PureFlow

Germany Ultra Violet System

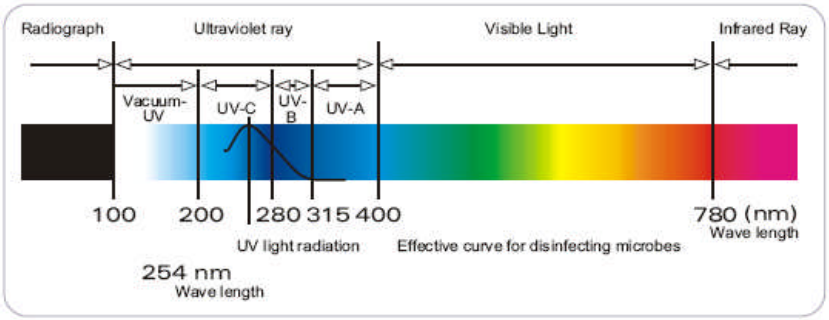
Ultraviolet sterilizers are specifically designed for both residential and commercial/industrial applications requiring 99.9% (log 3) reduction of bacteria and viruses. Log 3 reduction in Giardia and Cryptosporidium is also achievable by slowing the water flow down and therefore increasing the irradiation dose. Feature :

- **Visually displays Total Controller Running Time**
- **110-220 VAC 50/60 Hz Power input with operating frequency 28-50 khz**
- **New water tight enclosure and connections**
- **99.99% destruction of bacteria, virus, and protozoan cysts (Giardia lamblia & cryptosporidium) at rated flow**
- **High Output Low Pressure mercury vapear lamp (Amalgam Lamp for more than 15 M3/H)**
- **Ballast with open-loop current control with power ON indicator**
- **Compact design incorporating 304 stainless steel reactor chamber, brilliantly polished for laboratory or medical applications. Special purpose available design with 316 L stainless steel.**
- **Easy servicing–no need to disconnect water flow to change UV lamp**
- **Open end quartz sleeve and aluminium gland nut for optimum operating temperature and sealing efficiency**
- **2 meters of AC power extension**
- **Drain port for reactor chamber flushing**
- **Individual lamp-on indicators**
- **On/off power switch**
- **Natures way to protect your water without the addition of harmful chemicals**
- **One year warranty on reactor chamber for unparalleled protection**

The electronic ICE ballast provides constant current over varying input line voltages and is not affected by line frequency variations.

This result in optimum UV output, increase energy efficiencies and crest factor control.

How does the UV work for destroying the bacteria, virus and other micro-organisms.
We all know sun light can be used in sterilizing, actually what fuctioned is Ultraviolet ray only. Ultraviolet was found about 200 years ago and through years of survey and experiment, science has proofed it's effect in killing the virus and bacteria. Ultraviolet is divided by A, B, C waves and 240-260 nm out of C wave is most effective ray with sterizing ability and the strongest point is 253.7 nm. The light wave is able to kill the DNA of virus and bacteria and make it unable to reproduce.



Electromagnetic Wave Drawing

PureFlow Ultraviolet System

Specifications

Model	HX-66	HX-132	HX-198
Standart Capacity Pure Flow	250 lpm	500 lpm	750 lpm
	66 gpm	132 gpm	132 gpm
	15 m^3/hr	30 m^3/hr	45 m^3/hr
Length	160 cm (63")	160 cm (63")	160 cm (63")
Width	10 cm (4")	15 cm (6")	15 cm (6")
Height	30 cm (12")	30 cm (12")	30 cm (12")
Chamber Diameter	10 cm (4")	15 cm (6")	20 cm (8")
Drain Plug	1/2"	1/2"	1/2"
Inlet / Outlet Port Nozzle	2" Clamp Ferrule	3" Clamp Ferrule	3" Clamp Ferrule
Number of Lamp PureFlow	S15/300A 1 PC	S15/300A 2 PCS	S15/300A 3 PCS
Number of Quartz Sleeves	QS-015 1 PC	QS-015 2 PCS	QS-015 3 PCS
Reactor Chamber Material	SS 304	SS 304	SS 304
Electrical Voltage Single Phase	220 V / 50 Hz		
Power Consumption	300 watt	600 watt	900 watt

Note :

- Available on SS 316L Reactor Chamber
- UV 254 and OZONE model AOP S15/300A with Ozone Capacity 6,48 gr/H, UV Capacity 15 M3/H
- UV AOP Type are ideal for Advance Oxidation Process and low cost small capacity Ozone purpose
- 12.000-18.000 Hour Life Time UV Amalgam and UVC Intensity drop to 90 % until 20.000 hour
- Maksimum Electric turn on/off is 4 time in single day
- One Year Warranty of Stainless Steel Chamber
- Recommended Level Application :
  1. Iron < 0.3 ppm
  2. Manganese < 0.05 ppm
  3. Turbidity < 1 NTU
  4. Hardness < 120 ppm
  5. Tannins < 0.1 ppm
  6. UV Transmittance > 75 %

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