

## ergo Ultraviolet Disinfection

The ergo range of disinfection units comprises of a low pressure mercury vapor lamp enclosed in a SS 316 reactor. The UV lamp emits powerful and lethal ultraviolet light energy at 254nm wavelength that disrupts the DNA of the microorganism, thereby causing the disinfection of the fluid that flows in the reactor. The product offering covers wide range of flow rate from 0.1 to 100m<sup>3</sup>/h and can be used in both water and wastewater disinfection.

## Features & Benefits

Features	Benefits
SS Reactor / Casing	Non Corrosive and long life
Non Hazardous and Clean technology	No production of any secondary by-products
Intensity monitor	Monitors UV intensity and alerts the user when intensity drops
Lamp failure alarms	Reliable disinfection

## Applications

- Potable water Disinfection
- Wastewater Disinfection
- Ultra Filtered water disinfection

## Standard Supplies

- One Reactor in SS
- One set of Ballast
- Required nos. of Quartz Sleeve
- Required Nos. of UV lamp



Ergonomic Design



Minimum Footprint



Maximum Convenience



Plug & Play



Easy Maintenance



Fontus Service Advantage

# Technical Specifications

## Water Disinfection Units

40 mJ/cm <sup>2</sup> as per NSF /EPA guidelines	90%	Model No	Flow Rate	Inlet / Outlet Size	Voltage	Power Consumption	Nos. of UV lamps	Chamber Material
			Cu.m/H	inches	Volt	Watt	Nos.	n/a
Dosage Considered	UV Transmittance	ergo WUV 0.1	0.1	1/4" BSP(F)	230/50-60 Hz	13	1	SS 304
		ergo WUV 0.2	0.2	1/2" BSP(M)	230/50-60 Hz	22	1	SS 304
		ergo WUV 0.5	0.5	1/2" BSP(M)	230/50-60 Hz	27	2	SS 304
		ergo WUV 1.2	1.2	3/4" BSP(M)	230/50-60 Hz	40	2	SS 304
		ergo WUV 2.6	2.6	1" BSP(M)	230/50-60 Hz	55	2	SS 316
		ergo WUV 4.7	4.7	1" BSP(M)	230/50-60 Hz	74	2	SS 316
		ergo WUV 6.7	6.7	1.5" BSP(M)	230/50-60 Hz	110	2	SS 316
		ergo WUV 11	11	2.0" BSP(M)	230/50-60 Hz	172	3	SS 316
		ergo WUV 13.5	13.5	2.0" BSP(M)	230/50-60 Hz	235	3	SS 316
		ergo WUV 22.5	22.5	2.0" Flanged	230/50-60 Hz	360	1	SS 316
		ergo WUV 40	40	3.0" Flanged	230/50-60 Hz	690	2	SS 316
ergo WUV 55	55	3.0" Flanged	230/50-60 Hz	1010	3	SS 316		
ergo WUV 75	75	4.0" Flanged	230/50-60 Hz	1300	4	SS 316		
ergo WUV 98	98	6.0" Flanged	230/50-60 Hz	1680	5	SS 316		

## Wastewater Disinfection unit

60 mJ/cm <sup>2</sup> as per NSF / EPA guidelines	60%	Model No	Flow Rate	Inlet / Outlet Size	Voltage	Power Consumption	Number of UV lamps	Chamber Material
			Cu.m/H	inches	Volt	Watt	Nos.	n/a
Dosage Considered	UV Transmittance	ergo WWUV 2	2	1 1/2" BSP(M)	230/50-60 Hz	330	4	SS 316
		ergo WWUV 5	5	1 1/2" BSP(M)	230/50-60 Hz	560	8	SS 316
		ergo WWUV 10	10	2.0" Flanged	230/50-60 Hz	800	12	SS 316
		ergo WWUV 15	15	2.0" Flanged	230/50-60 Hz	1300	12	SS 316
		ergo WWUV 20	20	3.0" Flanged	230/50-60 Hz	1480	4	SS 316
		ergo WWUV 30	30	3.0" Flanged	230/50-60 Hz	2220	6	SS 316
		ergo WWUV 40	40	4.0" Flanged	230/50-60 Hz	2910	8	SS 316
		ergo WWUV 55	55	6.0" Flanged	230/50-60 Hz	3600	10	SS 316



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