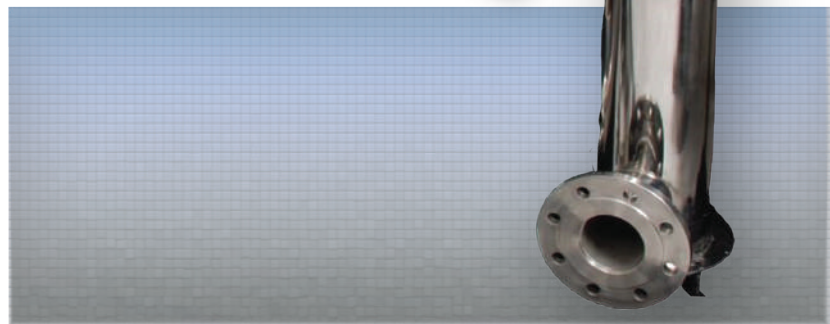




UV Disinfection System

The Ultimate Technology
For Water Disinfection

CE



UV Disinfection Concept:

Ultra violet light better known as UV; is one energy region of the EM spectrum.

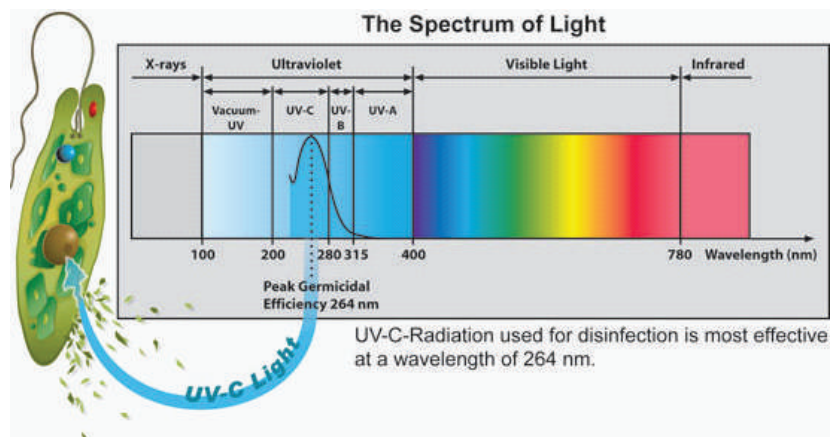
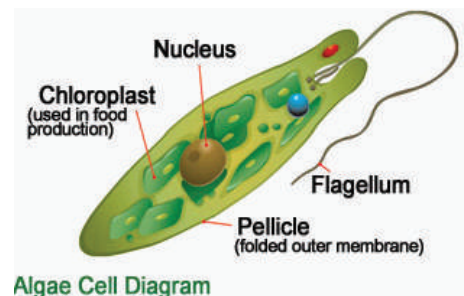
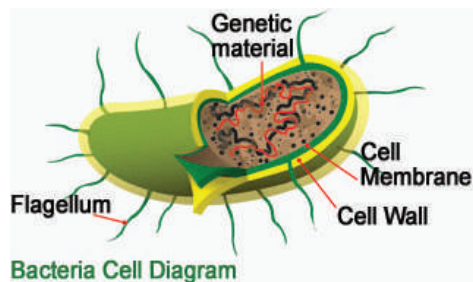
The UV spectrum covers 4 regions; the wavelength useful for water treatment is 254nm (UV-C).

The maximum absorption of UV light by the nucleic acid which causes non-reparable damage to it occurs at wavelength 260nm. Therefore, germicidal lamps are designed to emit UV rays at 254nm, operating at a very close point to the optimum wavelength.

UV system operation is optimum when the following two conditions are satisfied:

- The intensity of the UV rays is properly selected.
- The exposure time is achieved.

Hence, proper design of a system is crucial to ensure proper disinfection.



Applications:

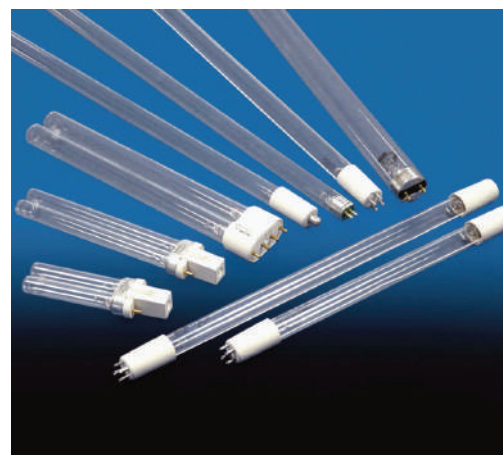
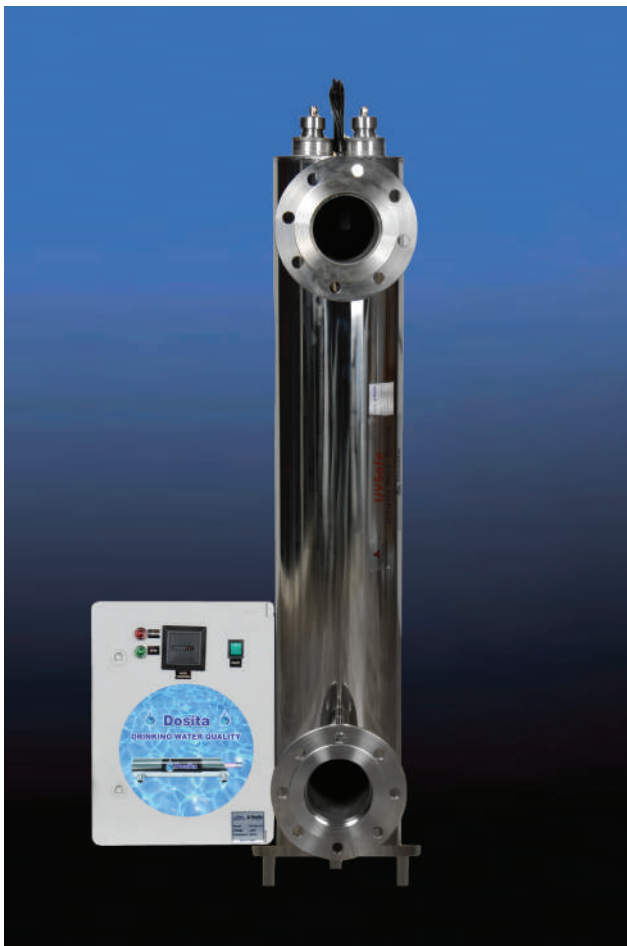
The disinfection of potable water via UV is a proven process by international standards. UV system with high UV intensity is safe product for:

- Drinking Water
- Fish tanks/Ponds
- Waste water
- Fisheries
- Agriculture
- Ultra pure water

The UVSafe UV will not induce any chemical or change water quality.

Description & Advantages Of UVSafe:

- All UV stations supplied by Dosita are produced by genuine products produced as per Italian standards and specifications.
- The chamber is made of polished SS316 only.
- Amalgam doping, high intensity UV lamp .
- Our system is designed to high UV dose, which will ensure a very high kill rate of bacteria.
- Also our design is based on contact time at specified flow rate.
- Pressure tested up to 9 bars.
- Easy installation.



Models:

Dosita offers a wide range of standard UV Stations, which cover wide range for single flat, villa and residential / commercial towers.

Other than standard, we are offering custom design UV Station to meet high flow rate.

Standard Range:

Model No	Flow rate m3/hr	No of lamps	Power (W)	Volts (V)	Running Hours	Dimension (mm)	Diameter (mm)	In/out (inch)
UVsafe2	0.20	1	11	220	10000	265	63	¼
	0.14							
UVsafe3	1.30	1	16	220	10000	340	63	½
	1.00							
UVsafe4	3.20	1	36	220	10000	860	63	2
	2.60							
UVsafe5	6.80	1	75 to 80	220	10000	860	101	2
	5.20							
UVsafe6	9.40	1	120	220	10000	860	101	2
	6.50							
UVsafe7	17.0	1	210	220	10000	1156	101	2
	13.4							
UVsafe8A	31.0	3	315	220	10000	860	168	2
	28.0							
UVsafe8	42.0	2	420	220	10000	1156	168	3
	38.0							
UVsafe9	69.0	3	630	220	10000	1156	168	4
	65.0							
UVsafe10	96.0	4	840	220	10000	1156	220	4
	89.0							

Our products are rated at acceptable international standards (NSF/EPA/DIN), and all at $T_{100}=70\%$ transmission, $\Delta T_{water}=5k$

UVSafe 4 to be reduced to 1 inch by customer.

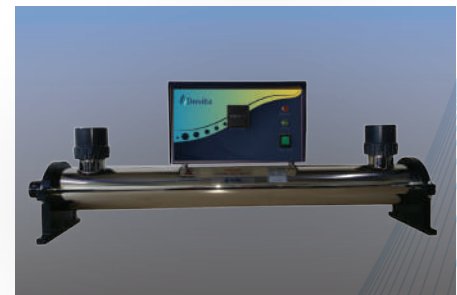
UVSafe 5,6,7 has PVC female socket.

UVSafe 8- 3inch SS flange, UVsafe9,10- 4inch SS flange

* Rated flow rate at $30mj/cm^2$

** Rated flow rate at $40mj/cm^2$

- Other sizes are available upon request
- Options UVI monitoring, flow switches are available upon request



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