

Water Treatment

Residential
Commercial
and Industrial
Applications



 **Wyckomar**

UV PURIFICATION SYSTEMS

Water System Integrators

Wyckomar Inc.

For more than 30 years, Wyckomar has been producing high quality water treatment systems. We are one of the early adopters of Ultra Violet technology

for purification of water and have gained

valuable experience over the years.

Our plant is located in Guelph, Ontario, Canada (just 1 hour west of Toronto.)

Flexible production schedules and a highly motivated and committed team of water treatment experts is our hallmark for timely production of off-the-shelf and

custom designed UV disinfection systems, while maintaining the high standard of quality that our customers expect from us.

Rigorous testing of every unit ensures that these systems will provide many years of trouble free operation. We are committed to prompt customer service and we guarantee a pleasant customer experience.





Corporate Profile

I am pleased to introduce Wyckomar Inc., a Canadian manufacturing company with more than 30 years of experience as a leader in the small systems sector of the global water purification industry. Our company currently exports from our main facility in Guelph, Ontario Canada to more than 20 countries worldwide.

This information package is designed to introduce our company, our products, our markets, our experience and our strengths in the water purification and custom manufacturing sector.

Wyckomar Inc. was founded in 1978 in response to a need for non-chemical technologies to produce safe, clean and pathogen-free drinking water to consumers around the globe. Our company played a key role in the development of Ultra Violet (UV) drinking water systems for residential and commercial use. Many of Wyckomar's original UV system designs are still in use today.

In the early days, our market penetration was most pronounced in regions of Europe where UV has long enjoyed a well-deserved reputation as a safe and effective, non-chemical water disinfection technology. Our UV systems have long been at home in the shipping industry, on vessels plying European waterways. More recently, our company has opened new domestic and export markets as the popularity of UV technology increases around the world.

Today, Wyckomar manufactures and sells a standard line of UV water purification systems for residential, commercial, industrial, small municipal and specialty applications. We also produce compact "All-In-One" skid mounted and wall mounted water systems for a wide variety of flow rates and applications. "All-In-One" systems are very popular with our customers as they offer a wide variety of filtration, water conditioning and UV disinfection options.

Partial List of Customers

Wyckomar has configured UV water purification systems for a wide variety of customers including Kellogg Brown & Root (international procurement and engineering firm), The Sable Island Offshore Energy Project (offshore oil/gas drilling platforms in eastern Canada), The US Armed Forces in Bosnia (transportable military grade systems), Canadian Coast Guard (ship-board waste water treatment systems), Cargill Inc., Exxon Mobile, National Beef, plus a wide variety of distributors, dealers and wholesalers in Canada, USA, Netherlands, New Zealand, Australia, China, UAE among others.

The use of UV light to sterilize and disinfect drinking water has a long history of success and is in fact being used in many municipal water treatment plants built in the last 20 years. The invisible rays of UV light are able to produce this very useful effect by mimicking nature. In nature, rays of the sun carry (among others) UV light in the germicidal wavelength of 254 nm. This particular wavelength of light is very damaging to living cells – hence the warnings to reduce human exposure to long periods of high-intensity sunlight – and it's lethal on the microscopic level to living pathogens in drinking water.

Our UV systems are able to provide safe water in regions where the water supply is suspect or in cases where the water supply is contaminated and otherwise unsafe to consume.

The technology is very effective against pathogens including bacterial, viral and protozoa contamination and in many cases can be outfitted to provide safe water even in regions where there is little or no access to electrical service. The use of solar panels to power UV systems has become popular in many parts of the developing world.

We Kill Harmful Bacteria and Other Pathogens Including

E.coli	Cryptosporidium
Coliform	Giardia
Legionella	Staphylococcus
Cholera	Mold
Anthrax	Poliovirus
Streptococcus	Hepatitis
Tuberculosis	Influenza
Coxsackie	Shigella
Typhoid	Rotavirus
Salmonella	Adenovirus

The principals of Wyckomar have many decades of combined experience in the water purification industry. Our staff is skilled in all facets of design, fabrication, efficacy validation, sales, customer service and follow-up.

At Wyckomar, we pride ourselves on being a true low-cost, high-quality manufacturer in an industry that has become one of the fastest growing in the world. Proper water treatment can make an enormous difference in the quality of life, the quality of commercial and industrial goods and processes, and the quality of business for the distribution agents that we partner with in many regions of the world.

Please contact us with any enquiries.

sales@wyckomaruv.com

Ultraviolet Sterilization Technology

Ultraviolet disinfection systems are mysterious to many people – how can “light” kill bacteria? But the truth is it can. Ultraviolet (UV) technology has been around for 50 years, and its effectiveness has been well documented both scientifically and commercially. It is nature’s own disinfection/purification method. With consumers becoming more concerned about chlorine and other chemical contamination of drinking water, more dealers are prescribing the ultraviolet solution suitable for both small flow residential applications as well as large flow commercial projects.

Ultraviolet is a means of killing or rendering harmless microorganisms in a dedicated environment. These microorganisms can range from bacteria and viruses to algae and protozoa. UV disinfections is used in air and water purification, sewage treatment protection of food and beverages, and many other disinfection and sterilization applications. A major advantage of UV treatment is that it is capable of disinfecting water faster than chlorine without cumbersome retention tanks and harmful chemicals. UV treatment systems are also extremely cost efficient!

What is UV and how does it work?

Ultraviolet is one energy region of the electromagnetic spectrum, which lies between the x-ray region and the visible region. UV itself lies in the ranges of 200 nanometers (nm) to 390 nanometers (nm). Optimum UV germicidal action occurs at 260 nm.

Since natural germicidal UV from the sun is screened out by the earth’s atmosphere, we must look to alternative means of producing UV light. This is accomplished through the conversion of electrical energy in a low-pressure mercury vapor “hard glass” quartz lamp. Electrons flow through the ionized mercury vapor between the electrodes of the lamp, which then creates UV light.

As UV light penetrates through the cell wall and cytoplasmic membrane, it causes a molecular rearrangement of the microorganism’s DNA, which prevents it from reproducing. If the cell cannot reproduce, it is considered dead.

Design and Dosage

The design of an ultraviolet sterilizer has an extremely important bearing on how the UV Dose is delivered and Dosage is the most critical function of UV disinfections. As individual UV lamps emit a set amount of ultraviolet energy, it is important that a system be sized correctly. Flow rates are the determining factor and must not be overstated. Contact time, which is the time the water is within the sterilization chamber, is directly proportional to Dosage, which is the amount of energy per unit area (calculated by dividing the output in watts by the surface area of the lamp), and thus the overall effectiveness of microbial destruction in

the system. This product of intensity and time is known as the Dose and is expressed in microwatt seconds per centimeter squared (uWsec/cm²). **Divide by 1000 to express the dose in mJ/cm², the preferred notation.**

$$\text{DOSE} = \frac{\text{time (sec)} \times \text{output (watts)}}{\text{area (cm}^2\text{)}}$$

For maximum UV transmission a “hard glass” quartz sleeve is recommended for two main reasons. It isolates the lamp from the water to offer more uniform operating temperatures and allows for higher UV output into the water.

A variety of optional features may be added on to the UV sterilizers. They include UV monitoring devices that measure the actual UV output, solenoid shut-off devices that will stop the water flow in the event of a system failure, flow control devices to properly limit the water flow in the units, audible and visual alarms (both local and remote) to warn of lamp failures, high temperature sensors to monitor excessive temperatures in the reactor chamber or control panel, and hour meters to monitor the running time of the UV lamps.

Advantages of UV Sterilization

Following are the advantages of UV sterilization:

- Environmentally friendly, no dangerous chemicals to handle or store, no problem of overdosing (it's impossible).
- Low initial capital cost as well as reduced operating expenses when compared with similar technologies such as ozone, chlorine, etc.
- Immediate treatment process, no need for holding tanks, long retention times, etc.
- Extremely economical, hundreds of gallons may be treated for each penny of operating cost.
- No chemicals added to the water supply – no by-products (i.e. chlorine + organics = trihalomethanes).
- No change in taste, odor, pH or conductivity or the general chemistry of the water.
- Automatic operation without special attention or measurement, operator friendly.
- Simplicity and ease of maintenance, periodic cleaning (if applicable) and annual lamp replacement, no moving parts to wear out.
- No handling of toxic chemicals, no need for specialized storage requirements, no WHMIS requirements.
- Easy installation, only two water connections and a power connection.
- Compatible with all other water processes (i.e., RO, filtration, ion exchange, etc.)

Factors Affecting UV

Because UV does not leave any measurable residual in the water it is recommended that the UV sterilizer be installed as the final step of treatment and located as close as possible to the final distribution system. Once the quality of your water source has been determined, you will need to look at things that will inhibit the UV from functioning properly (e.g., iron manganese, TDS, turbidity, and suspended solids).

Iron and Manganese will cause staining on the quartz sleeve and prevent the UV energy from transmitting into the water at levels as low as 0.03 ppm of iron and 0.05 ppm of manganese. Proper pretreatment is required to eliminate this staining problem.

Total Dissolved Solids (TDS) should not exceed approximately 500 ppm. There are many factors that make up this equation such as the particular make-up of the dissolved solids and how fast they absorb the sleeve, again impeding the UV energy from penetrating the water.

Turbidity is the inability of light to travel through water. Turbidity makes water cloudy and aesthetically unpleasant. In the case of UV, levels over 1 NTU can shield microorganisms from the UV energy, making the process ineffective.

Suspended Solids need to be reduced to a maximum of 5 microns in size. Larger solids have the potential of harboring or encompassing the microorganisms and preventing the necessary UV exposure. Pre-filtration is a must on all UV applications to effectively destroy microorganisms to a 99.9% kill rate.

Additional Factors affecting UV is temperature. The optimal operating temperature of a UV lamp must be near 40°C (104°F). UV levels fluctuate with temperature levels. Typically a quartz sleeve is installed to buffer direct lamp-water contact thereby reducing any temperature fluctuations.

UV Applications

One of the most common uses of ultraviolet sterilization is the disinfection of domestic water supplies due to contaminated wells. Coupled with appropriate pre-treatment equipment, UV provides an economical, efficient and user-friendly means of producing potable water.

The following list shows a few more areas where ultraviolet technology is currently in use:

surface water	laboratories	bottled water plants
ground water	wineries	pharmaceuticals
cisterns	dairies	mortgage approvals
breweries	farms	electronics
hospitals	hydroponics	aquaria
restaurants	spas	boats and RV's
vending	canneries	printing
cosmetics	food products	butter processing
bakeries	distilleries	petro chemicals
schools	fish hatcheries	photography
boiler feed water	water softeners	swimming pools
and much more...		

Installation and Maintenance Guidelines

Once the application has been determined, you should find a location that offers easy access for service. You will need to have access to the pre-filters, to the UV chamber for annual lamp changes and regular maintenance on the quartz sleeve. You will want to locate near an electrical outlet. *Note: Using a UV system and a pump on the same electrical line may cause problems with and shorten the life of the UV lamp and ballast. UV units should be installed on the cold water line before any branch lines and should be last point of treatment. All points of the distribution system after the sterilizer must be chemically "shocked" to ensure that the system is free from any downstream microbial contamination. Lamp changes should be done at least once every year. Filter changes are done according to the water soapy solution. If there is residue left, you may need to use a non-abrasive cleaner that does not scratch the surface and is formulated to remove iron and scale buildup. Do not leave fingerprints on the glass! It is imperative to follow the manufacturers guidelines on water quality and operational procedures.

Summary

The need for ultraviolet sterilization products can be found in virtually all areas in both residential and commercial applications alike. Its simplistic design, ease of maintenance and low capital and operating costs make UV the number one choice in contaminated water situations. Health professionals and water specialists are becoming aware of possible side effects of chemical sterilizers and their resultant chemical by-products. Because of its advantages, UV irradiation should become a very popular choice for the disinfection of water supplies in the 21st century.

Next time, purify water "*natures way*"...use ultraviolet light.

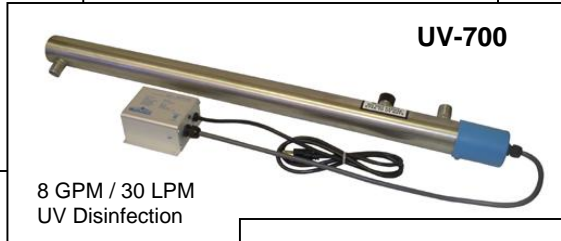
UV Inactivation Chart¹ (in mJ/cm²)

Typical Wyckomar UV systems produce UV doses of 38 – 60 mJ/cm²

Organism	Type	Affiliated Disease, Contamination, Toxin	Dose log 3
<i>Agrobacterium tumefaciens</i>	Bacterium	Crown Gall disease in Dicotyledons (Grapes, Berries, Fruits, Nuts)	8.5
<i>Aeromonas hydrophila</i>	Bacterium	Tissue damage in humans (opportunistic pathogen)	3.9
<i>Aspergillus flavus</i> (yellow green)	Fungus (Mold Spore)	Aspergillosis of the lungs, corneal infections	99.0
<i>A. glaucus</i> (blue green)	Fungus (Mold Spore)	Allergenic	88.0
<i>A. niger</i> (black)	Fungus (Mold Spore)	Otomycosis, Black mold on fruits and vegetables	330.0
<i>Adenoviridae</i>	Virus	Upper respiratory infections	90.0
<i>Bacillus anthracis</i>	Bacterium	Anthrax	8.7
<i>B. anthracis</i> (spores)	Bacterium	Anthrax	46.2
<i>B. megatherium</i> (vegetable)	Bacterium	Infections, food poisoning	2.5
<i>B. megatherium</i> (spores)	Bacterium	Infections, food poisoning	52.0
<i>B. paratyphosus</i>	Bacterium	non pathogenic	6.1
<i>B. subtilis</i> (vegetable)	Bacterium	Ropiness in bread dough, food contamination	11.0
<i>B. subtilis</i> (spores)	Bacterium	Ropiness in bread dough, food contamination	61.0
<i>Campylobacter jejuni</i>	Bacterium	Food poisoning, gastroenteritis	4.0
<i>Chlorella vulgaris</i>	Protist (algae)	Plant pathogen	22.0
<i>Clostridium Tetani</i>	Bacterium	Tetanus	23.1
<i>C. botulinum</i>	Bacterium	Produces Botulin toxin	11.2
Coliphage	Virus	Bacteriophage that infects E. coli	6.6
<i>Corynebacterium diphtheriae</i>	Bacterium	Diphtheria	6.5
Coxsackie A	Virus	Hand, foot & mouth disease, conjunctivitis, herpangina	6.9
Coxsackie B	Virus	Pericarditis, myocarditis, gastrointestinal distress	20.6
<i>Cryptosporidium parvum</i>	Protist	Cryptosporidiosis	10.0
<i>Eberthella typhosa</i>	Bacterium	Typhoid fever	4.1
<i>Escherichia coli</i>	Bacterium	Food poisoning, gastroenteritis, meningitis	8.6
<i>Giardia lamblia</i>	Protist	Giardiasis	(cyst) 100
Hepatitis virus	Virus	Hepatitis, jaundice	8.0
Influenza virus	Virus	Influenza, respiratory infections	6.6
<i>Legionella bozemanii</i>	Bacterium	Pneumonia	3.5
<i>L. dumoffii</i>	Bacterium	Pneumonia	5.5
<i>L. gormanii</i>	Bacterium	Pneumonia	4.9
<i>L. longbeachae</i>	Bacterium	Legionnaire's disease, pontiac fever	2.9
<i>L. micdadei</i>	Bacterium	Influenza, Pittsburgh pneumonia	3.1
<i>L. pneumophila</i>	Bacterium	Legionnaire's disease	3.8
<i>Leptospira interrogans</i>	Bacterium	Leptospirosis (Weil's disease, canicola fever, canefield fever, 7-day fever)	6.0
<i>Micrococcus candidus</i>	Bacterium		12.3
<i>M. sphaeroides</i>	Bacterium		15.4
<i>Mycobacterium tuberculosis</i>	Bacterium	Tuberculosis	10.0
<i>Mucor racemosus</i> A	Fungus (Mold Spore)	Fungal plant pathogen, zygomycosis and fungal sinusitis in humans	35.2
<i>Neisseria (Moraxella) catarrhalis</i>	Bacterium	Otitis media, sinusitis, laryngitis	8.5
Nematode eggs (Roundworm)	Parasite	Ascariasis, Appendicitis, Loeffler's Syndrome	92.0
<i>Oospora lactis</i>	Fungus (Mold Spore)	Fruit rot (rapid decay of ripe fruits, potatoes), mold in dairy products	
<i>Paramecium</i> spp.	Protist		
<i>Penicillium digitatum</i> (olive)	Fungus (Mold Spore)	Fungal spoilage in fruits and vegetables	88.0
<i>P. expansum</i> (olive)	Fungus (Mold Spore)	Postharvest decay of stored apples	22.0

<i>P. roqueforti</i> (green)	Fungus (Mold Spore)	Producing harmful secondary metabolites (alkaloids and other mycotoxins)	26.4
<i>Phytophthora tumefaciens</i>	Bacterium	Crown Gall disease in Dicotyledons (Grapes, Berries, Fruits, Nuts)	8.5
Polio virus	Virus	Poliomyelitis (Polio)	29.0
<i>Proteus vulgaris</i>	Bacterium	Infections (esp. sinus and respiratory, urinary tract)	6.6
<i>Pseudomonas aeruginosa</i> (lab)	Bacterium	Hospital acquired infections, ear infection and dermatitis in pools & tubs	3.9
<i>Pseudomonas aeruginosa</i> (env.)	Bacterium	Hospital acquired infections, ear infection and dermatitis in pools & tubs	10.5
<i>Rhizopus nigricans</i> (black)	Fungus (Mold Spore)	Infections, allergic reactions (known as breadmold)	220.0
<i>Rhodospirillum rubrum</i>	Bacterium		6.2
Rotavirus	Virus	Infections, severe diarrhoea, gastroenteritis	26.0
<i>Saccharomyces</i> sp.	Yeast		13.2
<i>Salmonella enteritidis</i>	Bacterium	Egg-associated Salmonellosis (fever, abdominal cramps, diarrhoea)	7.6
<i>S. paratyphi</i>	Bacterium	Enteric fever	6.1
<i>S. typhi</i>	Bacterium	Typhoid fever	6.4
<i>S. typhimurium</i>	Bacterium		
<i>Sarcina lutea</i>	Bacterium		26.4
<i>Serratia marcescens</i>	Bacterium	Nosocomial (Hospital acquire)d infections	6.2
<i>Shigella dysenteriae</i>	Bacterium	Epidemic dysentery	4.2
<i>S. flexneri</i>	Bacterium	Shigellosis, dysentery	3.4
<i>S. sonnei</i>	Bacterium	Shigellosis	7.0
<i>Staphylococcus aureus</i>	Bacterium	Staph and nosocomical infections, toxic shock syndrome	7.0
<i>S. epidermidis</i>	Bacterium	Infections in catheters and prostheses	5.8
<i>S. faecalis</i>	Bacterium		10.0
<i>Streptococcus hemolyticus</i>	Bacterium	Strep throat	5.5
<i>S. faecalis</i>	Bacterium	Endocarditis, bladder and prostate infection	8.0
<i>S. lactis</i>	Bacterium		8.8
<i>S.pyogenes</i>	Bacterium	Scarlet fever, toxic shock syndrome, flesh eating disease	8.8
<i>S. viridans</i>	Bacterium	Mouth or gingival infections, endocarditis	3.8
<i>Tobacco mosaic virus</i>	Virus	Mottling and discoloration in plants	440.0
<i>Vibrio cholerae</i>	Bacterium	Cholera	2.2
<i>Yersinia enterocolitica</i>	Bacterium	Yersiniosis (fever, abdominal pain, diarrhoea)	3.7

¹ UV energy levels required at 254 nanometer wavelength for 99.9% destruction of organisms



Residential Water Purification Systems
1, 4 & 8 GPM
Basic Models for POU / POE
Available with or without Pre-Filtration
(20, 5, 1 Micron Sediment, 5 or 0.5 Micron Carbon Block)
UV Disinfection For Bacteria / Virus Destruction



SPECIFICATIONS



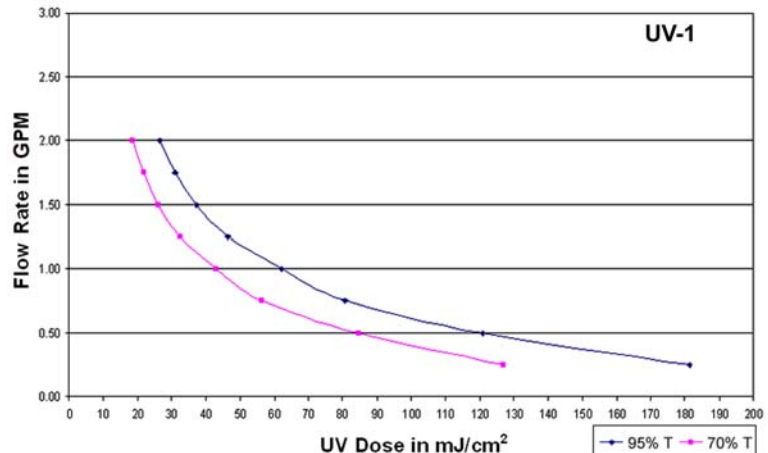
WYCKOMAR 1 GPM POU System

Rated Flow:	4 litres per minute (1 GPM) 240 litres/hour, 5760 litres/day (60 gallons/hour, 1440 gallons/day)
Initial UV Dose at Rated Flow:	63 mJ/cm ² (63,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Approx. Power Usage:	12 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	3/8" MNPT In/Out
Chamber Material:	304L Stainless Steel
Filtration:	5 Micron Sediment Filter 0.5 Micron Carbon Block Filter
Accessories:	Mounting Bracket, Wrench, Faucet

This All-in-One Water Treatment System is sized for the needs of the average household to provide purified drinking water at the point of use. Typically installed under the sink, it is used for treating municipal water. It will purify the water from most contaminants such as sediments, rust and pesticides with filtration in 2 stages down to 0.5 micron. Carbon filtration reduces taste and odor, including sulphur smell and chlorine residuals. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Dose Chart



Alarm System

The UV-1 System comes equipped with an alarm system which sounds an audible alarm if the UV lamp is not functioning properly.

This residential water purification system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.

Specifications may be subject to change



SPECIFICATIONS



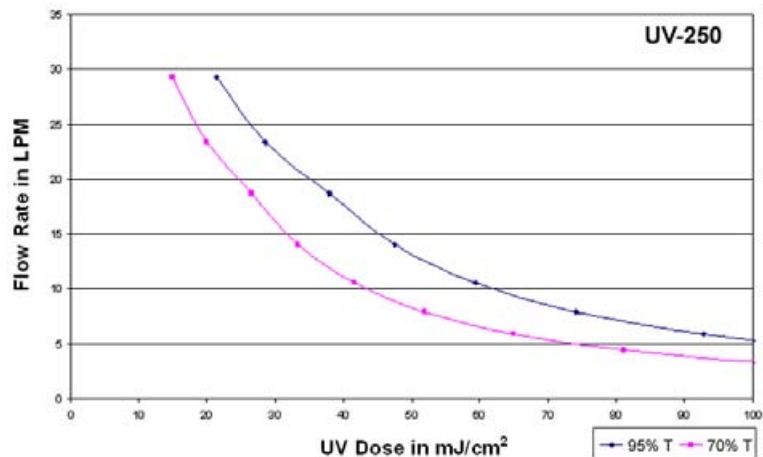
WYCKOMAR UV-250 System

Rated Flow:	15 litres per minute (4 GPM) 900 litres/hour, 21600 litres/day (240 gallons/hour, 5760 gallons/ day)
Initial UV Dose at Rated Flow:	46 mJ/cm ² (46,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Approx. Power Usage:	23.4 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	3/4" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L available)
Filtration:	5 Micron Sediment Filter 5 Micron Carbon Block Filter
Accessories:	Mounting Bracket, Wrench, S-Pipe

This All-in-One Water Treatment System is sized for the needs of the average household to provide purified water for domestic use. Typically installed at the point of entry, it is used for treating municipal water. It will purify the water from most contaminants such as sediments, rust and pesticides with filtration down to 5 micron. Carbon filtration reduces taste and odor, including sulphur smell and chlorine residuals. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Dose Chart



Alarm System

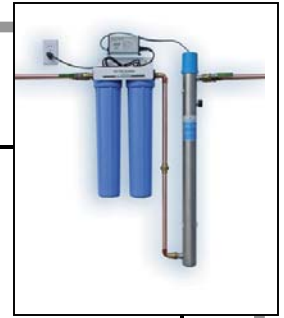
The UV-250 System comes equipped with an alarm system which sounds an audible alarm if the UV lamp is not functioning properly.

This residential water purification system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.

Specifications may be subject to change



SPECIFICATIONS



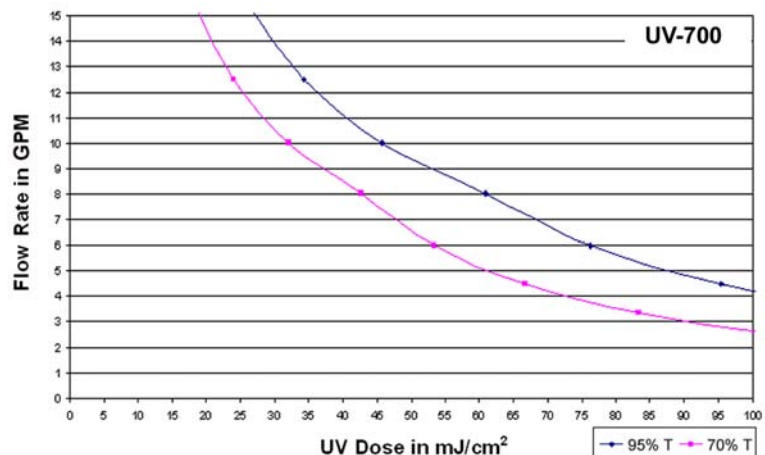
WYCKOMAR UV-700 System

Rated Flow:	30 litres per minute (8 GPM) 1800 litres/hour, 43200 litres/day (480 gallons/hour, 11520 gallons/ day)
Initial UV Dose at Rated Flow:	62 mJ/cm ² (62,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Approx. Power Usage:	40.8 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	3/4" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L available)
Filtration:	5 Micron Sediment Filter 5 Micron Carbon Block Filter
Accessories:	Mounting Bracket, Wrench, S-Pipe

This All-in-One Water Treatment System is sized for the needs of the average to larger household to provide purified water for domestic use. Typically installed at the point of entry, it is used for treating municipal water. It will purify the water from most contaminants such as sediments, rust and pesticides with filtration down to 5 micron. Carbon filtration reduces taste and odor, including sulphur smell and chlorine residuals. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Dose Chart



Alarm System

The UV-700 System comes equipped with an alarm system which sounds an audible alarm if the UV lamp is not functioning properly.

This residential water purification system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.

Specifications may be subject to change



UV-1200



12 GPM / 45 LPM
UV Disinfection

UV-1500



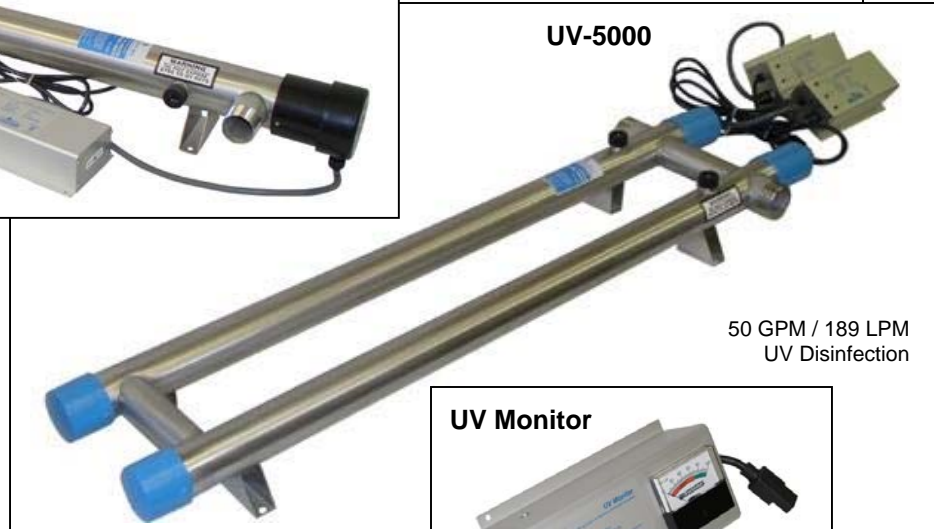
15 GPM / 57 LPM
UV Disinfection

UV-3000



30 GPM / 113 LPM
UV Disinfection

UV-5000



50 GPM / 189 LPM
UV Disinfection

High Volume Filter Set



UV Monitor



Real Time Monitoring
of UV Lamp Power

Residential/Commercial Water Purification Systems

12, 15, 30 & 50 GPM

Basic Models for POE

Available with or without Pre-Filtration

UV Disinfection For Bacteria / Virus Destruction



SPECIFICATIONS



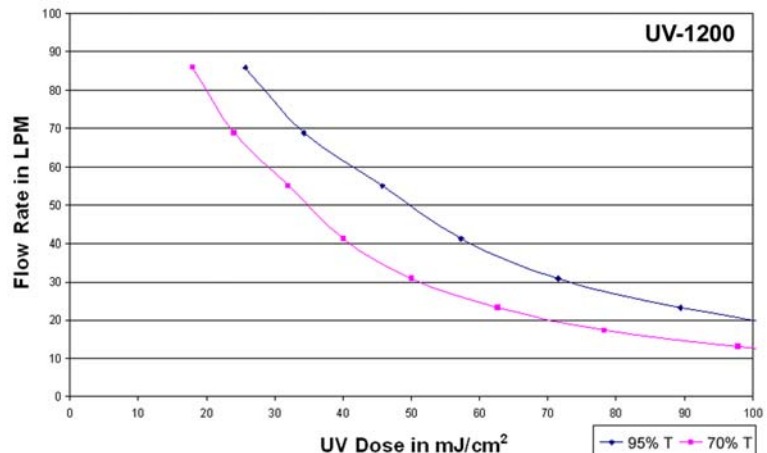
WYCKOMAR UV-1200 System

Rated Flow:	45 litres per minute (12 GPM) 2700 litres/hour, 64800 litres/day (720 gallons/hour, 17280 gallons/ day)
Initial UV Dose at Rated Flow:	54 mJ/cm ² (54,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Approx. Power Usage:	84 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	1" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L available)
Filtration:	5 Micron Sediment Filter 5 Micron Carbon Block Filter
Accessories:	Mounting Bracket, Wrench, S-Pipe
Additional Features (Optional):	Electronic Deposit Control, UV-Monitor, Solenoid Valve

This All-in-One Water Treatment System is sized for the needs of larger households and small to medium commercial applications to provide purified process or drinking water. Typically installed at the point of entry, it is used for treating municipal water. It will purify the water from most contaminants such as sediments, rust and pesticides with filtration down to 5 micron. Carbon filtration reduces taste and odor, including sulphur smell and chlorine residuals. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Dose Chart



Alarm System

The UV-1200 System comes equipped with an alarm system which sounds an audible alarm if the UV lamp is not functioning properly.

This residential/commercial water purification system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.

Specifications may be subject to change



SPECIFICATIONS



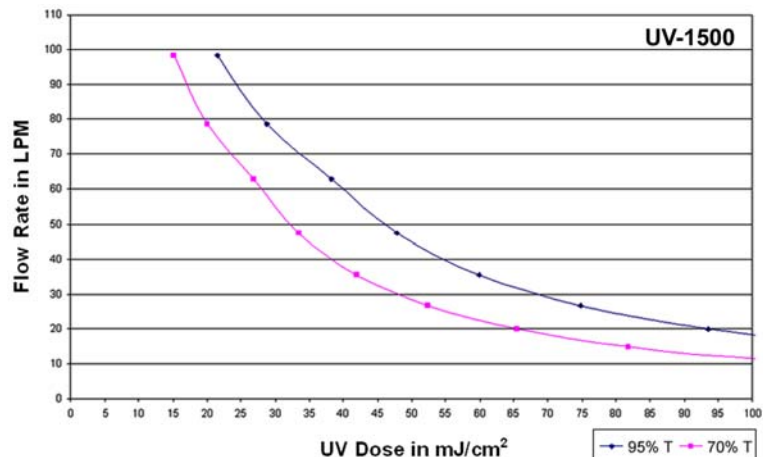
WYCKOMAR UV-1500 System

Rated Flow:	57 litres per minute (15 GPM) 3420 litres/hour, 82,080 litres/day (900 gallons/hour, 21,600 gallons/ day)
Initial UV Dose at Rated Flow:	42 mJ/cm ² (42,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Approx. Power Usage:	110 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	1" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L available)
Filtration:	5 Micron Sediment Filter 5 Micron Carbon Block Filter
Accessories:	Mounting Bracket, Wrench, S-Pipe
Additional Features (Optional):	Electronic Deposit Control, UV-Monitor, Solenoid Valve

This All-in-One Water Treatment System is sized for the needs of larger households and small to medium commercial applications to provide purified process or drinking water. Typically installed at the point of entry, it is used for treating municipal water. It will purify the water from most contaminants such as sediments, rust and pesticides with filtration down to 5 micron. Carbon filtration reduces taste and odor, including sulphur smell and chlorine residuals. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Dose Chart



Alarm System

The UV-1500 System comes equipped with an alarm system which sounds an audible alarm if the UV lamp is not functioning properly.

This residential/commercial water purification system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.

Specifications may be subject to change



SPECIFICATIONS



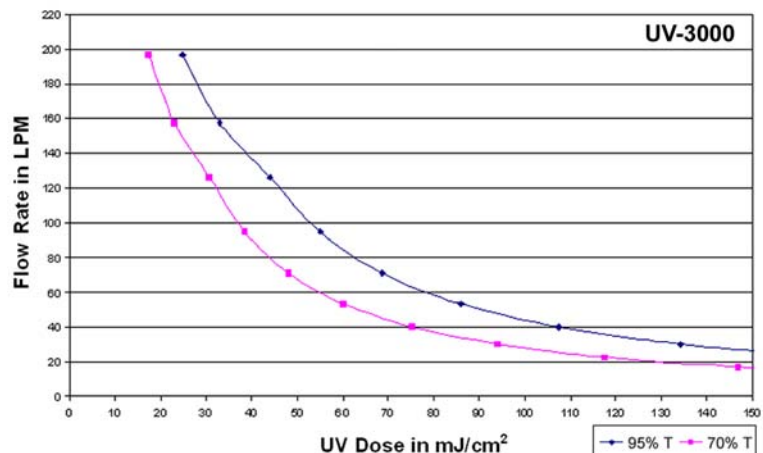
WYCKOMAR UV-3000 System

Rated Flow:	113 litres per minute (30 GPM) 6780 litres/hour, 162,720 litres/day (1,800 gallons/hour, 43,200 gallons/ day)
Initial UV Dose at Rated Flow:	49 mJ/cm ² (49,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Approx. Power Usage:	100 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	1.5" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L available)
Filtration:	5 Micron BigBlue Sediment Filter 5 Micron BigBlue Pleated Carbon Filter
Accessories:	Mounting Bracket, Wrench, S-Pipe
Additional Features (Optional):	Electronic Deposit Control, UV-Monitor, Solenoid Valve

This All-in-One Water Treatment System is sized for the needs of larger households and small to medium commercial applications to provide purified process or drinking water. Typically installed at the point of entry, it is used for treating municipal water. It will purify the water from most contaminants such as sediments, rust and pesticides with filtration down to 5 micron. Carbon filtration reduces taste and odor, including sulphur smell and chlorine residuals. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Dose Chart



Alarm System

The UV-3000 System comes equipped with an alarm system which sounds an audible alarm if the UV lamp is not functioning properly.

This residential/commercial water purification system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.

Specifications may be subject to change



SPECIFICATIONS



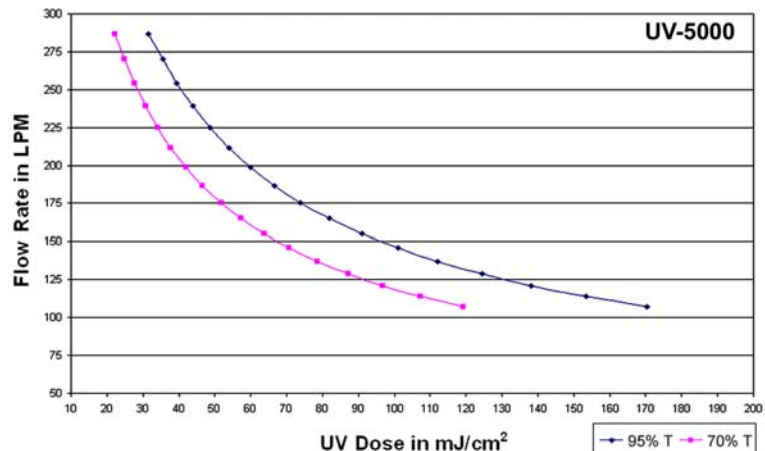
WYCKOMAR UV-5000 System

Rated Flow:	189 litres per minute (50 GPM) 11,340 litres/hour, 272,160 litres/day (3,000 gallons/hour, 72,000 gallons/ day)
Initial UV Dose at Rated Flow:	61 mJ/cm ² (61,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Approx. Power Usage:	2 x 110 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	2" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L available)
Additional Features (Optional):	Electronic Deposit Control, UV-Monitor, Solenoid Valve

This All-in-One Water Treatment System is sized for the needs of larger households and medium to larger commercial applications to provide purified process or drinking water. Typically installed at the point of entry, it is used for treating municipal water. It will purify the water from most contaminants such as sediments, rust and pesticides with filtration down to 5 micron. Carbon filtration reduces taste and odor, including sulphur smell and chlorine residuals. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Dose Chart



Alarm System

The UV-5000 System comes equipped with an alarm system which sounds an audible alarm if the UV lamp is not functioning properly.

This residential/commercial water purification system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.

Specifications may be subject to change



POU600



1 GPM / 4 LPM

POU250



4 GPM / 15 LPM

MD1003



8 GPM / 30 LPM

MD1004



12 GPM / 45 LPM

MD1005



15 GPM / 57 LPM

MD1006



30 GPM / 113 LPM

Integrated Water Purification Systems

1 GPM to 30 GPM

All-in-One Treatment with Multiple Filtration Levels

UV Disinfection For Bacteria / Virus Destruction

Optional Monitor, Solenoid Valve, Electronic Fluid Conditioning

Pre-Assembled Systems, Easy to Install



Integrated Water Purification Systems

Pre-Assembled Units for Plug-and-Play

The Wyckomar Integrated Water Treatment Systems are ideal for residential, commercial and industrial applications where an all-in-one solution to a complex treatment problem is needed. Pre-assembly and pressure testing at the factory ensure that the systems are optimized for the treatment of the particular feed water and will work right out of the box.

These systems can be customized to remove almost any contamination that is in the water, from heavy metals (iron, manganese, arsenic among others) to VOC's, pesticides and, of course, all types of microorganisms. The rugged design of the systems will ensure many years of faithful service.



The picture shows some of the standard and optional features that can be installed with an integrated system:
Standard components: 2 – Sediment Filter, usually down to 5 Micron. 3 – Carbon Block Filter for taste and odour. 8 – UV Sterilizer. 12 – Electronic Ballast. 14 – Viewport. 15 – Power Cord. 16 – Panel (SS)
Optional components: 1 and 13 – Shutoff Valves (PVC or Stainless Steel). 4 – Electronic Deposit Control, Reaction Chamber. 5 – Solenoid Valve. 6 – Union. 7 – Drain. 9 – Surge Protector Power Pack. 10 – UV Monitor. 11 – Electronic Deposit Control, Control Panel.

SPECIFICATIONS



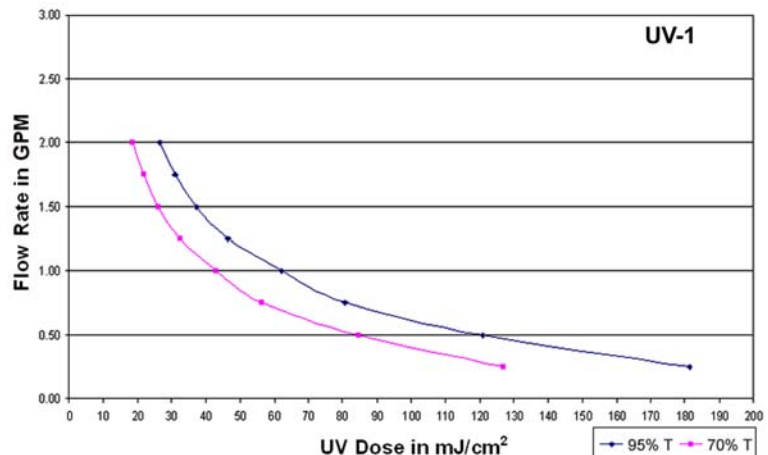
WYCKOMAR POU600 System

Rated Flow:	4 litres per minute (1 GPM) Service flow can be up to 8 LPM / 2 GPM
Initial UV Dose at Rated Flow:	63 mJ/cm ² (63,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Approx. Power Usage:	12 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	1/2" MNPT In/Out
Chamber Material:	304L Stainless Steel
Filtration (BigBlue 10" Housings):	Sediment Filter Granular Activated Carbon (GAC) Filter Carbon Block Filter
Accessories:	Electronic Deposit Control, Flow Meter, Manual Isolation Valves

This All-in-One Water Treatment System is designed for the needs of laboratories, dental offices and other high-quality, low-flow requirement applications to provide purified drinking and process water at the point of use. It is used for treating municipal water. It will purify the water from most contaminants such as sediments, rust and pesticides with sediment filtration (available down to 0.35 micron). Carbon filtration reduces taste and odor, including sulphur smell and chlorine residuals. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Dose Chart



Alarm System

The POU600 System comes equipped with an alarm system which sounds an audible alarm if the UV lamp is not functioning properly. The deposit control system prevents scale build-up and greatly enhances the functionality of the system.

This water purification system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.

Specifications may be subject to change



SPECIFICATIONS



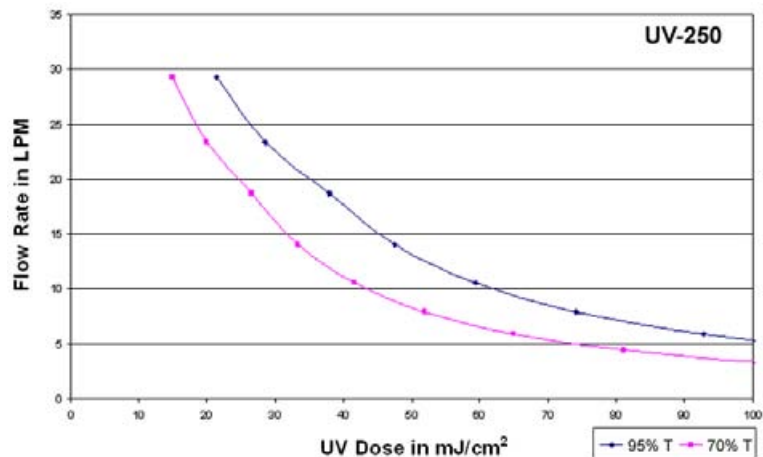
WYCKOMAR POU250 System

Rated Flow:	15 litres per minute (4 GPM)
Initial UV Dose at Rated Flow:	46 mJ/cm ² (46,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V / 50-60 Hz
Approx. Power Usage:	23.4 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	3/4" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L available)
Filtration (10" Housings):	5 Micron Sediment Filter 5 Micron Carbon Block Filter
Additional Features (Optional):	UV Monitor, Solenoid Valve Electronic Deposit Control, Spin-Down Separator, Manual Valves

This All-in-One Water Treatment System is designed for the needs of households up to 3 people, cottages, laboratories and other low-flow requirement applications to provide purified drinking water at the point of use. It is used for treating municipal water. It will purify the water from most contaminants such as sediments, rust and pesticides with sediment filtration. Carbon filtration reduces taste and odor, including sulphur smell and chlorine residuals. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Dose Chart



Alarm System

The POU250 System comes equipped with an alarm system which sounds an audible alarm if the UV lamp is not functioning properly. An optional deposit control system prevents scale build-up and greatly enhances the functionality of the system.

This water purification system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.

Specifications may be subject to change



SPECIFICATIONS



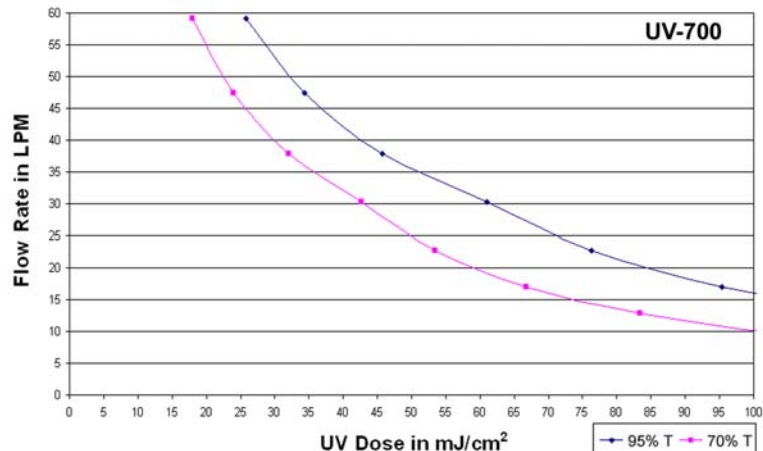
WYCKOMAR MD1003 Integrated System

Rated Flow:	30 litres per minute (8 GPM) 1800 litres/hour, 43200 litres/day (480 gallons/hour, 11520 gallons/ day)
Initial UV Dose at Rated Flow:	62 mJ/cm ² (62,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Size and Weight:	38 x 45 x 7.5 in., 95 lbs / 43 kg
Approx. Power Usage:	40.8 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	3/4" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L available)
Filtration:	5 Micron Sediment Filter GAC Filter, 5 Micron Carbon Block Filter
Additional Features (Optional):	UV Monitor, Solenoid Valve, Electronic Deposit Control, Spin-Down Separator

This All-in-One Water Treatment System is sized for the needs of the average to larger household to provide purified water for domestic use. Mounted on a stainless steel panel, it is easily installed at the point of entry for treatment of municipal water ("Plug-and-Play"). It will purify the water from most contaminants such as sediments, rust and pesticides with filtration down to 5 micron. Carbon filtration reduces taste and odor, including sulphur smell and chlorine residuals. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Dose Chart



Fail-Safe Operation

The MD1003 System can be equipped with a UV Monitor to monitor the UV light intensity in real time. An optional solenoid valve shuts off the flow of water should the monitor detect inadequate UV power.

This residential water purification system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.

Specifications may be subject to change



SPECIFICATIONS



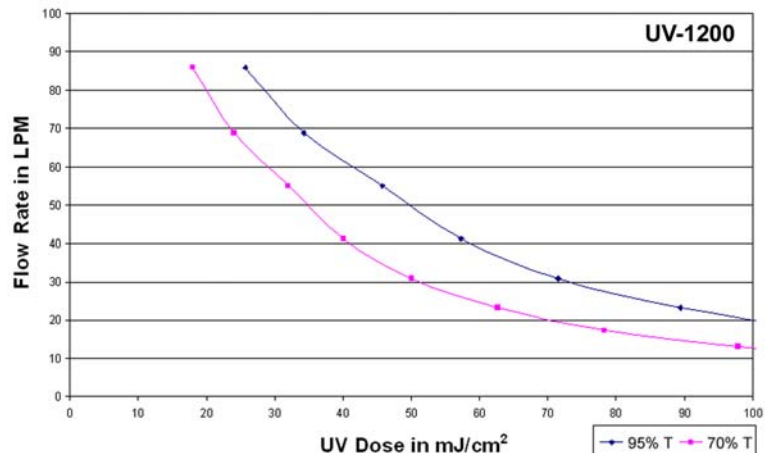
WYCKOMAR MD1004 Integrated System

Rated Flow:	45 litres per minute (12 GPM) 2700 litres/hour, 64800 litres/day (720 gallons/hour, 17280 gallons/ day)
Initial UV Dose at Rated Flow:	54 mJ/cm ² (54,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Size and Weight:	38 x 45 x 7.5 in., 95 lbs / 43 kg
Approx. Power Usage:	100 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	1" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L available)
Filtration:	5 Micron Sediment Filter GAC Filter , 5 Micron Carbon Block Filter
Additional Features (Optional):	UV-Monitor, Solenoid Valve Electronic Deposit Control

This All-in-One Water Treatment System is sized for the needs of the larger household or small to medium sized commercial application to provide purified drinking and process water. Mounted on a stainless steel panel, it is easily installed at the point of entry for treatment of municipal water ("Plug-and-Play"). It will purify the water from most contaminants such as sediments, rust and pesticides with filtration down 5 micron. Carbon filtration reduces taste and odor, including sulphur smell and chlorine residuals. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Dose Chart



Fail-Safe Operation

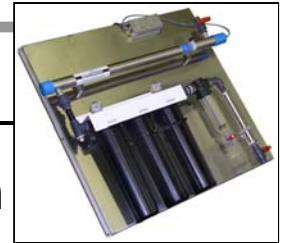
The MD1004 System can be equipped with a UV Monitor to monitor the UV light intensity in real time. An optional solenoid valve shuts off the flow of water should the monitor detect inadequate UV power.

This residential water purification system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.

Specifications may be subject to change



SPECIFICATIONS



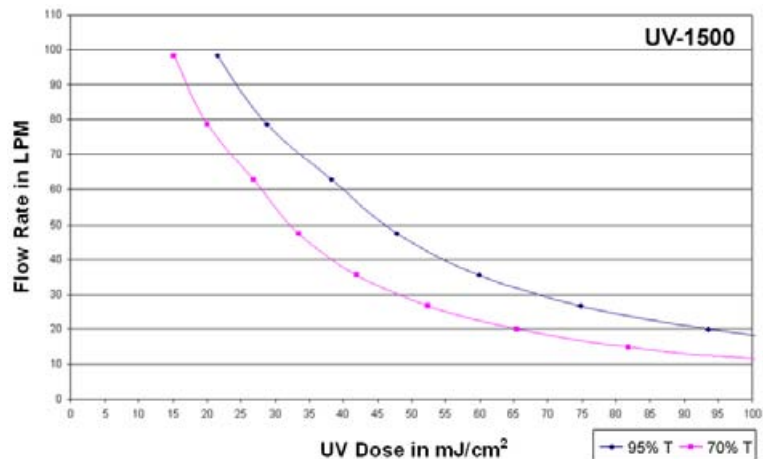
WYCKOMAR MD1005 Integrated System

Rated Flow:	57 litres per minute (15 GPM) 3420 litres/hour, 82,080 litres/day (900 gallons/hour, 21,600 gallons/ day)
Initial UV Dose at Rated Flow:	42 mJ/cm ² (42,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Size and Weight:	40 x 48 x 7.5 in., 110 lbs / 50 kg
Approx. Power Usage:	110 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	1" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L available)
Filtration:	5 Micron Sediment Filter GAC Filter , 5 Micron Carbon Block Filter
Additional Features (Optional):	UV-Monitor, Solenoid Valve, Electronic Deposit Control, Spin-Down Separator

This All-in-One Water Treatment System is sized for the needs of the larger household or small to medium sized commercial application to provide purified drinking and process water. Mounted on a stainless steel panel, it is easily installed at the point of entry for treatment of municipal water ("Plug-and-Play"). It will purify the water from most contaminants such as sediments, rust and pesticides with filtration down 5 micron. Carbon filtration reduces taste and odor, including sulphur smell and chlorine residuals. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Dose Chart



Fail-Safe Operation

The MD1004 System can be equipped with a UV Monitor to monitor the UV light intensity in real time. An optional solenoid valve shuts off the flow of water should the monitor detect inadequate UV power. A spin-down separator flushes out loose sediments and greatly increases the life-span of the filters

This residential water purification system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.

Specifications may be subject to change



SPECIFICATIONS



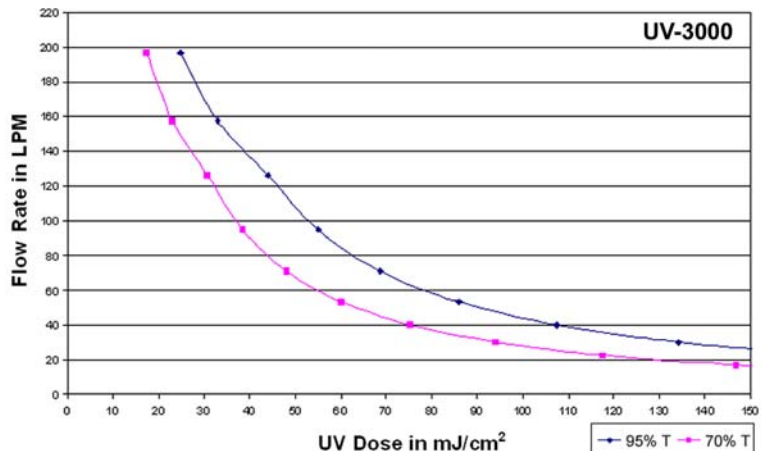
WYCKOMAR MD1006 Integrated System

Rated Flow:	113 litres per minute (30 GPM) 6780 litres/hour, 162,720 litres/day (1,800 gallons/hour, 43,200 gallons/ day)
Initial UV Dose at Rated Flow:	49 mJ/cm ² (49,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Size and Weight:	48 x 52 x 7.5 in., 122 lbs / 55.5 kg
Approx. Power Usage:	120 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	1.5" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L available)
Filtration:	5 Micron Sediment Filter (BigBlue) GAC (BigBlue)
Optional Features (Optional):	UV-Monitor, Solenoid Valve, Electronic Deposit Control

This All-in-One Water Treatment System is sized for large residential or small to medium sized commercial applications with a need for increased flow rates to provide purified drinking and process water. Mounted on a stainless steel panel, it is easily installed at the point of entry ("Plug-and-Play"). It will purify the water from most contaminants such as sediments, rust and pesticides with filtration down to 5 micron. Carbon filtration reduces taste and odor, including sulphur smell and chlorine residuals. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Dose Chart



Fail-Safe Operation

The MD1006 System can be equipped with a UV Monitor to monitor the UV light intensity in real time. A solenoid valve shuts off the flow of water should the monitor detect inadequate UV power. Optionally, it can be equipped with a deposit control.

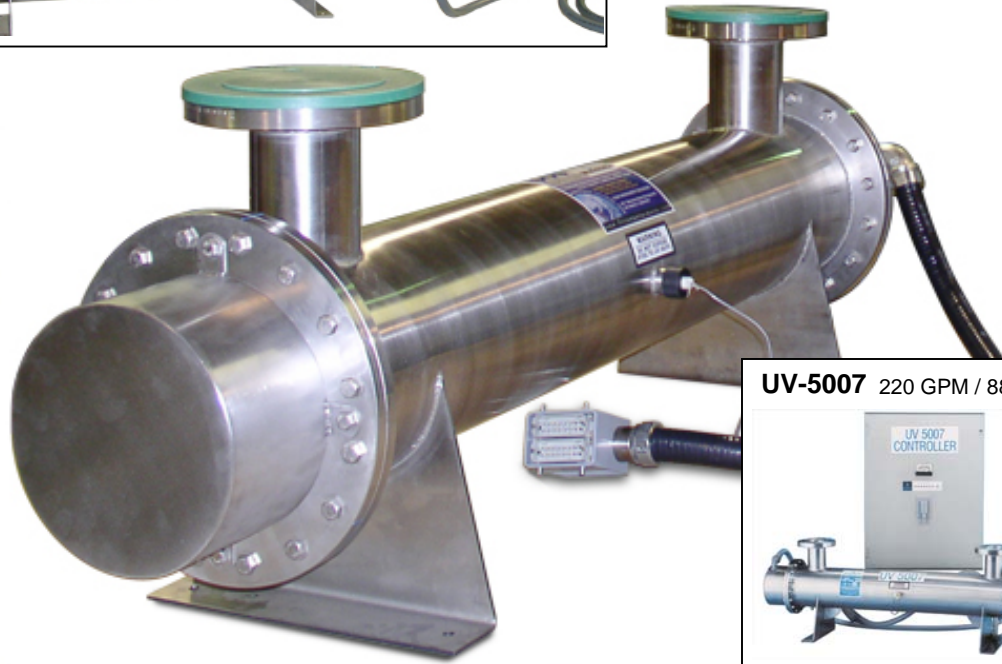
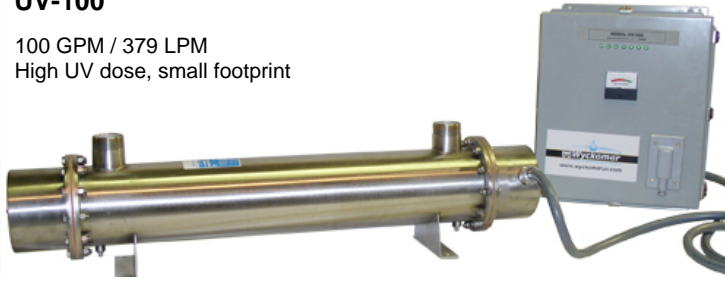
This residential water purification system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.

Specifications may be subject to change



UV-100

100 GPM / 379 LPM
High UV dose, small footprint



UV-5007 220 GPM / 883 LPM



Industrial Water Purification Systems

100 & 220 GPM

Powerful UV Disinfection for High Volume Applications
Optional Monitor, Solenoid Valve, Electronic Fluid Conditioning
UV Disinfection For Bacteria / Virus Destruction



SPECIFICATIONS

WYCKOMAR UV-100 System



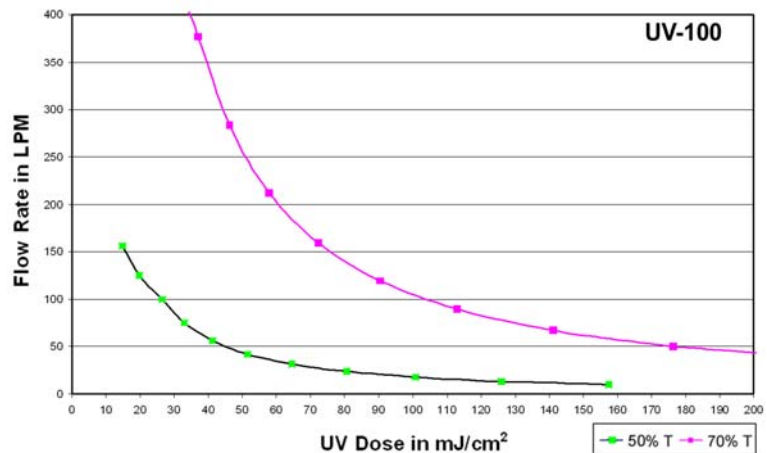
Rated Flow:	379 litres per minute (100 GPM) 22,740 litres/hour, 545,760 litres/day (6,000 gallons/hour, 144,000 gallons/d.)
Initial UV Dose at Rated Flow:	37 mJ/cm ² (37,000 uwsec/cm ²) @ 70% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Number of Lamps:	6 (at 84 Watts each)
Size and Weight:	46 x 8 x 10.5 in., 90 lbs / 41 kg
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	2" MNPT In/Out
Chamber Material:	316L Stainless Steel
Control Panel:	Integrated UV-Monitor
Additional Features (Optional):	Solenoid Valve, Electronic Deposit Control

The UV-100 System is a robust, efficient and cost-effective sterilizer unit for the disinfection of drinking and/or process water in industrial or institutional applications (e.g. food and beverage processing, agriculture, laboratories etc.) at up to 100 GPM (379 LPM).

This unit may be configured with a variety of pre-filter configurations and/or electronic de-scaling. Due to its small footprint and high volume capacity, it is extremely flexible across a wide range of applications. The UV-100 kills most harmful pathogens such as viruses, bacteria and protozoa with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others)



Dose Chart



Fail-Safe Operation

The UV-100 System is equipped with a control panel that has an integrated UV Monitor to monitor the UV light intensity in real time. A solenoid valve can be driven by the monitor to shut off the flow of water should an inadequate UV power be detected.

This industrial water purification system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.

Specifications may be subject to change



SPECIFICATIONS



WYCKOMAR UV-5007 System

Rated Flow:	833 litres per minute (220 GPM) 49980 litres/hour, 1,200,000 litres/day (13,200 gallons/hour, 316,800 gallons/d.)
Initial UV Dose at Rated Flow:	40 mJ/cm ² (40,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Number of Lamps:	7 (at 110 Watts each)
Size and Weight:	56 x 20 x 12.5 in., 130 lbs / 59 kg
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	3" Flange In/Out
Chamber Material:	316L Stainless Steel
Control Panel:	Integrated UV-Monitor
Additional Features (Optional):	Solenoid Valve, Electronic Deposit Control

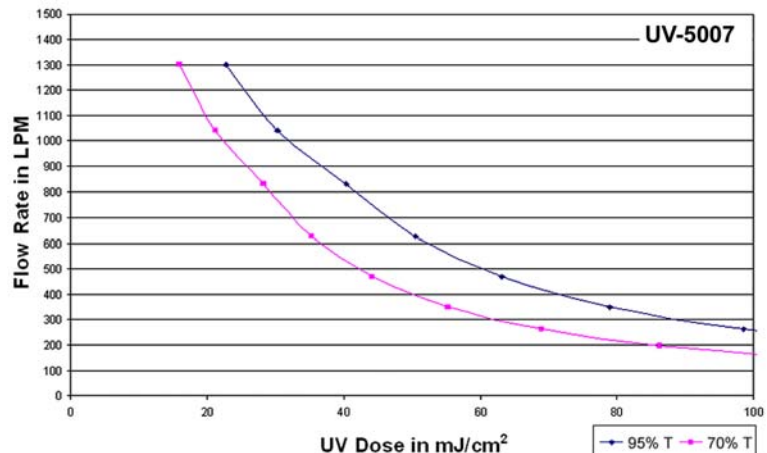
The UV-5007 System is a robust, efficient and cost-effective sterilizer unit for the disinfection of drinking and/or process water in industrial applications (e.g. food and beverage processing, cooling towers, swimming pools etc.) at up to 220 GPM (833 LPM).

This unit may be connected in series or in parallel for high-dose or high-volume applications, and complete systems including high-volume pre-filtration can easily be realized.

The UV-5007 kills most harmful pathogens such as viruses, bacteria and protozoa with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others)



Dose Chart



Fail-Safe Operation

The UV-5007 System is equipped with a control panel that has an integrated UV Monitor to monitor the UV light intensity in real time. A solenoid valve can be driven by the monitor to shut off the flow of water should an inadequate UV power be detected.

This industrial water purification system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.

Specifications may be subject to change





Wastewater Purification Systems

Powerful UV Disinfection for Effluent Wastewater

Small Footprint - High UV Dose

Equipped with Air-Drive Wiper System

Ideal for Use on Board of Ships



Effluent Wastewater Applications

UV Disinfection – the Chemical Free Choice

The Quattra Wastewater Treatment Systems from Wyckomar are designed to provide the maximum UV disinfection based on flow rates and effluent quality.

The Quattra series offers reliability and a compact footprint so these units may be used in a wide variety of applications where space is at a premium, especially on board of ships.

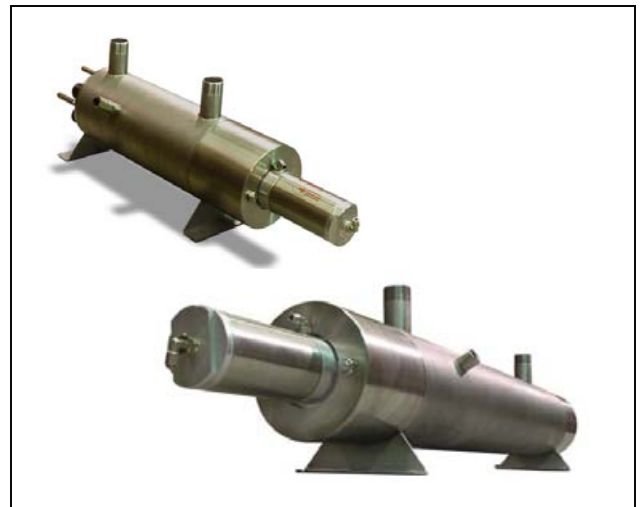
The heart of the Quattra series of UV systems is the four lamp array of high intensity UV lamps to apply the required UV dose for significant bacterial load reduction.

The Quattra UV's incorporated and adjustable integrated wiper systems help provide optimum UV penetration by maintaining a clean quartz sleeve inside the UV reactor.

These systems can be installed as a single unit or as part of a modular array for higher flow rates. It is recommended that the Quattra series UV systems be installed as part of a re-circulating waste water treatment system in order to achieve the maximum bacterial load reduction possible for the specific source effluent.

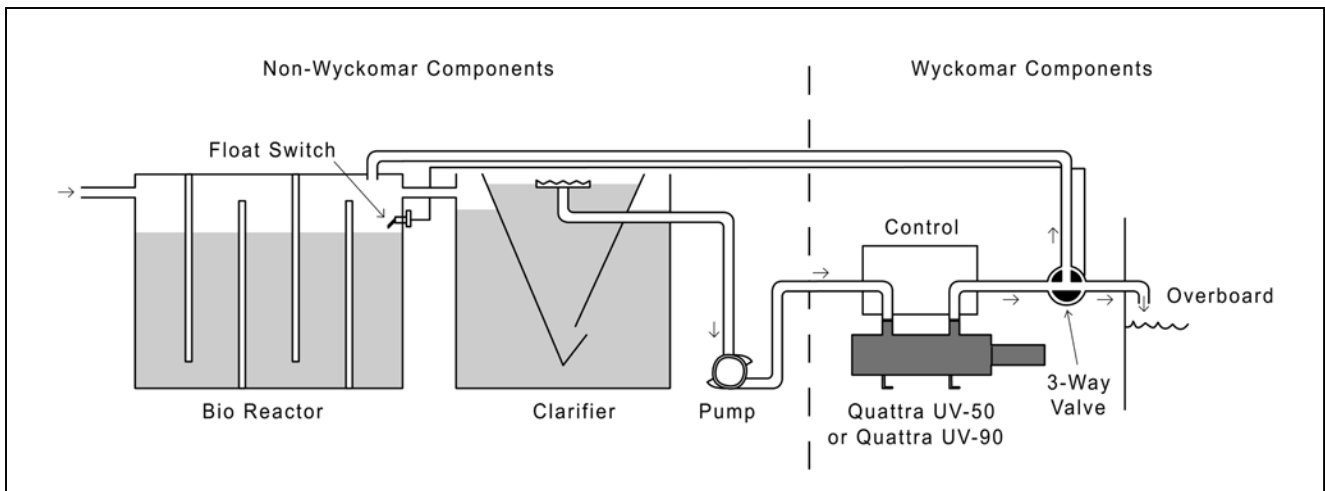


Small Footprint



Available in 2 models

Typical Schematic of On-Board Sewage System



SPECIFICATIONS



WYCKOMAR Quattra 50 UV System

Clear Water Rated Flow:	189 litres per minute (50 GPM) 11,340 litres/hour, 272,160 litres/day (3,000 gallons/hour, 72,000 gallons/day)
Initial UV Dose at Rated Flow:	40 mJ/cm ² (40,000 uwsec/cm ²) @ 95% T
Electrical:	110-130V / 50-60 Hz 220-240V/ 50-60 Hz
Number of Lamps:	4 (at 44 Watts each)
Size and Weight:	32 x 8 x 11 in., 150 lbs / 68 kg
Maximum Operating Temp:	40°C (104°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	1 1/4" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L available)
Control Panel:	Integrated UV-Monitor
Additional Features (Optional):	Solenoid Valve, Electronic Deposit Control

The Quattra 50 UV System is a small footprint, high dose disinfection sterilizer unit for the treatment of effluent wastewater. It is equipped with a pneumatic air-drive wiper system (on-site air required) for low-maintenance operation and is very well suited for use aboard ship and in other applications where space is at a premium.

The Quattra 50 UV is designed to significantly reduce bacterial load in effluent wastewater and is an integral part of a full wastewater treatment program



Fail-Safe Operation

The Quattra 50 UV System is equipped with a control panel that has an integrated UV Monitor to monitor the UV light intensity in real time. A solenoid valve can be driven by the monitor to shut off the flow of water if an inadequate UV power is detected.

This industrial water purification system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.

Specifications may be subject to change



SPECIFICATIONS



WYCKOMAR Quattra 90 UV System

Clear Water Rated Flow:	350 litres per minute (93 GPM) 21.000 litres/hour, 504,000 litres/day (5580 gallons/hour, 133,000 gallons/day)
Initial UV Dose at Rated Flow:	40 mJ/cm ² (40,000 uwsec/cm ²) @ 95% T
Electrical:	110-130V / 50-60 Hz 220-240V/ 50-60 Hz
Number of Lamps:	4 (at 86 Watts each)
Size and Weight:	50 x 8 x 11 in., 286 lbs / 130 kg
Maximum Operating Temp:	40°C (104°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	1 1/2" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L available)
Control Panel:	Integrated UV-Monitor
Additional Features (Optional):	Solenoid Valve, Electronic Deposit Control

The Quattra 90 UV System is a small footprint, high dose disinfection sterilizer unit for the treatment of effluent wastewater. It is equipped with a pneumatic air-drive wiper system (on-site air required) for low-maintenance operation and is very well suited for use aboard ship and in other applications where space is at a premium.

The Quattra 50 UV is designed to significantly reduce bacterial load in effluent wastewater and is an integral part of a full wastewater treatment program



Fail-Safe Operation

The Quattra 90 UV System is equipped with a control panel that has an integrated UV Monitor to monitor the UV light intensity in real time. A solenoid valve can be driven by the monitor to shut off the flow of water if an inadequate UV power is detected.

This industrial water purification system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.



Specifications may be subject to change



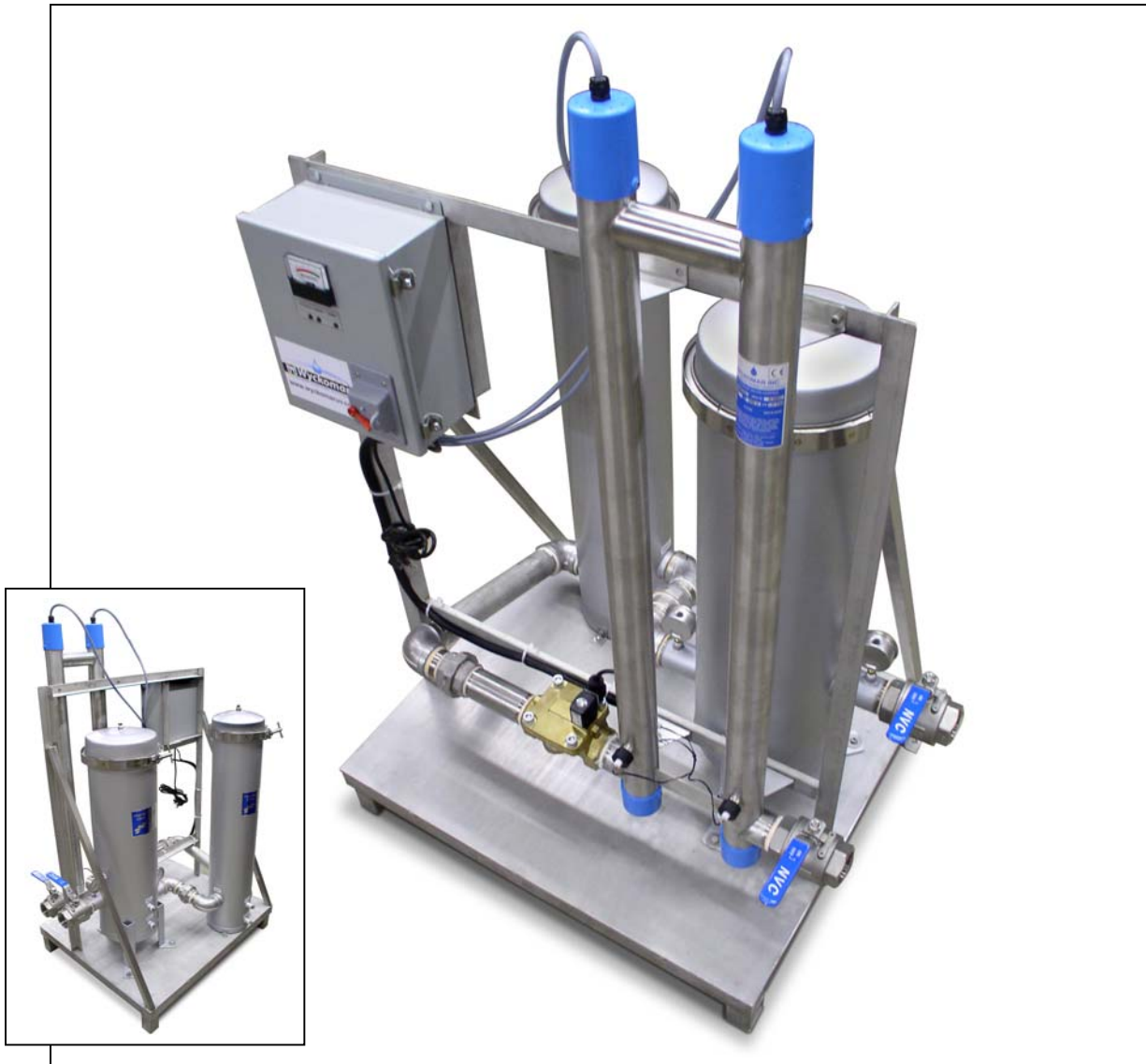
Manufactured in Canada by **Wyckomar Inc.** 111 Malcolm Road, Guelph Ontario Canada N1K 1A8
Phone 1-800-419-5162 Fax 519-763-6580 sales@wyckomaruv.com

Ultra Violet Disinfection in Customized Commercial and Industrial Water Treatment Systems

The following pages feature some of the standard and customized systems available for a wide array of applications all over the world. These examples of commercial water treatment systems show how different applications are treated, and how variations in the source water make different system designs necessary.

No two applications are the same, many parameters have to be taken into consideration with today's water treatment challenges. Systems are planned and designed to meet your application requirements. The production is done in a timely manner and subject to our quality assurance procedures.





50 GPM Skid Mounted Water Purification System

Dual Filtration for Sediment and Taste/Odour
Fail-Safe Operation with UV Monitor & Solenoid Valve



SPECIFICATIONS



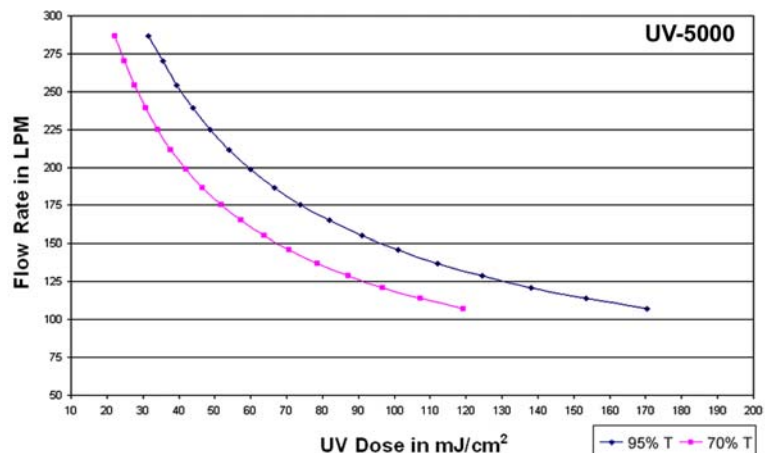
WYCKOMAR 50 GPM Skid Mount

Rated Flow:	189 litres per minute (50 GPM) 11340 litres/hour, 272,160 litres/day (3000 gallons/hour, 72000 gallons/ day)
Initial UV Dose at Rated Flow:	61 mJ/cm ² (61,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Approx. Power Usage:	220 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	2" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L available)
Filtration (in SS Housings):	5 Micron Sediment Filter 5 Micron Carbon Filter
Additional Features (Optional):	UV-Monitor, Solenoid Valve

This All-in-One Water Treatment System, installed at the point of entry, is ideal for multi-residential, commercial and industrial operations, such as campgrounds, large farms or bottling plants, where the drinking water is supplied from a well. It will purify the water of most contaminants found in groundwater, especially sediments, low to normal levels of iron and manganese and pesticides as well as taste and odor, including sulphur smell. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Dose Chart



Fail-Safe Operation with UV-Monitor

The monitor is a safety device that monitors the UV systems' effectiveness in real time and displays the UV intensity on the meter face. The monitor will sound an alarm and trigger a solenoid valve to shut off the water flow in case the UV lamp burns out or the dose is inadequate for proper disinfection.

This skid mounted system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.

Specifications may be subject to change





Skid Mounted Water Treatment System for General Applications – 50 GPM

Multiple Levels Of Filtration Including
Sediment / Taste & Odour / VOC's
UV Disinfection and Fail-Safe Operation With Solenoid Valve
and Built In Alarm System.

Electronic De-Scaling System Optional
Simple To Install and Operate Anywhere



SPECIFICATIONS



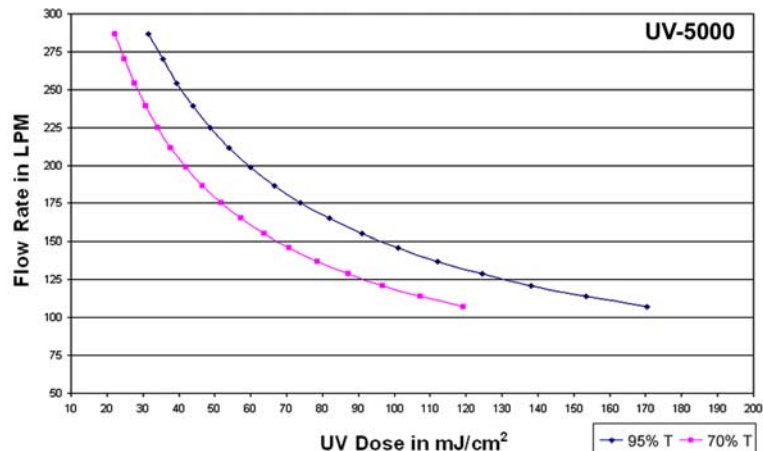
WYCKOMAR 50 GPM Skid Mount II

Rated Flow:	189 litres per minute (50 GPM) 11340 litres/hour, 272,160 litres/day (3000 gallons/hour, 72000 gallons/ day)
Initial UV Dose at Rated Flow:	61 mJ/cm ² (61,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Approx. Power Usage:	220 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	2" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L available)
Filtration (in SS Housings):	5 Micron and 1 Micron Sediment Filter 5 Micron Carbon Block Filter
Additional Features (Optional):	UV-Monitor with Solenoid Valve Electronic De-Scaling System

This All-in-One Water Treatment System, installed at the point of entry, is ideal for general multi-residential, commercial and industrial applications, such as campgrounds, large farms or bottling plants, where the drinking water is drawn from a well. It will purify the water of most contaminants found in groundwater, especially sediments, low to normal levels of iron and manganese and pesticides as well as taste and odor, including sulphur smell. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Dose Chart



Fail-Safe Operation with UV-Monitor

The (optional) monitor is a safety device that monitors the UV systems' effectiveness in real time and displays the UV intensity on the meter face. The monitor will sound an alarm and trigger a solenoid valve to shut off the water flow in case the UV lamp burns out or the dose is inadequate for proper disinfection.

This skid mounted system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.

Specifications may be subject to change





100 GPM Rack Mounted Water Purification System

Economical Chemical Free UV Disinfection
at High Volume



SPECIFICATIONS

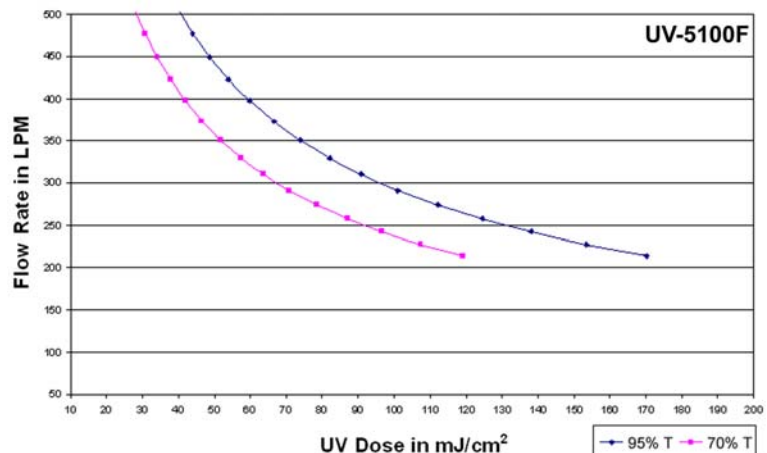


WYCKOMAR SYS5100F Rack Mount

Rated Flow:	378 litres per minute (100 GPM) 22710 litres/hour, 545,040 litres/day (6000 gallons/hour, 144000 gallons/day)
Initial UV Dose at Rated Flow:	61 mJ/cm ² (61,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz Includes Surge Protector Power Pack 440 W
Approx. Power Usage:	440 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	3" MNPT In/Out (Flanges Optional)
Chamber Material:	304L Stainless Steel (316L available)
Additional Features (Optional):	Sanitary Fittings UV-Monitor, Solenoid Valve

This All-in-One Water Treatment System, installed at the point of entry, is ideal for industrial and agricultural operations, such as dairy farms or bottling plants, where high flow rates are needed. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% or better (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).

Dose Chart



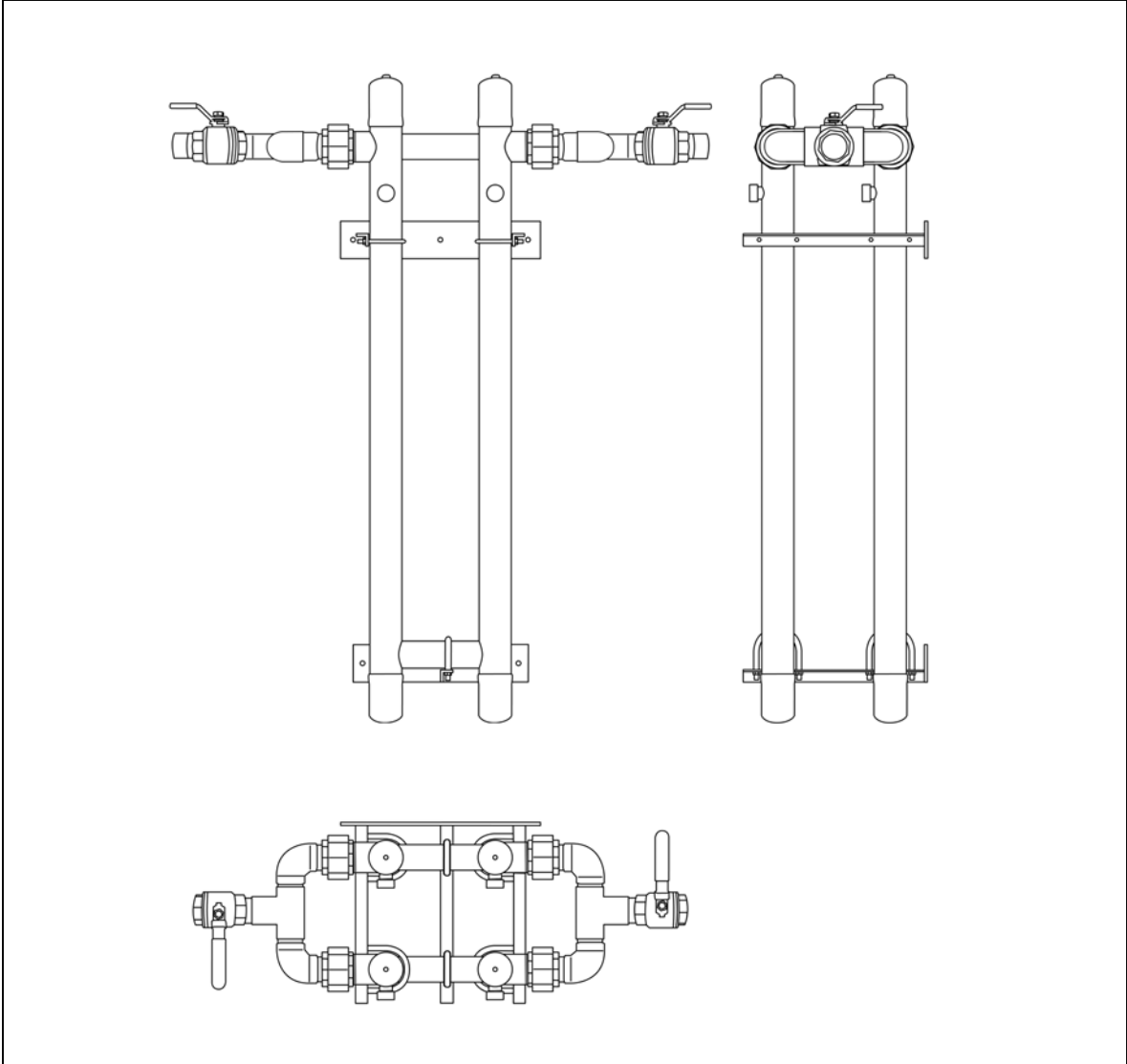
Various Pre-Filtration Options

This powerful, high-volume sterilizer can be combined with different pre-filtration solutions, such as multi-cartridge filtration in stainless steel filter housings, or high-volume filtration in Polypropylene Jumbo housing.

This rack mounted system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.



Specifications may be subject to change



100 GPM Wall Mounted Water Purification System

Economical Chemical Free UV Disinfection
at High Volume



SPECIFICATIONS

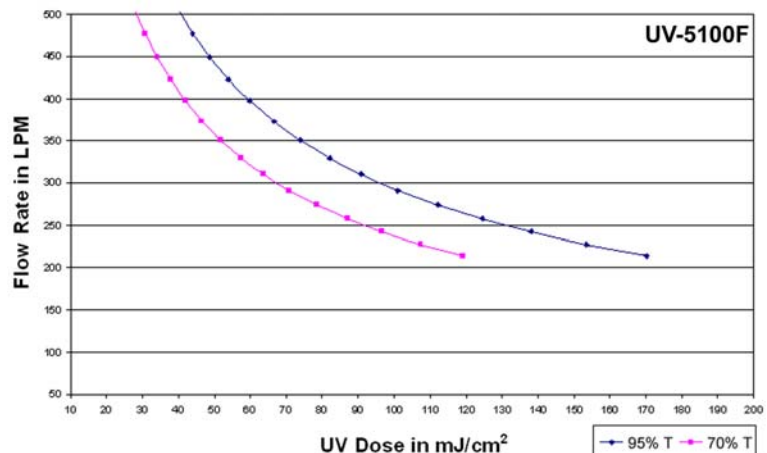
WYCKOMAR SYS5100W Wall Mount

Rated Flow:	378 litres per minute (100 GPM) 22710 litres/hour, 545,040 litres/day (6000 gallons/hour, 144000 gallons/ day)
Initial UV Dose at Rated Flow:	61 mJ/cm ² (61,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Approx. Power Usage:	440 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	2" NPT In/Out (Flanges Optional) Stainless Steel Shutoff Valves
Chamber Material:	304L Stainless Steel (316L available)
Additional Features (Optional):	Sanitary Fittings UV-Monitor, Solenoid Valve

This All-in-One Water Treatment System, installed at the point of entry, is ideal for industrial and agricultural operations, such as dairy farms or bottling plants, where high flow rates are needed. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% or better (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Dose Chart



Various Pre-Filtration Options

This powerful, high-volume sterilizer can be combined with different pre-filtration solutions, such as multi-cartridge filtration in stainless steel filter housings, or high-volume filtration in Polypropylene Jumbo housing.

This wall mounted system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.

Specifications may be subject to change





100 GPM Skid Mounted Water Purification System

Manual Valves and Dual Filtration Configuration
Fail-Safe Operation with UV Monitor and Solenoid Valve



SPECIFICATIONS



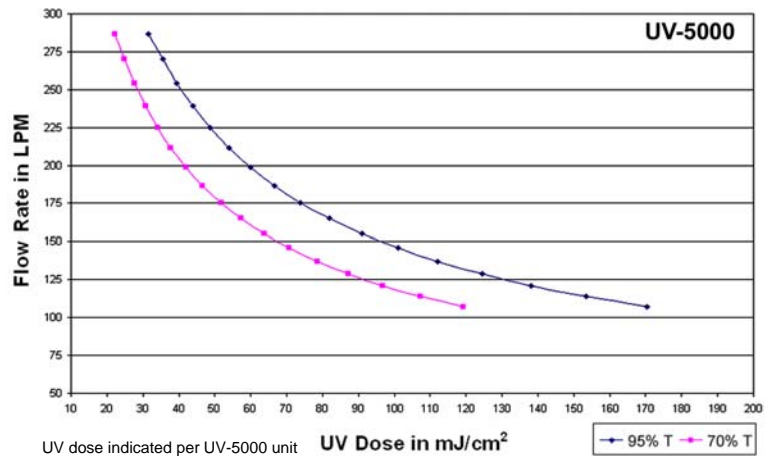
WYCKOMAR 100 GPM Skid Mount

Rated Flow:	378 litres per minute (100 GPM) 22,680 litres/hour, 544,320 litres/day (6000 gallons/hour, 144,000 g/ day)
Initial UV Dose at Rated Flow:	46 mJ/cm ² (46,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Approx. Power Usage:	460 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	2" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L available)
Filtration (in SS Housings):	5 Micron Sediment Filter 5 Micron Carbon Filter
Additional Features (Optional):	UV-Monitor, Solenoid Valve

This All-in-One Water Treatment System, installed at the point of entry, is ideal for commercial and industrial operations where the drinking water is supplied by a well. The system consists of 2 units that are manifolded, for a high flow rate. It will purify the water of most contaminants found in groundwater, especially sediments, low to normal levels of iron and manganese and pesticides as well as taste and odor, including sulphur smell. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Dose Chart



Fail-Safe Operation with UV-Monitor

The monitor is a safety device that monitors the UV systems' effectiveness in real time and displays the UV intensity on the meter face. The monitor will sound an alarm in case the UV lamp burns out or the dose is inadequate for proper disinfection. Additionally, it provides manual shut off valves.

This skid mounted system offers very efficient water treatment at a low cost per unit volume. It has a small footprint, is designed for ease of installation and fully tested prior to shipment.

Specifications may be subject to change





High-Volume Water Treatment System

Multiple Levels of Sediment Filtration to 1 Micron

UV Disinfection

Easy Change Filter Cartridges

Compact Foot Print - Various Flow Rates Available

Shown 250 GPM (~ 1000 LPM) Model SM5007-BBB250



SPECIFICATIONS

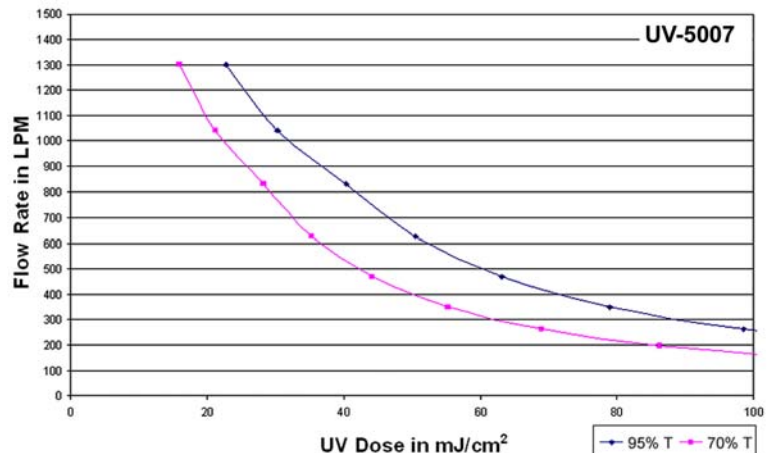


WYCKOMAR High Volume Skid Mount

Rated Flow:	946 litres per minute (250 GPM) 56,760 litres/hour, 1,36 mio litres/day (15,000 gallons/hour, 360,000 g/ day)
Initial UV Dose at Rated Flow:	35mJ/cm ² (35,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Approx. Power Usage:	800 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	3" Flange In/Out
Chamber Material:	304L Stainless Steel
Filtration (in BigBubba Housings):	20 and 1 Micron Sediment Filter Custom Filter Configurations Available
Additional Features (Optional):	UV-Monitor

This All-in-One Water Treatment System, installed at the point of entry, is ideal for commercial and industrial operations where a high volume output is required, e.g. for process water disinfection. The system is based on a UV-5007 sterilizer and offers multiple levels of sediment filtration down to 1 micron, using high volume, non-metallic filter housings that make the change of cartridges very easy. It will purify the water of most contaminants found in water from municipal sources. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others). The design of the system allows manifolding of multiple units and individual filter configuration for many different applications up to flow rate requirements of 1000 LPM.

Dose Chart



Fail-Safe Operation with UV-Monitor

The monitor is a safety device that monitors the UV systems' effectiveness in real time and displays the UV intensity on the meter face. The monitor will sound an alarm in case the UV lamp burns out or the dose is inadequate for proper disinfection. Additionally, it provides manual shut off valves.

This skid mounted system offers very efficient water treatment at a low cost per unit volume. It has a small footprint, is designed for ease of installation and fully tested prior to shipment.



Specifications may be subject to change



Transportable 250 GPM (~1000 LPM)
Water Treatment System

Multiple Filtration Levels to 1 Micron
UV Disinfection

Chlorine Residual For Downstream Protection
Turbidity - ORP - Real Time UV Monitoring Built In
Pressure Gauges - Test Ports - Alarm Functions Built In



SPECIFICATIONS



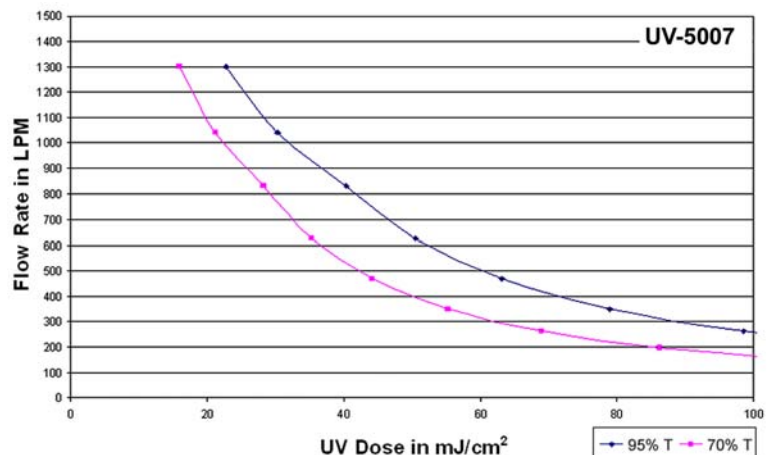
WYCKOMAR 250 GPM Skid Mount

Rated Flow:	946 litres per minute (250 GPM) 56,760 litres/hour, 1,36 mio litres/day (15,000 gallons/hour, 360,000 g/ day)
Initial UV Dose at Rated Flow:	35mJ/cm ² (35,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Approx. Power Usage:	700 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	3" Flange In/Out
Chamber Material:	304L Stainless Steel
Filtration (in SS Housings):	50, 20, 1A Micron Sediment Filter Custom Filter Configurations Available
Additional Features (Optional):	Real Time Monitoring of UV, TDS, ORP Pressure Gauges, Test Ports, Solenoid Valve

This All-in-One Water Treatment System, installed at the point of entry, is ideal for commercial and industrial operations where a high volume output is required. The system offers multiple levels of sediment and carbon filtration down to 1 micron, using high volume, stainless steel filter housings and is ideal for the treatment of ground or surface water. It will purify the source water of most harmful microorganisms such as viruses, bacteria and protozoa with a powerful UV disinfection dose that will inactivate pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others). The water is enriched with chlorine in its last stage for downstream protection.

This skid mounted system offers very efficient water treatment and failsafe operation. It is transportable, designed for ease of installation and fully tested prior to shipment.

Dose Chart



Fail-Safe Operation with UV-Monitor

The monitor is a safety device that monitors the UV systems' effectiveness in real time and displays the UV intensity. Turbidity and ORP levels may also be monitored based on configuration chosen. The monitor will sound an alarm and trigger a solenoid shut-off valve in case the UV lamp burns out or the dose is inadequate for proper disinfection. Pressure gauges on the filter housings ensure easy monitoring of the filter status.



Specifications may be subject to change



Cabinet Mounted Water Treatment System

Ozone
Backwashable Filtration
UV Disinfection
Final Polish Filtration
To Sub-Micron Level

Various Configurations
and Flow Rates Available



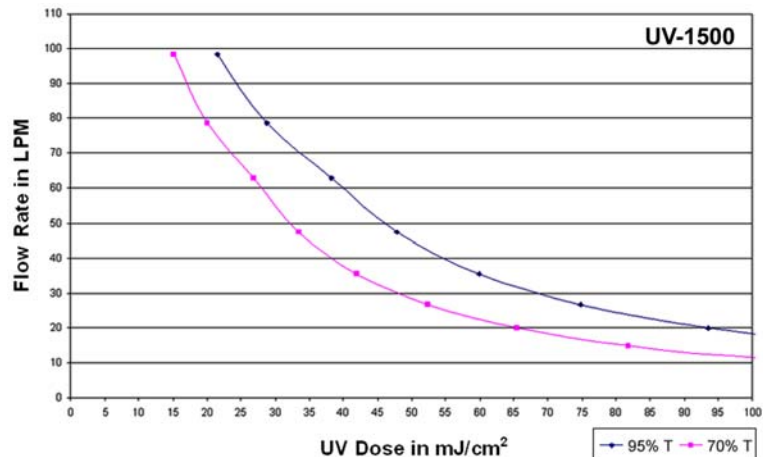
SPECIFICATIONS

WYCKOMAR Cabinet Mount Water Treatment Combines Iron Removal with UV Disinfection and Multi-Level Filtration in a Secure Cabinet

Rated Flow:	38 litres per minute (10 GPM) 2280 litres/hour, 54,720 litres/day (600 gallons/hour, 14,400 g/ day)
Initial UV Dose at Rated Flow:	55mJ/cm ² (55,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	1" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L available)
Filtration:	Backwashable Carbon Filter (2 cf of media)
Ozone Injection:	Air Dryer, Ozone Generator, Contact Tank, Venturi Injector
Polish Filtration:	20 and 5 Micron Sediment, 10 M Carbon
Optional:	On Board Pump

This portable All-in-One Water Treatment System, installed at the point of entry, is designed for the treatment of well water to a potable purity level. It combines ozone injection technology with efficient high-volume carbon filtration, optimized especially for the removal of higher than normal levels of iron and manganese. It is ideal for commercial, industrial and outdoor applications. The integrated UV-1500 sterilizer kills pathogens (harmful microorganisms such as viruses, bacteria and protozoa) with a powerful UV disinfection dose at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others). The system includes manual shut-off valves and an optional glycol flushing tank for trouble-free stand-by mode under freezing outdoor conditions.

Dose Chart



Water Treatment in Secure Cabinet

This cabinet mounted system offers very efficient water treatment. It can easily be upgraded for higher flow rates. The lockable cabinet safeguards the equipment against tampering and manipulation, for peace of mind when used in critical environments.



Specifications may be subject to change



Skid Mounted Hard Water Treatment System

Water Softening – Iron Removal – UV Disinfection

Simple To Install and Operate Anywhere – Custom Systems Available

Various Flow Rates Available



SPECIFICATIONS



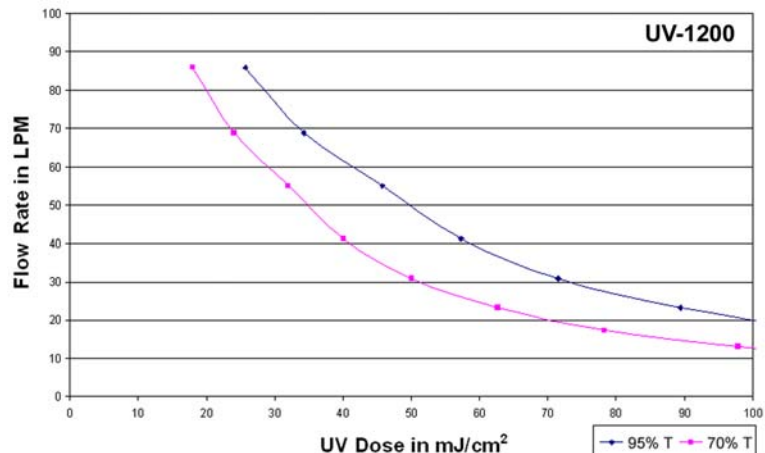
WYCKOMAR Hard Water Treatment System Softening – Iron Removal – UV-Disinfection

Rated Flow:	38 litres per minute (10 GPM) 22800 litres/hour, 54,720 litres/day (600 gallons/hour, 14,400 g/ day)
Initial UV Dose at Rated Flow:	54mJ/cm ² (54,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz 220-240V/ 50-60 Hz
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	1" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L available)
Filtration:	Backwashable Birm Filter (2 c/f of media) Includes Air Injection, Off Gas Valve
Water Softener:	70,000 Grain
Polish Filtration:	5 Micron Sediment

This portable All-in-One Water Treatment System, installed at the point of entry, is designed for the treatment of well water to a high purity level. It is ideal for commercial and industrial applications in hard water regions. The system combines high volume air birm filtration and water softening for removal of high iron and manganese levels. The integrated UV-1200 sterilizer kills pathogens (harmful microorganisms such as viruses, bacteria and protozoa) with a powerful UV disinfection dose at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others). The system includes manual shut-off valves.



Dose Chart



Treat Multiple Water Quality Issues With One System

The system as pictured is designed for a flow rate of 12 GPM, but can easily be upgraded for higher flow requirements.

This skid mounted system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.

Specifications may be subject to change





**Water Purification Systems For Use In Hazardous Areas
And Extreme Environments**

Class I Division II Certified

Heat Tracing Available For Use In Sub-Zero Environments

Multiple Filtration Levels to 1 Micron Plus UV Disinfection

Various Flow Rates Available – Custom Systems Available



SPECIFICATIONS



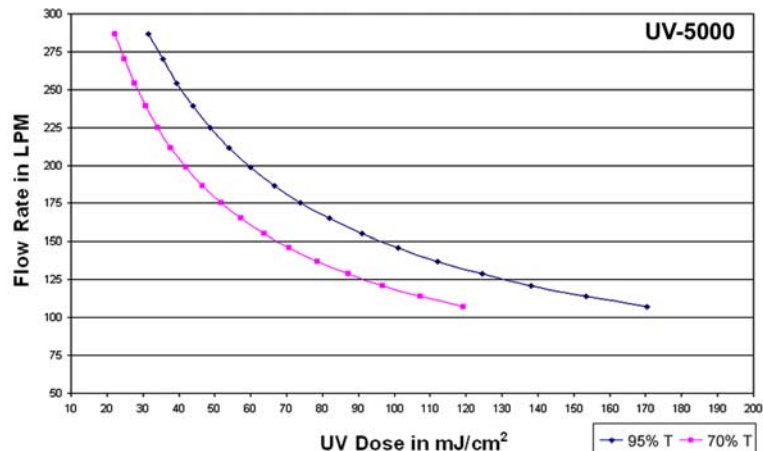
WYCKOMAR 60 GPM Class I Division II for use in Hazardous Areas - Skid Mount

Rated Flow:	226 litres per minute (60 GPM) 13560 litres/hour, 325440 litres/day (3600 gallons/hour, 86400 gallons/ day)
Initial UV Dose at Rated Flow:	25 mJ/cm ² (25,000 uwsec/cm ²) @ 95% T
Electrical:	100-130V / 50-60 Hz / 192 VA 220-240V/ 50-60 Hz / 154 VA
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	125 psi – 8.6 bar (tested to 500 psi)
Plumbing:	3" Flange In/Out
Chamber Material:	304L Stainless Steel (316L available)
Filtration (in SS Housings):	Sediment 50, 20 and 1 Micron Absolute Carbon Block 5 Micron
Additional Features:	CIDII Rated Enclosure

This All-in-One Water Treatment System, installed at the point of entry, is ideal for heavy-duty industrial applications in extreme environments. The enclosure is Class I Division II Certified explosion-proof. The system will purify the source water (drawn from a well or a lake) of most contaminants such as sediments, heavy metals and pesticides with filtration in 3 stages down to 1 micron. Carbon filtration reduces taste and odor, including sulphur smell. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Dose Chart



Hazardous Areas Are No Problem

This Skid Mounted system offers very efficient water treatment for use extreme environments at a low cost per unit volume. The system is designed for ease of installation and is fully tested and certified prior to shipment.



Specifications may be subject to change



Solar-Powered UV Drinking Water Purification System

Off-Grid Water Treatment for Use Anywhere Mounted on Cart

Pump, Dual Filter Set, UV Disinfection
12 Volt Power Pack, 55 Watt Solar Panel



SPECIFICATIONS



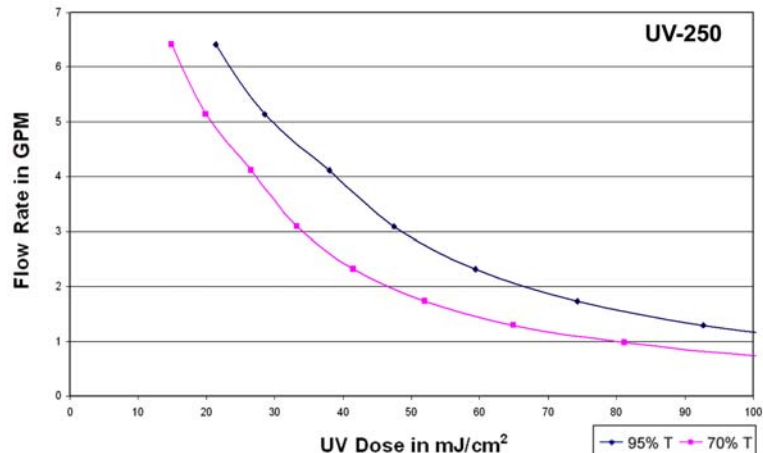
WYCKOMAR Solar Powered UV-250

Rated Flow:	16 litres per minute (4 GPM) 960 litres/hour, 23040 litres/day (240 gallons/hour, 5760 gallons/ day)
Initial UV Dose at Rated Flow:	46mJ/cm ² (46,000 uwsec/cm ²) @ 95% T
Electrical:	12 Volt Battery Power Pack 55 W Solar Panel
Approx. Power Usage:	23.4 W
Maximum Operating Temp:	37°C (98.6°F)
Maximum Operating Pressure:	45 psi – 3 bar
Plumbing:	3/8" Outlet (Compression Fitting)
UV Chamber Material:	304L Stainless Steel (316L available)
Filtration:	5 Micron 10" Sediment Filter 5 Micron 10" Carbon Block Filter
Approx. Size:	L 31" x W 27" x H 49"
Approx. Weight:	200 lbs

The Solar Powered UV-250 System combines high quality pre-filtration with our proven ultraviolet purification technology to produce a complete water quality system for use in "off-grid" applications, where no power outlet is available. The filter system removes sediment, rust, dirt, taste and odours that may be present in the source water, and can easily be customized for the removal of other contaminants. The integrated UV-250 sterilizer kills pathogens (harmful microorganisms such as viruses, bacteria and protozoa) with a powerful UV disinfection dose at a kill rate of >99.9% (*Giardia*, *E.coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Dose Chart



Drinking Water Where it is Needed

This system collects sunlight to charge the on-board battery pack. It then uses the generated power to pump and process local source water to produce high-quality clean water safe for human consumption.

This cart mounted system offers very efficient water treatment at a low cost per unit volume. The system is fully tested prior to shipment and is designed for a quick set up right out of the box.

Specifications may be subject to change





4 GPM RO
Point-of-Entry



50 GPD Sea-Water RO



50 Gallons per day RO with UV
Point-of-Use

Reverse Osmosis Systems
Residential and Commercial Applications
Models with and without Booster Pump
High Quality TFC Membranes
Complete Systems for Residential and Commercial
Desalination Applications



5 Stage RO System

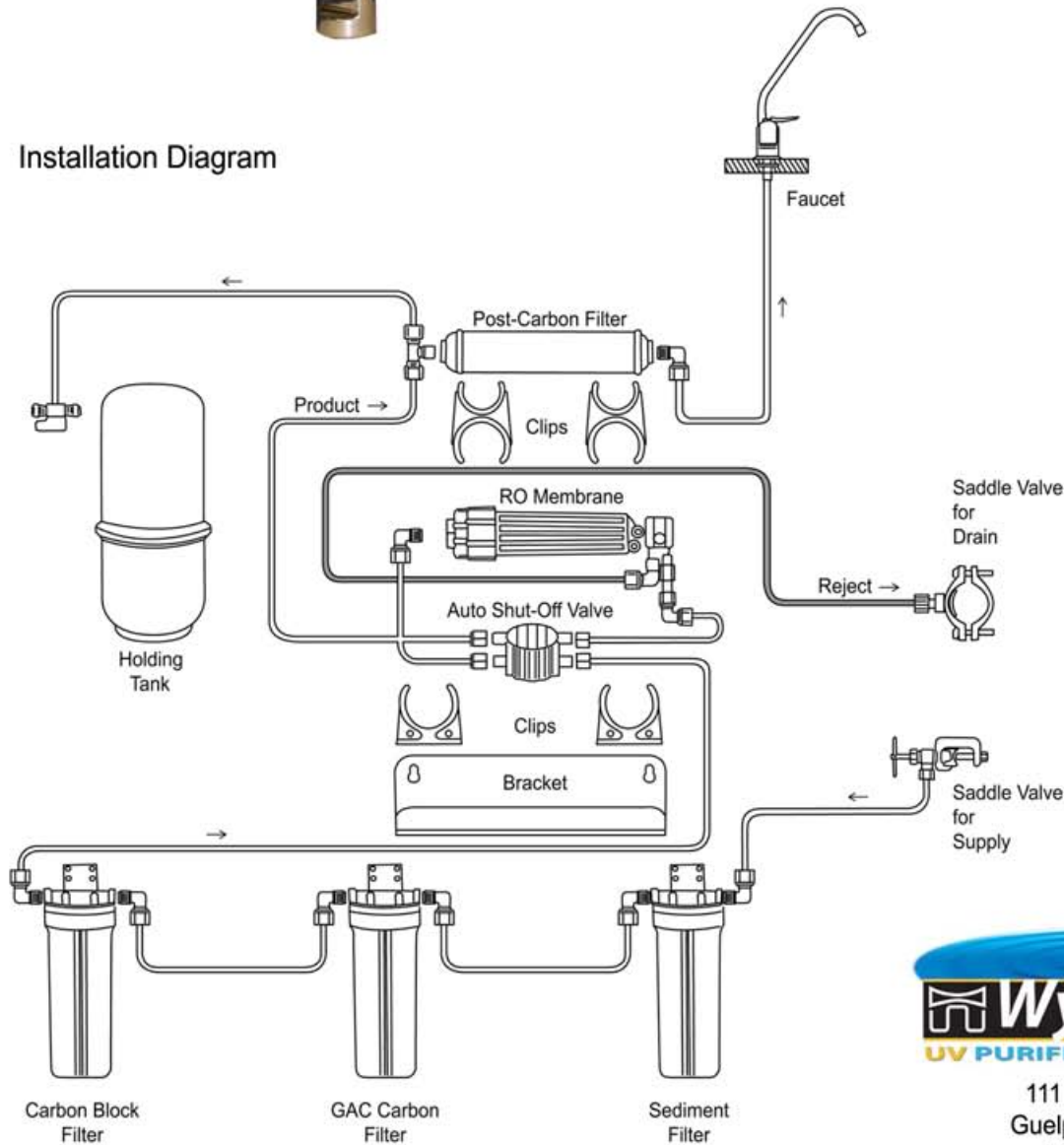


Specifications

Capacity 50 GPD
 Tank Capacity 4 gal.
 Recovery 20-25%
 Rejections 90% min
 Pre-Filter:
 - 5 M Sediment
 - GAC
 - Carbon Block

Membrane TFC
 TDS max 2000 ppm
 Pressure 40-100 psi
 Feed Water pH 3-11
 Temperature 40-80 F

Installation Diagram



This residential Reverse Osmosis System is installed at the point of use (e.g. under the sink) and produces up to 50 gallons of purified water per day. It removes substantial amounts of most inorganic chemicals (such as salts, minerals, metals) and most (but not all) organic chemicals. The high quality membrane rejects successfully salts, sugars, proteins, particles, dyes, heavy metals, chlorine and related by-products as well as other contaminants that have a molecular weight of greater than 150-250 daltons. Dissolved ions that carry a charge, such as salts, are more likely to be rejected than uncharged ions, such as organics.



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5 Stage RO System with UV Disinfection



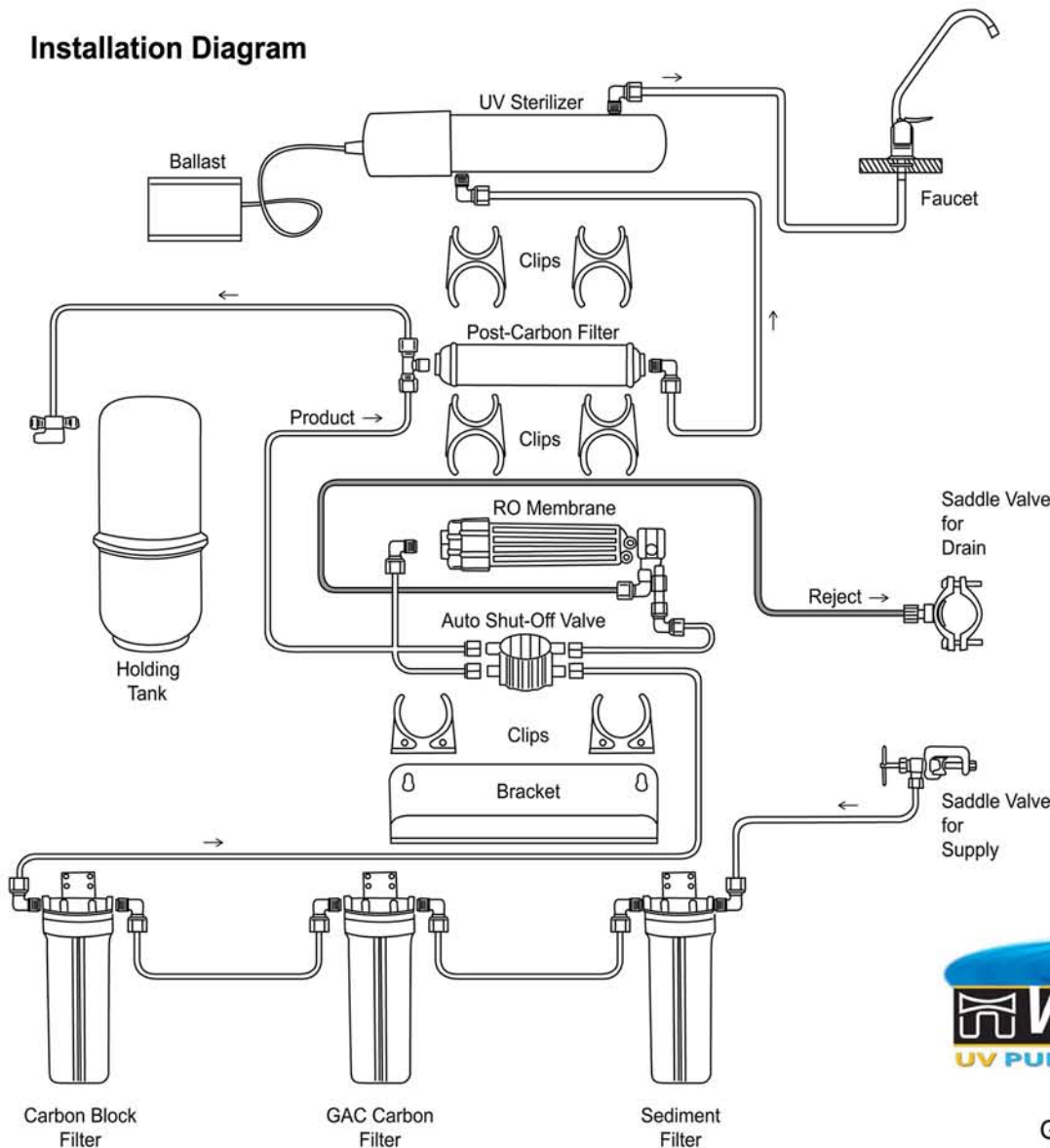
Specifications

Capacity 50 GPD
 Tank Capacity 4 gal.
 Recovery 20-25%
 Rejections 90% min
 Pre-Filter:
 - 5 M Sediment
 - GAC
 - Carbon Block

Membrane TFC
 TDS max 2000 ppm
 Pressure 40-100 psi
 Feed Water pH 3-11
 Temperature 40-80 F
 Electrical 130 V 60 Hz
 UV Chamber 304 SS

This residential Reverse Osmosis System is installed at the point of use (e.g. under the sink) and produces up to 50 gallons of purified water per day. It removes substantial amounts of most inorganic chemicals (such as salts, minerals, metals) and most (but not all) organic chemicals. The high quality membrane rejects successfully salts, sugars, proteins, particles, dyes, heavy metals, chlorine and related by-products as well as other contaminants that have a molecular weight of greater than 150-250 daltons. Dissolved ions that carry a charge, such as salts, are more likely to be rejected than uncharged ions, such as organics. Bacteria and viruses and other microorganisms are killed by a powerful UV disinfection dose that will inactivate the pathogens at 99.9% inactivation rate.

Installation Diagram



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Drinking Water from Sea Water



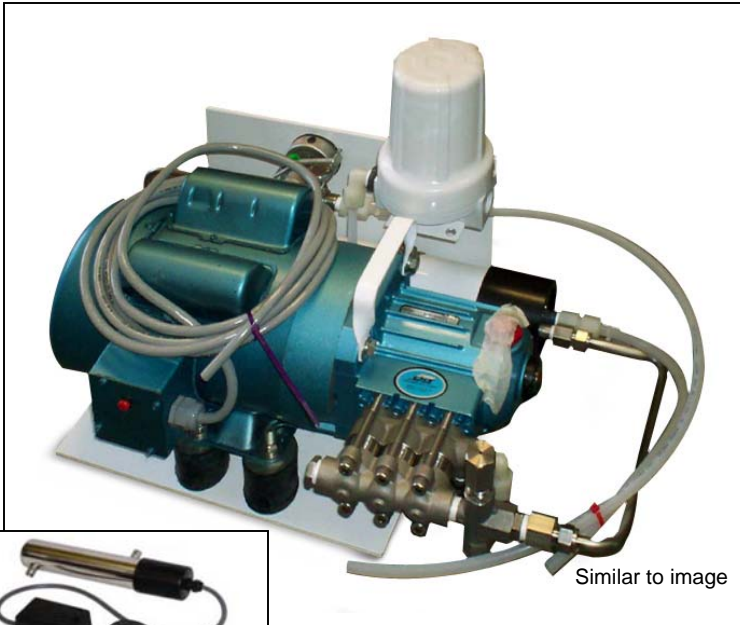
Sea Water RO Systems from Wyckomar

sales@wyckomaruv.com

www.wyckomaruv.com

Tel 519-822-1886

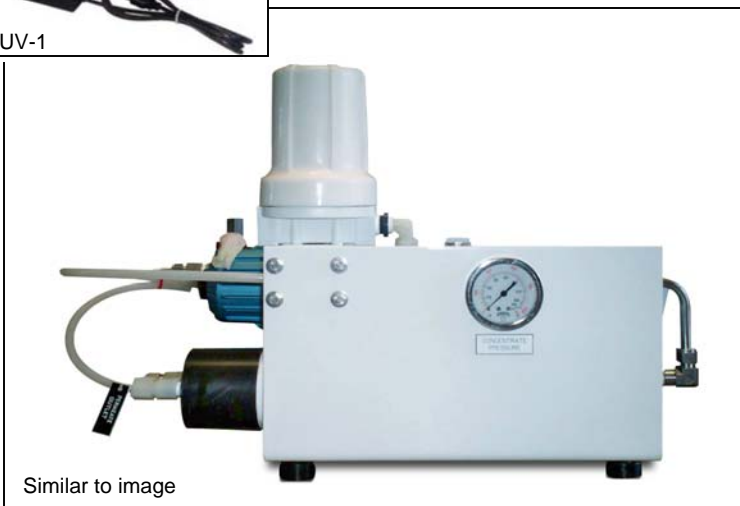
Fax 519-763-6580



Similar to image



UV-1



Similar to image

The Wyckomar SWRO-100 is ideal for use on board yachts and vessels of all types. Compact and dependable, this sea water desalination system is able to provide up to 100 GPD (400 LPD) of drinking water from sea water source.

This unit may be used stand alone or in combination with the Wyckomar UV-1 disinfection unit to provide an extra measure of protection by killing all potentially harmful bacterial and viral pathogens that may be present in the water.

Rugged and well constructed, the SWRO-100 will give many years of dependable service.

Specifications

- Output max. 100 GPD
- For Feed Water Containing up to 36,000 mg/L TDS (36,000 ppm) at 25 C, SDI < 3
- 316L Stainless Steel Pump
- 24 Volt DC Motor (1 HP), Running at 1800 RPM
- High Rejection Sea Water Membrane
- Flow Meter Installed on the Permeate Line
- 5 Micron Sediment Pre-Filter

Lead time varies with order volume

Volume discounts available

Some conditions may apply. O.A.C. – PO required

Contact us for info and pricing

Sea Water Desalination Systems

Commercial Applications

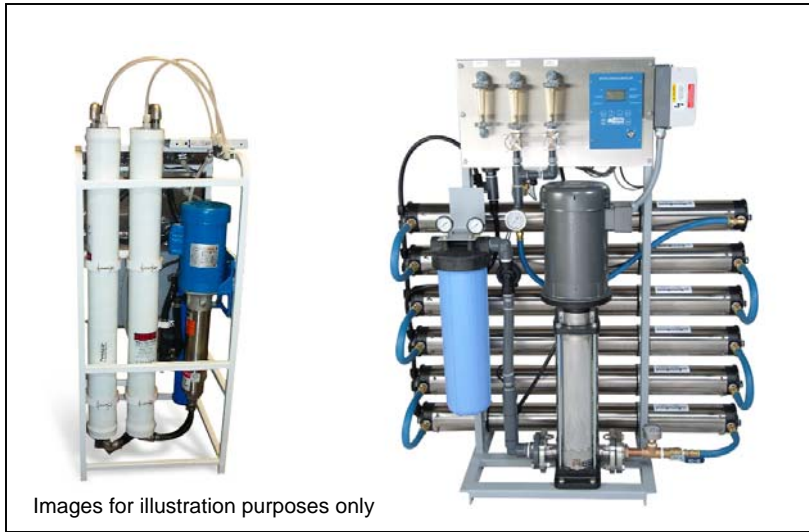


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Images for illustration purposes only

Sea Water Reverse Osmosis Systems are designed to produce potable permeate water from sea water of up to 36,000 ppm of TDS. Equipped with energy recovery systems, these are capable of energy efficiencies below 3.0 kWh/m³ (depending on model).

Design Assumptions

- Feed Water of <36,000 mg/L
- TDS at 25 C , SDI < 3, Turbidity < 1
- Negligible permeate backpressure
- Flux, Minimum Brine Flow, and Recovery in accordance with manufacturer's recommendations

Standard Features

High-Rejection Sea Water Membranes
316L Stainless Steel Valves,
Pressure Gauges
Automatic High and Low Feed Pressure Shut –Off
Automatic Feed Water Shut-Off Valve
5 micron Sediment Pre-Filter
Fibreglass Pressure Vessels
Pre-Filter pressure Gauges
Stainless Steel Frame

Optional Features

904L Stainless Steel High-Pressure Piping
200V-460V 60 Hz 3-phase motor
Permeate and Concentrate Flowmeters
904L Stainless Steel Centrifugal Pump
Automatic Permeate Flush
Energy Recovery System
Chemical Dosing System
Clean-in-Place System
TDS, pH, Temperature, Turbidity Meters
PLC Control
Special Colour
50 Hz Motor

Part #	Production GPD	Production m ³ /D	Recovery %	Number, Size of Elements	Motor (HP)	Approx. Dimensions (L x W x H) inches	Approx. Weight lbs
WYCK-SW-1	1,600	6	20	1 (4")	3	26x20x127	110
WYCK-SW-2	3,200	12	20	5 (4")	9.5	81x51x127	175
WYCK-SW-3	4,800	18	30	7 (4")	11	274x66x152	1000
WYCK-SW-4	6,400	24	35	10 (4")	11	274x66x152	1200
WYCK-SW-5	7,200	30	20	2 (8")	10.5	366x122x152	1500
WYCK-SW-10	14,400	50	20	4 (8")	12.5	366x122x152	1800
WYCK-SW-15	21,600	80	27	6 (8")	14.5	427x122x152	2200
WYCK-SW-20	28,800	110	33	8 (8")	19.5	549x122x152	2700
WYCK-SW-25	36,000	130	38	10 (8")	24	671x122x152	3200
WYCK-SW-30	43,200	170	36	12 (8")	34	549x122x152	3650
WYCK-SW-45	64,800	250	42	18 (8")	50	732x122x152	4300
WYCK-SW-60	86,400	330	40	24 (8")	60.5	732x152x152	4950
WYCK-SW-75	108,000	410	40	30 (8")	67.5	732x152x183	5650
WYCK-SW-90	129,600	490	42	36 (8")	77.5	732x183x183	6450
WYCK-SW-110	158,400	600	40	42 (8")	92.5	732x183x183	7250

Specifications are subject to change without notice

Lead times vary with model
Some conditions may apply. Purchase Order required

Please contact us for information and pricing



UV/RC-1

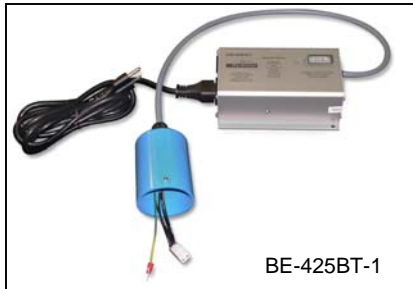
UV/MS-1



Hour Meter



BE-425W-U



BE-425BT-1



BE-800WL-1 (UV-3000)

Electronic Ballasts and Monitors

Power Supplies for Germicidal UV Lamps
 Real-Time Monitoring of UV Light Intensity
 Optional Outputs – Wet + Dry Contacts, 0-1 V, 4-20 mA



SPECIFICATIONS

Wyckomar Electronic Ballasts

Part #	Lamp Type	Power Consumption	Input Voltage	Lamp Current	Lamp/Power LED	Lamp Out Alarm	Solenoid Output	Volt Free Contacts	4-20mA Remote Output	Timer
BE-425W-U	RL-12/254T5 RL-23/436T5 RL-40/867T5	18 VA @ 120 V 23 VA @ 240 V 29 VA @ 120 V 35 VA @ 240 V 53 VA @ 120 V 66 VA @ 240 V	110-240 VAC 50-60 Hz	425 - 500 mA	Lamp LED	Yes	Opt.	Opt.	No	Opt. Hour Meter
BE-800WL-1	RL-44/436T5 RL-84/893T5 RL-100/1197T6 RL-110/1197T5	57 VA @ 120 V 70 VA @ 120 V 85 VA @ 120 V 102 VA @ 120 V	120 VAC 60 Hz	800 mA	Power LED Lamp LED	Yes	Yes	Opt.	No	Opt. Hour Meter
BE-800WL-2	RL-44/436T5 RL-84/893T5 RL-100/1197T6 RL-110/1197T5	72 VA @ 120 V 84 VA @ 120 V 89 VA @ 120 V 107 VA @ 120 V	230 VAC 50/60 Hz	800 mA	Power LED Lamp LED	Yes	Yes	Opt.	No	Opt. Hour Meter
BE-425BT-U	RL-23/436T5 RL-40/867T5	29 VA @ 120 V 35 VA @ 240 V 53 VA @ 120 V 66 VA @ 240 V	120/230 VAC 50-60 Hz	425 - 500 mA	Power LED	Yes	Opt.	Opt.	No	365 Days Count Down
BL28W-12V	RL-23/436T5	24 VA @ 12 V	12 V DC	425 mA	Yes	Yes	No	No	No	No

Wyckomar UV Monitoring Systems

Part #	System	Input Voltage	Power	Low UV-Dose Alarm	Display Type/ Display Value	Trip Point	Wet Contacts	Dry Contacts	4-20 mA Output	0-1 Volt Output	Overtemp Relay	UV Relay
UV/MS-1	UV-1	120 VAC 60 Hz	2.6 VA	Yes	Analog/	Set at 70 %	Yes	No	Opt.	No	No	No
UV/MS-2	UV-250 UV-700 UV-1200 UV-1500 UV-3000 UV-5000	230 VAC 50-60 Hz	2.3 VA		0-100% UVT		N/O switch w/ jumper to N/C					
UV/RC-1	Quattra-50 Quattra-90 UV-100 UV-5007	120 or 230 VAC 50/60 Hz	4 VA	Yes (also Temp Relay DPDT Dry)	Digital/ Irradiance Or 0-100% UVT	ad-just-able	Yes	Yes DPDT	Yes	Yes	Yes Dry ad-just-able	Yes Dry



Specifications may be subject to change

Manufactured in Canada by **Wyckomar Inc.** 111 Malcolm Road, Guelph Ontario Canada N1K 1A8
Phone 1-800-419-5162 Fax 519-763-6580 sales@wyckomaru.com



Residential/Commercial Filtration Systems

High Quality Plastic Filter Housings in Heavy Duty Construction

FDA Grade Polypropylene, Pressure Rated to 125 psi

Temperature Rated to 52° C, NSF 42 Certified

Filter Cartridges for Sediment, Iron, H₂S, Chlorine, Pesticides,

Taste, Odour and Colouration Reduction

Low Pressure Drop, Increased Surface Area



SPECIFICATIONS - Filter Housings

Plastic Filter Housings

Material Bowl and Cap:	Polypropylene
Material O-Ring:	EPDM
Max. Operating Temp:	52° C (125° F)
Min. Operating Temp:	4.4° C (40° F)
Max. Operating Pressure:	125 psi – 8.6 bar
Threads available:	¾", 1", 1 ½"
Pressure Relief Button:	Yes

These heavy-duty housings are made entirely of the highest quality FDA grade NSF listed polypropylene. The buttress thread design provides superior sealing and great security. Thick side walls with heavy-duty ribs provide extra strength. Available in SlimLine and BigBlue, in sizes of 10" and 20". NSF Standard 42 certified.

SPECIFICATIONS - Filter Cartridges

Carbon Block

Media:	Coconut shell
Max. Operating Temp:	52° C (125° F)
Min. Operating Temp:	10° C (50° F)
Max. Operating Pressure:	125 psi

Top-of-the-line filter cartridges for chlorine, taste, odour and sediment reduction. Long life, low pressure drop. 10 micron nominal rating. NSF Standard 42 certified. Available Sizes: 10", 20", 30", 40"

Granular Activated Carbon (GAC)

Media:	Coconut shell activated
Max. Operating Temp:	40° C (100° F)
Min. Operating Temp:	4° C (38° F)
Max. Operating Pressure:	125 psi

Low cost filter cartridges for taste and odour reduction. Containing activated carbon resin. For various flow rates.

Available Sizes: 10", 20"

Pleated Carbon NCP Series

Media:	Impregnated Polyester
Max. Operating Temp:	65° C (150° F)
Min. Operating Temp:	4.4° C (40° F)
Max. Operating Pressure:	40 PSID

This combination of a pleated polyester media and carbon filtration produces an outstanding filter cartridge with extended service life. 10 micron nominal rating. Available Sizes: 10", 20"

Pleated Sediment

Media:	Polypropylene/Polyester
Max. Operating Temp:	60° C (140° F)
Min. Operating Temp:	4.4° C (40° F)
Max. Operating Pressure:	40 PSID

Increased surface area due to pleated design, for longer life, less pressure drop and higher flow rates. Cartridges are washable and reusable. 0.5, 1, 5, 20 and 50 micron nominal rating. Available Sizes: 10", 20", 30", 40"

Poly Spun Sediment

Media:	Polypropylene (melt blown)
Max. Operating Temp:	60° C (140° F)
Min. Operating Temp:	4.4° C (40° F)
Max. Operating Pressure:	40 PSID

Low cost, high dirt holding capacity. This is the standard sediment filter for removal of dirt, rust and other sediments from city water. NSF standard 42 certified. Available Sizes: 10", 20", 30", 40"

Wyckomar offers a full line of filter cartridges for residential and light commercial applications. These media reduce sediments as well as taste, odour and colouration from the treated water.



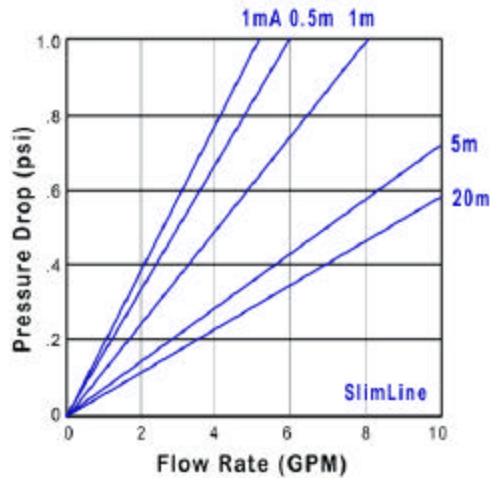
Specifications may be subject to change



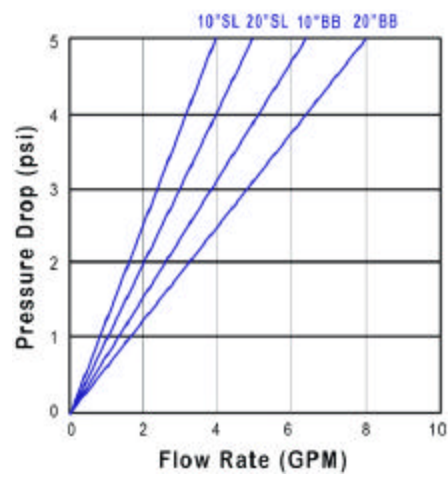
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PRESSURE DROP CHARTS - Filter Cartridges 10" and 20"

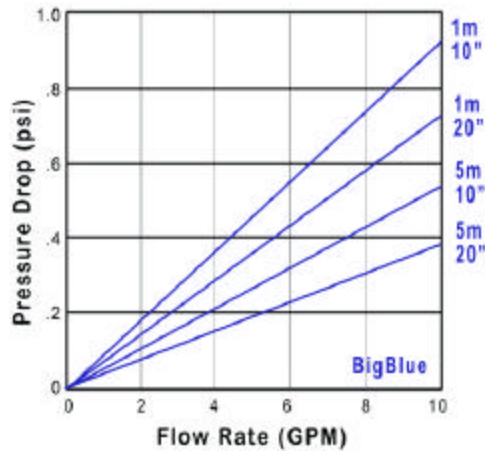
SEDIMENT PLEATED SlimLine



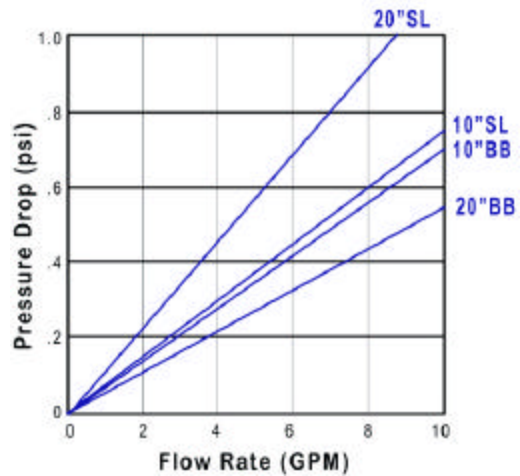
CARBON BLOCK



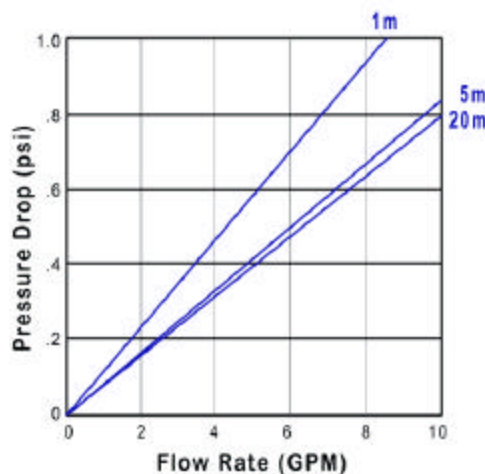
SEDIMENT PLEATED BigBlue



PLEATED CARBON



SEDIMENT POLY SPUN



Specifications may be subject to change



Self Cleaning Sediment Filter

Ideal for Lake Water Applications

A self-cleaning sediment filter (spin-down separator) at 15, 30, 60 or 104 micron will help to significantly reduce the number of sediment filters used to filter surface-water sources.

This unit has a built-in manual flush which is used to purge built-up sediments in the bottom of the filter. This type of filter will especially be appreciated by those who are using a large number of sediment filter cartridges to clean up their drinking water (typically when the feed water comes from a lake)



The Self-Cleaning Sediment Filter is available in 3/4" or 2" in/out PVC construction. Stainless steel filter screens, cleanable and reusable. Flow rates up to 50 GPM.

Simple installation. Easy to use.



Also available for high temperature applications

Mesh Sizes:

1000 = 15 Micron
500 = 30 Micron
140 = 60 Micron
60 = 104 Micron

This unit is an ideal companion to a cottage-sized UV disinfection system to provide clean and sterilized drinking water all year long.

Part Numbers:
14-WFS-15SC
13-SDF-3/4-1000F
Screen Insert:
13-1-5000F

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Commercial and Industrial Filtration Systems
High Throughput Treatment for Most Water Quality Problems
Backwashable Iron and Arsenic Removal
High Quality Water Softeners
Stainless Steel Commercial Quality Filter Housings
Non-Metallic Filter Housings for High Flow Rates



SPECIFICATIONS

Backwashable Air-Birm Iron Removal System

Air Injector:	Micronizer 1"
Contact Tank:	8" x 35" (larger tanks available)
Media Tank:	10" x 40" (larger tanks available)
Off-Gas Valve:	Braukmann
Backwash Valve:	Clack
Media:	1 cu.ft Birm
Additional Features:	Bypass and sweat kit included



Backwashable Arsenic Removal System

Air Injector:	Micronizer 1"
Mineral Tank / Flow Rate / Media:	10" x 54" / 3.75 GPM / 1.5 cu.ft 12" x 52" / 5 GPM / 2 cu.ft 14" x 65" / 7.5 GPM / 3 cu.ft
Media:	G2R (Adsorbs Arsenic III and IV)
Additional Features:	Electronic control valve with saturation alarm for failsafe operation



Clack Water Softener

Air Injector:	Micronizer 1"
Media Tank:	10" x 42" (other sizes available)
Brine Tank:	16" x 16" x 36" (other sizes available)
Valve:	Clack
Media:	Brine
Additional Features:	Bypass and tail kit included



Flow-Max Stainless Steel Jumbo Filter Housings

Material:	304L stainless steel (316L available)
Pressure Rating:	Up to 150 psi (10 bar)
Temperature:	Up to 250° F (121° C)
Gaskets and Seals:	Buna-N
Finish:	Poly-coat over stainless
Pressure Drop:	Initial Pressure drop < 1 psi
Cartridge Types:	Standard DOE cartridges



BigBubba Non-Metallic High Volume Filter Housings

Material:	Glass Reinforced PP
Pressure Rating:	Up to 125 psi (8.75 bar)
Temperature:	Up to 175° F (80° C)
Gaskets and Seals:	EPDM
Maximum Flow Rate:	150 GPM
Pressure Drop:	Initial Pressure drop < 5 psi
Cartridge Types:	Pleated (1A, 1, 5, 20, 50, 150 Micron)



Specifications may be subject to change



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