



- This machine can sterilize pre-filtered water for drinking purposes.
- The casing is made of stainless steel with a high quality quartz sleeve mounted inside
- A maximum flow rate of 2500 liters per hour. (Per 55 watts)
- It has 1" or ¾" inlet and out let and should be placed after your filter system. (inlet and outlet size will differ with bigger unit)
- This sterilizer is powered by a 220 v/ac. It has a 55Watt germicidal lamp that has a lifespan of 9000 hours. Approximately 14 months (Phillips lamp)
- A two minute warm up time is required on start up for the lamp to reach the correct temperature.
- The lamp has a wavelength of 254 nanometers that destroys all types of waterborne disease.
- It is approximately one meter in length and sixty millimeters in diameter.

Specifications:

Model number	watts	Electricity unit volts	Electricity unit Hz	Output power	UV chamber Material	UV Dosage uW/cm ²
UVSS11WATT	11W	180~230	50~60	50mA	304 #	>30000
UVSS16WATT	16W	180~230	50~60	72mA	304 #	>30000
UVSS25WATT	25W	180~230	50~60	113mA	304 #	>30000
UVSS30WATT	30W	180~230	50~60	136mA	304 #	>30000
UVSS55WATT	55W	180~230	50~60	250mA	304 #	>30000

Model number	Flow Rate in Clear, clean water	Flow Rate in Clear-Di, or RO water	In/Out Connect size (Inch)	Max pressure (bar)	Useful life (hrs)	LED Warning system
UVSS11WATT	0.18t/h	0.17t/h	1/4	5Bar	>8000	Yes
UVSS16WATT	0.4t/h	0.3t/h	1/4	5Bar	>8000	yes
UVSS25WATT	1.3t/h	1.2t/h	1/2	5Bar	>8000	yes
UVSS30WATT	1.8t/h	1.78t/h	1/2	5Bar	>8000	yes
UVSS55WATT	2.5t/h	2.4t/h	3/4	5Bar	>8000	yes

Specifications of multi lamp units:

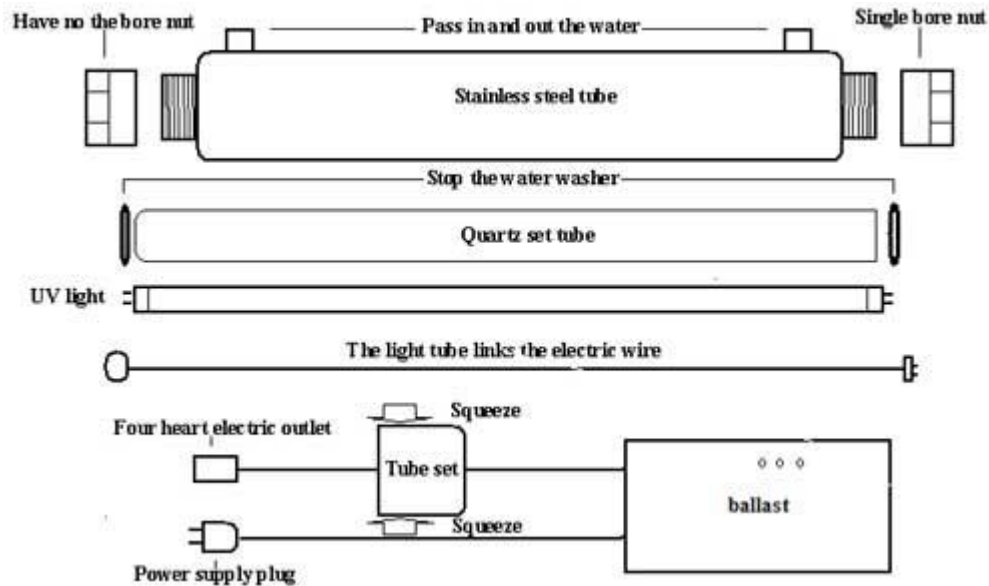
Model number	Flow Rate in Clear-Di, or RO water	Flow Rate in Clear, clean water	Inlet/ Outlet	Dimension size /mm	Max pressure	Useful life (hrs)	LED siren
UVSS110Watt	5t/h	4.8t/h	1"	140x970x342	6bar	> 8000h	Yes
UVSS220Watt	10t/h	9.6t/h	1"	140x970x342	6bar	> 8000h	Yes
UVSS330Watt	15t/h	14.4T/h	2.5"	220x970x422	6bar	> 8000h	Yes
UVSS440Watt	20t/h	19.2T/h	2.5"	260x970x500	6bar	> 8000h	Yes

Model number	watts	Quantity	Electricity unit volts	Electricity unit Hz	Output power	UV chamber Material	UV Dosage uW/cm ²
UVSS110Watt	110W	2	180V~240V	50Hz~60Hz	500mA	304 #	> 30000uw
UVSS220Watt	220W	4	180V~240V	50Hz~60Hz	1000mA	304 #	> 30000uw
UVSS330Watt	330W	6	180V~240V	50Hz~60Hz	1500mA	304 #	> 30000uw
UVSS440Watt	440W	8	180V~240V	50Hz~60Hz	2000mA	304 #	> 30000uw

What are the advantages of Ultra Violet disinfect device:

1. Kills all bacteria.
2. Dose not add chemicals to water. Low cost.
3. Easy to use.
4. Can be used at almost any industry such as hospital, food industry, environment protection industry, medicine industry and biochemical research etc.

Zero accessories name:



Installation and user's manual :

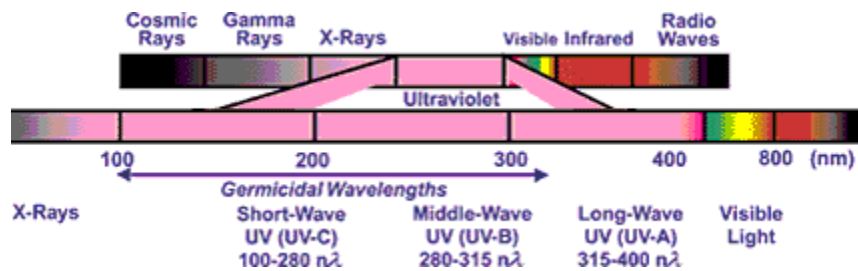
1. Please secure unit to wall or mounting securely. To avoid damage of quartz sleeve or lamp
2. Plug the UV light tube into ballast provided. There are two connections on the globe at opposite ends. Use the green wire provided to connect the two furthest connections to ballast. Insert Uv light down the open end of the main body of the unit.
3. Connect water inlet and outlet to water supply, visual inspect if there is any water leakage, do not supply power if there is a leak.
4. Warning beep sound will sound and warning indicator will light if the UV tube is damaged or misplaced.

Maintenance :

1. Do not look directly into the UV light when in operation. To avoid **permanent damage to your eyes**.
2. If you install the device vertically, please keep the water source inlet higher than the unit inlet. Reduce the speed of water flow as well as to increase the effect of UV ray.
3. Please add water limitation unit if the water pressure too high.
4. Please add a one-way valve if water pressure exceeds 3kg in order to protect the Quartz tube.
5. If a solenoid valve is used to shutdown the system please connect this valve to the water inlet.
6. Please add a filter in front of water inlet if there is grit or murky water.
7. Clean Quartz tube every 4-6 month and check is there is any damage.

How to clean:

1. Shut down power, take out UV tube, unscrew the nuts on both sides, take out quartz tube, clean the tube, put the tube back in its position, fasten the nuts, insert the UV tube then turn power on. (Do not forget the rubber o-rings)
2. Use PH7 soap or lemon acid to clean the Quartz tube, use alcohol to wipe the tube after you clean it. Check if there is any water leakage after installation.



What is germicidal ultraviolet?

UV-C light is germicidal - i.e., it deactivates the DNA of bacteria, viruses and other pathogens and thus destroys their ability to multiply and cause disease. Specifically, UV-C light causes damage to the nucleic acid of microorganisms by forming covalent bonds between certain adjacent bases in the DNA. The formation of such bonds prevents the DNA from being unzipped for replication, and the organism is unable to reproduce. In fact, when the organism tries to replicate, it dies.

What are the beneficial uses of germicidal UV?

Ultraviolet technology is a non-chemical approach to disinfection. In this method of disinfection, nothing is added which makes this process simple, inexpensive and requires very low maintenance. Ultraviolet purifiers utilize germicidal lamps that are designed and calculated to produce a certain dosage of ultraviolet (usually at least 16,000 microwatt seconds per square centimetre but many units actually have a much higher dosage.) The principle of design is based on a product of time and intensity - you must have a certain amount of both for a successful design.

How do ultraviolet purifiers work?

purifier units contain one or more germicidal ultraviolet lamps. The germicidal lamp is a short wave low pressure mercury vapor tube that produces ultraviolet wavelengths that are lethal to micro-organisms. Approximately 95% of the ultraviolet energy emitted is at the mercury resonance line of 254 nanometers. This wavelength is in the region of maximum germicidal effectiveness and is highly lethal to virus, bacteria and mold spores. Therefore, the water or air that passes through the chamber is exposed to the germicidal uv light and the genetic material of the micro-organism is deactivated, which prevents them from reproducing and renders them harmless.

Here are just a few of the applications...

Drinking Water

- under sink installs & water vending machines
- aircraft, boats & recreational vehicles
- water wells & water cisterns
- swimming pool & hot tubs
- farms, ranches & trailer parks
- schools & hotels
- aquarium, hatcheries and nurseries
- ice making

Food Processing

- brewery & winery
- soft drinks, fruit drinks and juices
- bottling facilities
- dairy processing
- liquid sugars, sweeteners and edible oils
- water based lubricants
- pure wash water

Medical

- pharmaceutical production
- laboratories, hospitals and clinics
- maternity labour and delivery areas
- pathology labs, kidney dialysis
- animal husbandry

Industries

- cosmetics and electronic production
- pond & lake reclamation
- laundry water

