
UV WATER STERILIZER





What is Ultra Violet (UV) light?

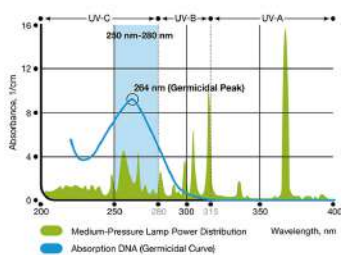
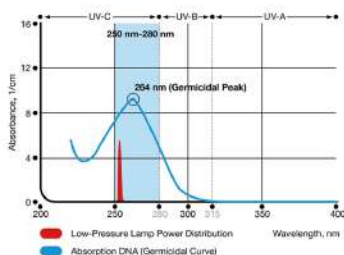
When UV light meets a microorganism it penetrates its DNA, destroying the adenine and thymine bonds effectively inactivating bacteria, viruses, spores and moulds, by stopping them from multiplying and causing infection.



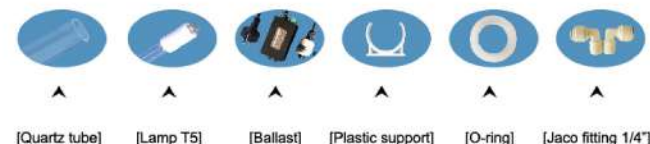
There are two mainstream UVC lamp technologies used in Industrial and Municipal applications:

Amalgam lamps offer a monochromatic (Single wavelength) output at 254nm with 30%+ conversion of electricity to UVC. These lamps are efficient but their energy density is low which means they are relatively low power (100 to 800 W) and long. They are used when efficiency is key, but larger multi-lamp systems can be bulky and difficult to maintain.

Medium Pressure lamps offer a polychromatic output across a wide spectrum. This can be useful to match the sensitivity of a target organism, but they have a lower energy efficiency (~15%). Conversely they are high powered (1kw to 24KW) and short which means you need less lamps in a smaller reactor.



UV STERILIZER- Small Flow

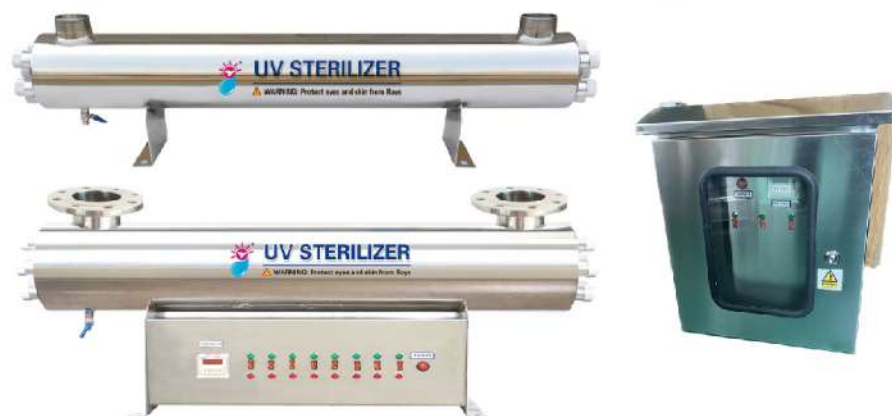


■ Ultraviolet (UV-C rays/253.7nm) water disinfection system is a unique and fast method of water sterilization to effectively destroy bacteria, viruses, molds and algae.

Note:
 • Philips lamps are optional.
 • Customization is acceptable.
 • 316SS is optional.
 • Internal mechanical or electrolytic polishing is optional for stainless steel tube.
 • Single grounding wire

Model	SS 6W	SS 12W	SS 16W	SS 25W	SS 30W	SS 35W	SS 40W	SS 55W	SS 80W
Housing material	#304/316	#304/316	#304/316	#304/316	#304/316	#304/316	#304/316	#304/316	#304/316
ALL UV lamp(T5)power	6W	12W	16W	25W	30W	35W	40W	55W	80W
Input voltage	110V/240V 50/60Hz	110V/240V 50/60Hz	110V/240V 50/60Hz	110V/240V 50/60Hz	110V/240V 50/60Hz	110V/240V 50/60Hz	110V/240V 50/60Hz	110V/240V 50/60Hz	110V/240V 50/60Hz
UV lamp quantity	1	1	1	1	1	1	1	1	1
Water treatment capability	0.5GPM	1GPM	2GPM	6GPM	8GPM	9GPM	10GPM	12GPM	18GPM
Max operating pressure	8bar/116psi	8bar/116psi	8bar/116psi	8bar/116psi	8bar/116psi	8bar/116psi	8bar/116psi	8bar/116psi	8bar/116psi
Lamp failure alarm	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Lamp life	8000Hrs	8000Hrs	8000Hrs	8000Hrs	8000Hrs	8000Hrs	8000Hrs	8000Hrs	8000Hrs
Product size 	A 270mm	310mm	375mm	595mm	910mm	950mm	910mm	950mm	950mm
	B 63mm	63mm	82mm	82mm	85mm	85mm	85mm	85mm	85mm
	G 1/4"female	1/4"female	1/2" male	1/2" male	3/4" male	3/4" male	3/4" male	3/4" male	3/4" male
	ø 50.8mm	50.8mm	63.5mm	63.5mm	63.5mm	63.5mm	63.5mm	63.5mm	63.5mm

UV Sterilizer In Large Power



■ Ultraviolet (UV-C rays/253.7nm) water disinfection system is a unique and fast method of water sterilization to effectively destroy bacteria, viruses, molds and algae.

Model	Lamp quantity and Power	Total Power	Water treatment capability	Chamber size(mm)
SS 110W	2*55W	110W	5.5T/H	950*108
SS 165W	3*55W	165W	8T/H	950*133
SS 220W	4*55W	220W	11T/H	950*133
SS 330W	6*55W	330W	16T/H	950*168
SS 440W	8*55W	440W	22T/H	950*220
SS 550W	10*55W	550W	30T/H	950*220
SS 660W	12*55W	660W	35T/H	950*273
YW-ZWX80-2	2*80W	160W	8T/H	950*108
YW-ZWX80-3	3*80W	240W	12T/H	900*133
YW-ZWX80-4	4*80W	320W	15T/H	900*133
YW-ZWX80-6	6*80W	480W	25T/H	900*168
YW-ZWX80-8	8*80W	640W	32T/H	900*220
YW-ZWX80-10	10*80W	800W	50-55T/H	900*273
YW-ZWX120-3	3*120W	360W	35-36T/H	1200*133
YW-ZWX120-4	4*120W	480W	45-48T/H	1200*133
YW-ZWX120-5	5*120W	600W	55-60T/H	1200*168
YW-ZWX120-6	6*120W	720W	70-72T/H	1200*219
YW-ZWX120-7	7*120W	840W	80-84T/H	1200*219
YW-ZWX120-8	8*120W	960W	95-96T/H	1200*219
YW-ZWX150-6	6*150W	900W	85-90T/H	1600*219
YW-ZWX150-7	7*150W	1050W	100-105T/H	1600*219
YW-ZWX150-8	8*150W	1200W	110-120T/H	1600*219
YW-ZWX150-9	9*150W	1350W	130-135T/H	1600*273
YW-ZWX150-10	10*150W	1500W	145-150T/H	1600*273
YW-ZWX150-11	11*150W	1650W	160-165T/H	1600*273
YW-ZWX150-12	12*150W	1800W	170-180T/H	1600*273

UV sterilizer pharma grade triclamp



-  Voltage 110V/220V 50/60Hz
-  Alarm Audible and visual
-  Indicator Lamp operation and failure
-  Optional digital display ballast

FEATURES

- High quality UV ballast meets international certification such as CE, UL standard
- Reliable High-performance UV lamp, rigorously tested to provide consistent output over the entire lamp life
- Controller will go into alarm if the lamp fails
- UV chamber with great welding process which enables to pass 1.04MPa 100,000 times water hammer test
- Connection triclamp zero dead leg stainless steel 316L

WATER QUALITY REQUIREMENT

- Maximum operating pressure 0.8MPa(116psi)
- Ambient water temperature 2-40°C(36-104°F)
- Iron<0.3ppm(0.3mg/L)
- Hardness<7gpg(120mg/L)
- Turbidity<1NTU
- UV transmittance>75%
- UV dose ≥ 30mJ/cm²

Model	Flow rate		Reactor dimension	In/outlet port	Package size cm	UV Lamp code	Lamp power	Quartz tube code	Ballast code
	m ³ /hr	GPM							
PGS-055	2.7	12	955 X 63.5mm	1" triclamp	119 X 28 X 41.5 /8sets	UVT5-455	55w	QT5-940	EB-G55
PGS-110	5.4	24	950 X 108mm	1.5" triclamp	102.5 X 22.4 X 42 /1set	UVT5-455	55w X 2	QT5-940	EB-G55
PGS-165	8.1	36	950 X 133mm	1.5" triclamp	102.5 X 24.8 X 45 /1set	UVT5-455	55w X 3	QT5-940	EB-G55
PGS-220	10.9	48	950 X 133mm	1.5" triclamp	102.5 X 24.8 X 45 /1set	UVT5-455	55w X 4	QT5-940	EB-G55

* Chamber material: 304 SS (316L is optional); Thread or flange as options; Philips uv lamp is optional

T5/T6 UVC LAMP 4 PINS IN SINGLE E-ENDS

Features:

1. Electrodes and quartz tube are processed by special technique, the uv lamp have a long life and keep UV output.
2. Different lamp holder, plastic and ceramic.
3. High ozone lamps can produce hydroxyl in water, decomposition of organic matter, reducing TOC

Applications:

1. Disinfection for purified water, domestic water, deionized water, medical water, and other water sources;
2. Water treatment equipment
3. Used in waste water treatment, photocatalyst, photocatalytic degradation of organic compounds in water.



Technical data

Model	Diameter	Length	Wattage	Voltage	Current	UV Intensity (Distance=1M) uW/CM ²	Life
TUVT5-4W	15	153	4	28	120	18	9000
TUVT5-6W	15	212	6	32	180	20	9000
TUVT5-12W	15	287	12	42	380	31	9000
TUVT5-16W	15	345	16	47	410	33	9000
TUVT5-25W	15	565	25	74	425	77	9000
TUVT5-30W	15	885	30	82	425	85	9000
TUVT5-35W	15	925	35	98	490	102	9000
TUVT5-40W	15	851	40	110	400	120	9000
TUVT5-55W	15	925	55	120	512	145	9000
TUVT5-80W	15	851	80	100	800	240	9000
TUVT5-120W	15	1149	120	110	800	290	9000
TUVT5-150W	15	1554	150	170	900	400	9000
TUVT5-320W	19	1554	320	160	2100	720	9000

Quartz Tube

Specifications

- High temperature resistant
- Good corrosion resistant
- Low thermal expansion coefficient
- Good electric insulation performance
- Long time to use
- High purity, Silicon Dioxide > 99.99%
- Transmittance of light > 90%



Electronic Ballast, UV Lamp Ballast

Regular Series



Multi-function Series



High Power Series

