

The UV Process

Ultra Violet disinfection technology seeks to use the same process as nature to provide drinking water that is safe to drink and free of disease causing pathogens. Bacterial, viral and cyst contamination of drinking water is becoming more prevalent and we need to protect ourselves from harmful pathogens that are appearing more frequently than ever before. When exposed to high intensity UV light inside the Wyckomar UV reaction chamber, the disease causing micro-organisms are destroyed and the output water is disinfected. When properly installed all Wyckomar UV systems guarantee a 99.9% kill rate or better for common bacterial, viral and cyst contaminants. Employ UV technology anywhere there is a need for high-quality, safe clean and pure drinking or process water at an exceptionally low cost per litre. Wyckomar disinfection systems are used in more than 30 countries around the world and in a wide variety of applications including residential, commercial, industrial process water, military and emergency preparedness, aboard ship, extreme environment and many others.

Wyckomar UV Product Specifications

	Mini-Zap	UV-1	UV-250	UV-5	UV-700	UV-12.5	UV-1200	UV-1500	UV-3000	UV-5000	UV-30	UV-5007	
Rated Flow	0.7 LPM 0.2 GPM	4 LPM 1 GPM	15 LPM 4 GPM	19 LPM 5 GPM	30 LPM 8 GPM	47 LPM 12.5 GPM	45 LPM 12 GPM	57 LPM 15 GPM	113 LPM 30 GPM	189 LPM 50 GPM	114 LPM 30 GPM	833 LPM 220 GPM	
Initial UV Dose at Rated Flow (mJ/cm ²)	29.5	55	38	68	60	68	46	40	44	46	71	40.4	
Size	Length	13 cm 5 in	58.5 cm 23 in	58.5 cm 23 in	59 cm 23.25 in	104 cm 41 in	104 cm 41 in	104 cm 41 in	127 cm 50 in	132 cm 52 in	127 cm 50 in	142 cm 56 in	
	Width	6 cm 2.25 in	14 cm 5.5 in	14 cm 5.5 in	14 cm 5.5 in	12 cm 4.75 in	12 cm 4.75 in	15 cm 6 in	20.5 cm 8 in	20.5 cm 8 in	33 cm 13 in	33 cm 13 in	
	Height	25.5 cm 10 in	8 cm 3.25 in	8 cm 3.25 in	8 cm 3.25 in	8 cm 3.25 in	8 cm 3.25 in	8 cm 3.25 in	8 cm 3.25 in	20.5 cm 8 in	20.5 cm 8 in	11.5 cm 4.25 in	20.5 cm 8 in
Electrical	Volts	100-130 V 50-60 Hz 2-3	100-130 V 50-60 Hz 2-3	100-130 V 50-60 Hz 2-3	100-130 V 50-60 Hz 2-3	100-130 V 50-60 Hz 2-3	100-130 V 50-60 Hz 2-3	100-130 V 50-60 Hz 2-3	100-130 V 50-60 Hz 2	100-130 V 50-60 Hz 2	100-130 V 50-60 Hz 2	100-130 V 50-60 Hz 2	
	120V / 220v Nominal Input Power Consumption	17.4 VA 13.4 VA	54 VA	43 VA 70 VA	44.4 VA	66 VA 45 VA	72 VA	82 VA 66 VA	92 VA 77 VA	96 VA 92.4 VA	192 VA 154 VA	192 VA 154 VA	660 VA 539 VA
	Max Lamp Power (W)	4.5 W	12 W	23.4 W	44 W	40.8 W	83.9 W	83.9 W	110.8 W	100 W	110.8 W	100.8 W	110.8 W
Number of Lamps	1	1	1	1	1	1	1	1	1	2	2	7	
Max Operating Pressure	75 psi 5.2 bar	125 psi 8.6 bar	125 psi 8.6 bar	125 psi 8.6 bar	125 psi 8.6 bar	125 psi 8.6 bar	125 psi 8.6 bar	125 psi 8.6 bar	125 psi 8.6 bar	125 psi 8.6 bar	125 psi 8.6 bar	125 psi 8.6 bar	
Max Operating Temp	37°C	37°C	37°C	37°C	37°C	37°C	37°C	37°C	37°C	37°C	37°C	37°C	
Port Size / In-Out	1/8" NPT	1/4" MNPT	3/4" MNPT	3/4" MNPT	3/4" MNPT	3/4" MNPT	1" MNPT	1" MNPT	1.5" MNPT	2" MNPT	2" MNPT	3" FLANGE	
Audible and/or Visual Lamp Failure Alarm	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Chamber Material	ABS Plastic	304 SS ¹	304 SS ¹	316 SS ¹	304 SS ¹	316 SS ¹	304 SS ¹	316 SS	316 SS	316 SS	316 SS	316 SS	
UV Intensity Monitor (254 nm)	No	No	Optional	Yes	Optional	Yes	Optional	Optional	Optional	Optional	Yes	Optional	
Solenoid Valve	No	No	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	
Hour Meter	No	No	No	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	
Shipping Weight	1.1 kg 2.5 lbs	1.8 kg 4 lbs	3.2 kg 7 lbs	3.2 kg 7 lbs	5 kg 11 lbs	4.5 kg 10 lbs	4.5 kg 10 lbs	11.5 kg 25 lbs	20 kg 44 lbs	21 kg 46 lbs	21 kg 46 lbs	59kg ⁴ 130 lbs	

1. 316 L Stainless Steel available on request 2. 200-240 Volt / 50 Hz available on request
3. 12 Volt DC and/or Solar Powered available on request, please call 4. Not including Control Panel
V04.01 Wyckomar reserves the right to change specifications without notice.



Wyckomar Inc.

P.O. Box 611, 111 Malcolm Road
Guelph, ON, Canada N1H 6L3
Toll Free: 1-800-419-5162
Phone: (519) 822-1886 Fax: (519) 763-6580
E-mail: info@wyckomaruv.com Web: www.wyckomaruv.com



High Quality - Low Cost

UV Water Disinfection and Purification Products
Water System Integrators
Worldwide Since 1978



Made in Canada



Integrity and Service Wyckomar has been manufacturing quality UV water disinfection systems since 1978. We work with you to help build your business and to provide quality UV systems and accessories.

Low Capital Cost UV disinfection is an extremely cost effective method of providing safe drinking water when compared to other technologies such as chemical treatment.

Quality Systems Our UV systems are fully tested and certified to meet all health department standards.

Simple Installation Pre-assembled units require only and electrical connection and water connections to the unit.

Integrated Systems Combine pre-filtration and electronic de-scaling and conditioning system with UV disinfection to provide an all-in-one solution for most residential and commercial applications.

Ease of Maintenance and Monitoring Optional UV monitor will constantly validate the UV performance of the system. Lamp replacement is quick and easy.

Custom Systems For water flows up to 1800 GPM (7200 LPM) are quickly achieved by combining standard units in a custom configuration to suit your requirements.

Chemical-Free UV treatment is environmentally friendly.

Portable - Residential and Light Commercial Disinfection Systems

Mini-Zap Traveller

World travelers are naturally concerned about the quality of drinking water in many regions of the world. The Mini-Zap Traveller is designed to be a portable water disinfection system for use anywhere. This point-of-use system will destroy bacterial and viral pathogens in drinking water to 99.9% or better and the unit comes complete with faucet adapter and filter. The Mini-Zap Traveller is optionally available in 12v or 24v.



Mini-Zap Traveller



UV-1 System



UV-250

UV-5

UV-1 System

The UV-1 System is ideally suited to many point-of-use drinking water applications including under-counter use and in combination with reverse osmosis systems. Popular applications include using the UV-1 in RV's, aboard ship and for cottage or camp use. The UV-1 sterilizer is also popular as an integral part of water cooler assemblies. Compact and efficient, the UV-1 System (with filter) combines UV disinfection with high-quality pre-filtration to ensure safe, pathogen-free, clean drinking water at 1 GPM (4 LPM).

UV-250 & UV-5

The UV-250 disinfection system is designed as a point-of-entry system for small residential applications and may be adapted into a point-of-use model for under counter installation. The system operates at up to 4 GPM (15 LPM) and provides an effective 99.9% kill rate or better for most bacterial, viral and cyst contaminants in drinking water. The UV-5 unit is an upgrade to the UV-250 and offers an enhanced UV dose at 5 GPM (19 LPM).

Residential and Commercial/Industrial Disinfection Systems

UV-700 and UV-12.5

The best-selling UV-700 disinfection system is designed as a point-of-entry system for residential and small commercial applications. The system operates at up to 8 GPM (30 LPM) and provides an effective 99.9% kill rate or better for most bacterial, viral and cyst contaminants in drinking water. Combine these units with a filter-set for complete whole-house water treatment. When properly installed, these units deliver the UV dose now being recommended by many public health authorities. The UV-12.5 is an upgrade to the UV-700 and offers an enhanced UV dose at 12.5 GPM (47 LPM).



UV-700

UV-12.5
UV Plus
Monitoring
System



UV-3000

UV-5000

UV-1500 / UV-3000 / UV-5000 / UV-5007

These commercial / industrial disinfection systems are used in a variety of applications including food and beverage processing, pharmaceuticals, drinking water, process water and cooling towers. These systems are available in 304 and 316 stainless steel and in a variety of finishes. The commercial / industrial systems may be connected in series or in parallel for high-dose or high-volume applications and complete systems including pre-filtration can be easily created.

UV is a very cost effective disinfection method, and when used in high volume systems the cost savings in relation to chemical disinfection become obvious.

UV Monitor

The UV Monitor is a safety device that monitors the UV system effectiveness in real time and displays the UV lamp strength on the meter face. The UV monitor will sound an alarm and can trigger a solenoid valve to stop the water flow, if the UV lamp burns out or if the UV dose is inadequate.



UV-Monitor

Electronic De-scaling System

This easy to install de-scaling system will prevent lime scale buildup within a plumbing system resulting in reduced energy costs for heating systems and increased UV efficiency. Totally chemical free, the de-scaling system is very cost effective compared to traditional salt-based systems.

Solar-Powered UV Systems

These solar powered systems are ideally suited for remote regions and "off-grid" applications. Safe drinking water can be provided anywhere regardless of access to a reliable power source.



Solar Powered
UV System

Custom and Specialty Systems



UV-60

UV-60

Rugged (skid mounted) fully transportable water disinfection and purification system for use in rough environments including emergency preparedness, military and relief agency applications. Optional automated control.



Multi-Step
UV Purification System

Multi-Step System

Rugged (skid mounted) water disinfection and purification system for use in extreme environments. This system can be fully insulated, heat traced and explosion-proof. Currently used in locations such as off-shore oil/gas platforms.



UV-5007



All-In-One

All-In-One Systems

Wyckomar provides a wide variety of UV systems to meet all application needs. Integrated All-In-One systems provide complete water treatment in one easy step. These complete, easy to install systems include multiple layers of filtration, electronic de-scaling and conditioning (popular for applications where a water softener is not desired) along with UV disinfection.