WATER AIR

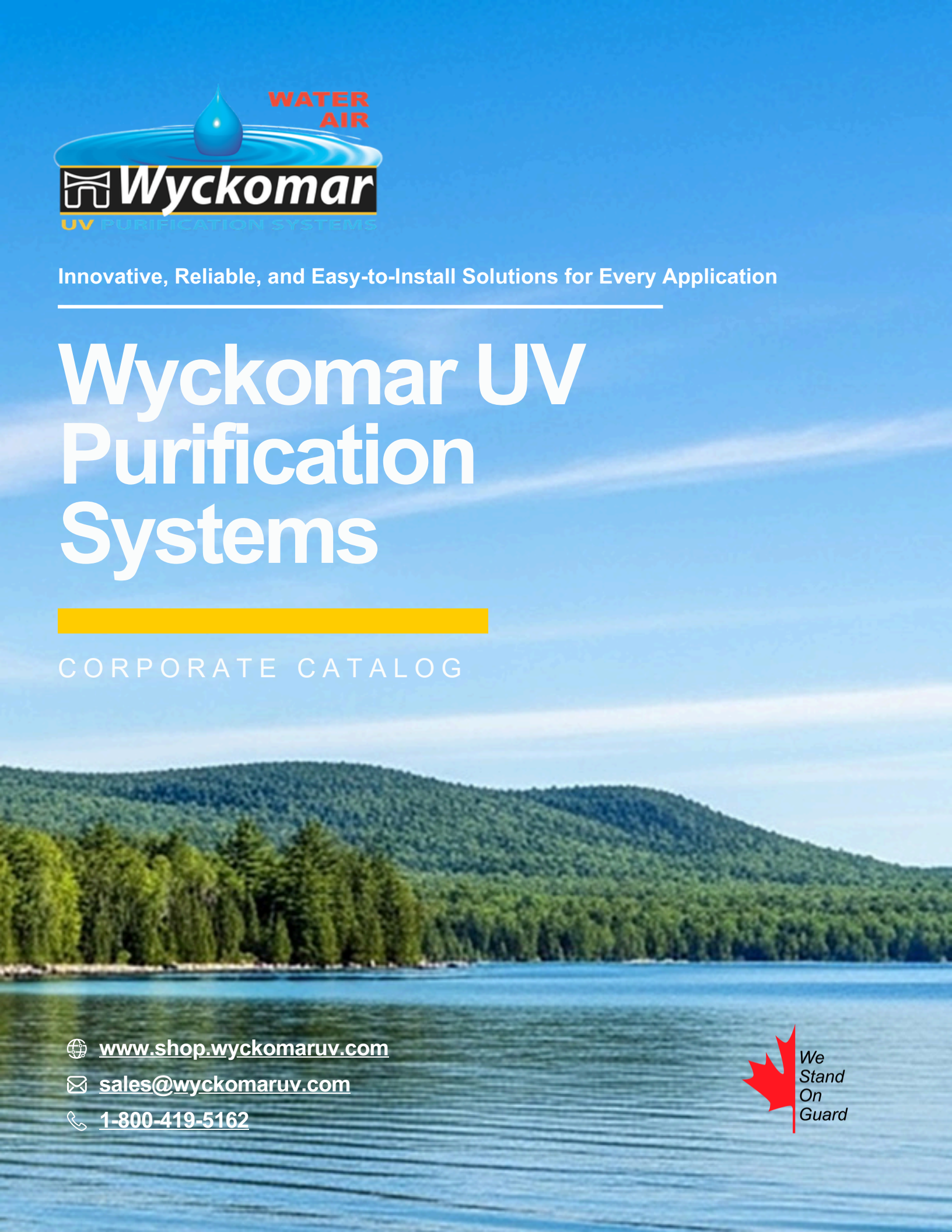
Wyckomar

UV PURIFICATION SYSTEMS

Innovative, Reliable, and Easy-to-Install Solutions for Every Application

Wyckomar UV Purification Systems

CORPORATE CATALOG



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We Stand On Guard

Errors and Omissions Excepted.
Although Wyckomar has attempted to ensure the accuracy of the content of this catalog, it is possible that this document may contain technical inaccuracies, typographical, or other errors. Technical specifications are subject to change without notice.

Content

About Us

Introduction to Wyckomar UV

Wyckomar Canada Inc. is a manufacturer and distributor of high-quality water treatment and water disinfection equipment headquartered in Ontario Canada. For over 45 years, we have served local and global markets in providing water treatment systems for all types of applications including residential and commercial, with a focus on providing custom commercial systems and solutions to industry.

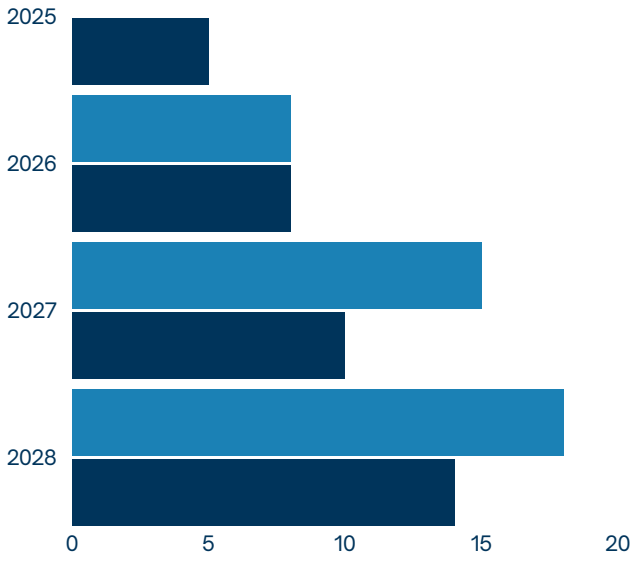
Quality, Innovation and Global Expertise

As the global market for water treatment and disinfection equipment continues to grow, Wyckomar is focused on providing superior quality and practical solutions for our diverse customer base. Our aim is to provide a frictionless customer experience to encourage continued growth in our business while engaging customers with innovative and effective products.

Our History

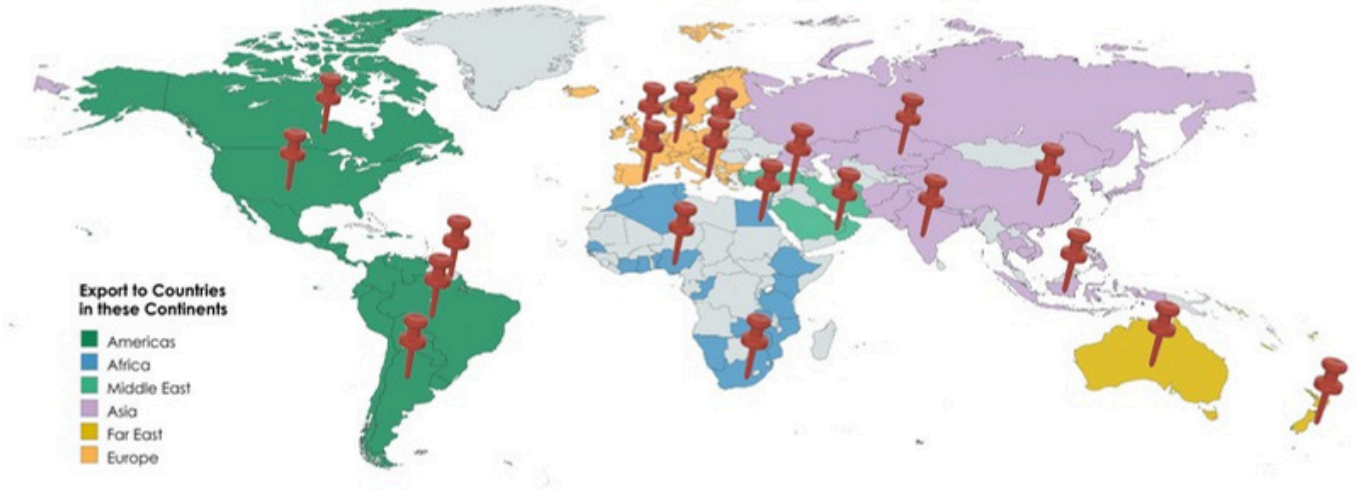
Wyckomar was founded in 1978 in response to a need for non-chemical technologies to produce safe, clean and pathogen-free drinking water. Over the decades, our company played a key role in the development of functional Ultra Violet (UV) water treatment systems and many of Wyckomar's original UV system designs are still in use today.

Global Reach



Our company has expanded through the decades to be able to offer our products to many export markets around the globe. Our experience with global logistics means we can provide our UV water treatment systems to almost any market.

Currently Wyckomar provides water treatment systems to many global markets allowing us the opportunity to serve consumers, business and industry worldwide.



Why Wyckomar?

Our Promise

The long experience in the UV disinfection industry is a testament to our ability to offer high-quality systems and components while also ensuring customer needs are satisfied over the long term.

Our Quality

High grade materials used in manufacturing, along with quality control and testing protocols, ensure that all Wyckomar products offer superior longevity and performance over time.

Our Mission

The systems and equipment we have designed over the years are specifically built for ease of installation and maintenance. Our goal is to provide our customers, dealers and distributors a long-term and hassle-free experience with the Wyckomar brand.
We have expert customer support available for all systems and equipment we provide.

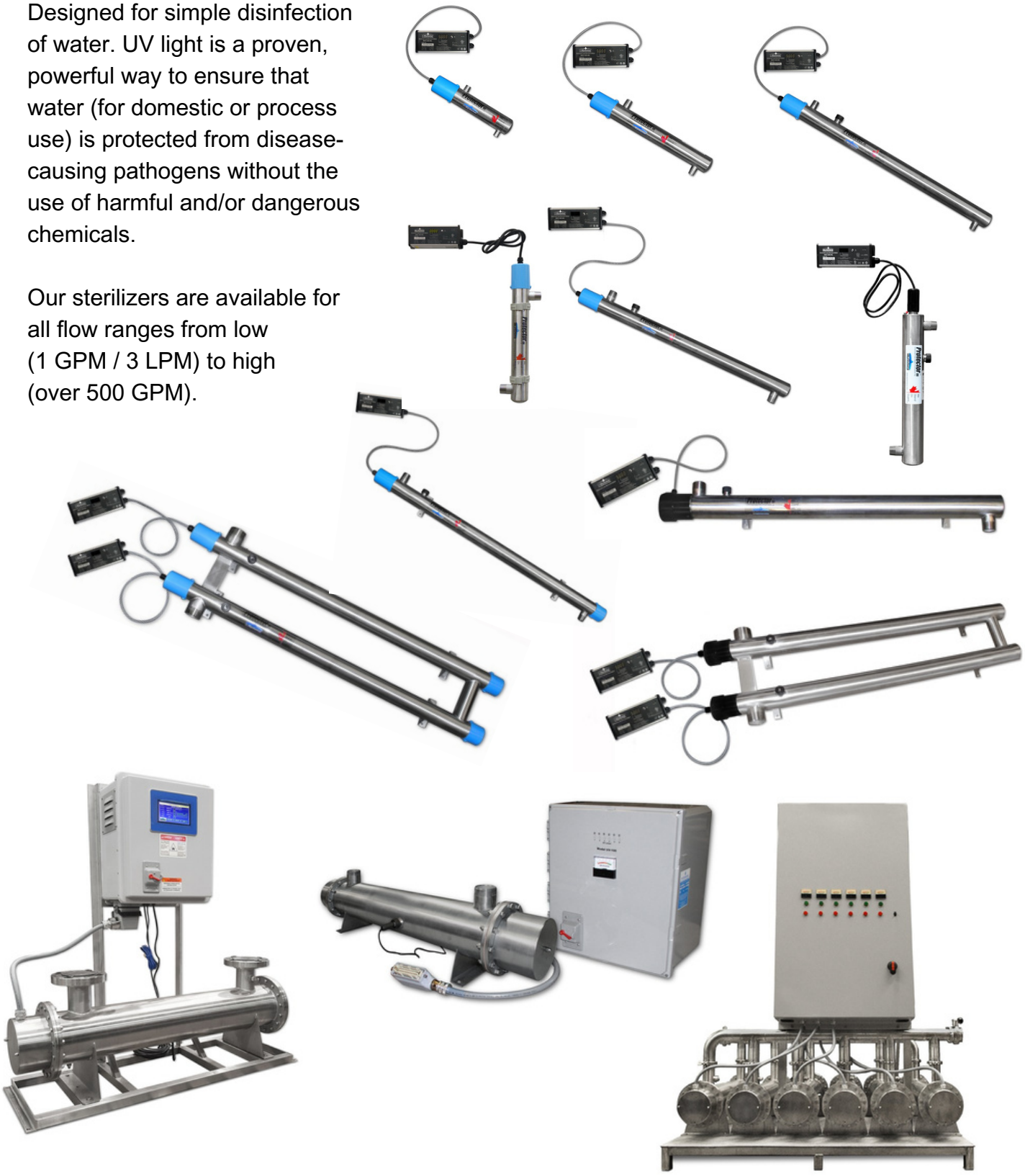
Product Range

Wyckomar manufactures at our plant a large variety of water treatment products.

UV Sterilizers

Designed for simple disinfection of water. UV light is a proven, powerful way to ensure that water (for domestic or process use) is protected from disease-causing pathogens without the use of harmful and/or dangerous chemicals.

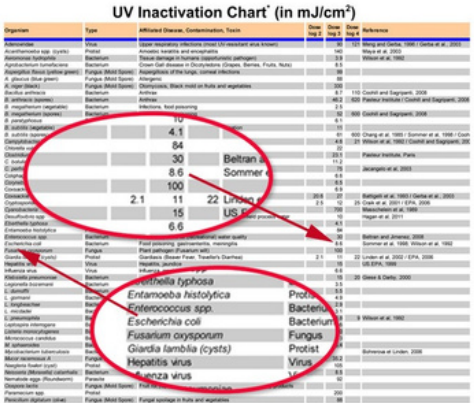
Our sterilizers are available for all flow ranges from low (1 GPM / 3 LPM) to high (over 500 GPM).



Features

Wyckomar UV Sterilizers contain a low-pressure, high output UVC lamp inside a stainless steel reaction chamber made of 304L or 316L SS. They come with an electronic ballast that features a lamp-out alarm if there is no power to the lamp. Units on 120V and 240V AC power come with a ballast that features a resettable operation count down that is displayed on an LED.

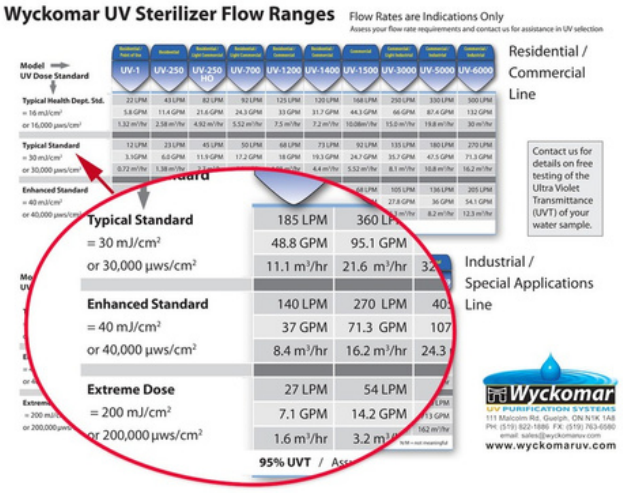
Wyckomar UV Sterilizer kill most harmful pathogens such as viruses, bacteria and protozoa with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of 99.99% (log 4) or more (*Giardia, E. coli, Cryptosporidium, Vibrio cholerae, Legionella, Salmonella, Shigella, Streptococcus* and many others).



Refer to the Inactivation Chart (Page 18) for the UV dose required for any considered application (e.g. *E. coli* requires 8.8 mJ/cm^2 of UV for a 99.9% (log 3) inactivation.)

Look up the appropriate UV unit in the Flow Range Chart at 95% UVT (Page 16) or at 70% UVT (Page 17) for the required flow rate of the application.

Typically installed at the point of use (e.g. under the sink) or at the point of entry (at the incoming line to the building), Wyckomar sterilizers can treat municipal water as well as ground water from drilled or dug wells, and surface water from lakes, ponds or rivers.



Combined with a Wyckomar filter set for pre-filtration, Wyckomar UV sterilizers are the centre piece of a complete water treatment system for the elimination of bacteria and viruses and reduction of taste and odour at the point of entry.

Wyckomar UV sterilizers assume certain water quality parameters to be met for proper operation. If the source water does not meet the following criteria, pretreatment has to be considered:

- Turbidity (Suspended Solids): Must be < 1 NTU (Nephelometric Turbidity Unit) at the time of disinfection. There must be a 5 micron or less sediment prefiltration system installed before the UV system.
- Total Hardness (Sum of Calcium and Magnesium) must be < 10 gpg (grains per gallon)
- Iron: Must be < 0.3 ppm (parts per million)
- Manganese: Must be < 0.05 ppm

Wyckomar UV Purification Systems

UV Sterilizer Low Flow Rate 1 - 5 GPM

These sterilizers are for the purification of drinking water at the Point of Use and/or all incoming water in small to medium households and cottages. Other applications for the sterilizers are for the purification of process water in laboratories and dental offices, or the prevention of biofouling in RO Systems.

Applications

- Potable Water
- RV's
- Cottages
- RO Systems
- Laboratories
- Dental Offices
- Water Cooler

				
Part # Model Name	**P1/QD4E** The Athabasca | Purifier	**P1/QD4E - 12V/24V** The Athabasca | Purifier - DC	**P250/QD4E** The Huron | Purifier	**P250/QD4E - 12V/24V** The Huron | Purifier - DC
Flow Range	9 - 22 LPM 2.4 - 5.8 GPM	9 - 22 LPM 2.4 - 5.8 GPM	17 - 43 LPM 4.5 - 11.4 GPM	17 - 43 LPM 4.5 - 11.4 GPM
UV Dose Applied @ 95% UVT	**16 mJ/cm2 @** 22 LPM / 5.8 GPM **30 mJ/cm2 @** 12 LPM / 3.1 GPM **40 mJ/cm2 @** 9 LPM / 2.4 GPM	**16 mJ/cm2 @** 22 LPM / 5.8 GPM **30 mJ/cm2 @** 12 LPM / 3.1 GPM **40 mJ/cm2 @** 9 LPM / 2.4 GPM	**16 mJ/cm2 @** 43 LPM / 11.4 GPM **30 mJ/cm2 @** 23 LPM / 6 GPM **40 mJ/cm2 @** 17 LPM / 4.5 GPM	**16 mJ/cm2 @** 43 LPM / 11.4 GPM **30 mJ/cm2 @** 23 LPM / 6 GPM **40 mJ/cm2 @** 17 LPM / 4.5 GPM
Electrical	110 - 240 Volt AC / 50 - 60 Hz	12 V DC / 24 V DC	110 - 240 Volt AC / 50 - 60 Hz	12 V DC / 24 V DC
Ballast	Electronic Ballast w/ Lamp Out Alarm, Power LED Count of Total Running Days on LCD Display (Resettable) Model RH51-425-40L Part # 4-BE-425-ECO-R	Electronic Ballast w/ Lamp Out Alarm, Power LED Part # 4-BE-12VP1 Part # 4-BE-24VP1	Electronic Ballast w/ Lamp Out Alarm, Power LED Count of Total Running Days on LCD Display (Resettable) Model RH51-425-40L Part # 4-BE-425-ECO-R	Electronic Ballast w/ Lamp Out Alarm, Power LED Part # 4-BE-12VP250 Part # 4-BE-24VP250
Ballast Enc. Rating	IP64	IP65	IP64	IP65
Lamp Current	0.39 - 0.43 A / U-Out: 300 V / PF(λ): > 0.99% / THD: < 10%	0.425 A	0.39 - 0.43 A / U-Out: 300 V / PF(λ): > 0.99% / THD: < 10%	0.425 A
Number of Lamps	1 Low-Pressure UVC @ 12 Watts, 425 mA (Part# RL-12/254T5)	1 Low-Pressure UVC @ 12 Watts, 425 mA (Part# RL-12/254T5)	1 Low-Pressure UVC @ 23 Watts, 425 mA (Part# RL-23/436T5)	1 Low-Pressure UVC @ 23 Watts, 425 mA (Part# RL-23/436T5)
Optional UV Monitor	Analog / Digital, Special Order Only	Analog / Digital, Special Order Only	Analog / Digital, Special Order Only	Analog / Digital, Special Order Only
Min/Max. Operating Temp.	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)
Max. Pressure	125 psi - 8.6 bar	125 psi - 8.6 bar	125 psi - 8.6 bar	125 psi - 8.6 bar
Plumbing	3/8" FNPT In/Out	3/8" FNPT In/Out	3/4" MNPT In/Out	3/4" MNPT In/Out
Chamber Material	304L Stainless Steel (316L SS optional)	304L Stainless Steel (316L SS optional)	304L Stainless Steel (316L SS optional)	304L Stainless Steel (316L SS optional)
Shipping Size/Weight	1 box 26x7x6 inches, 5 lbs	1 box 26x7x6 inches, 5 lbs	1 box 26x7x6 inches, 8 lbs	1 box 26x7x6 inches, 8 lbs

UV Sterilizer Medium Flow Rate 8 - 14 GPM

These sterilizers are for the purification of all incoming water in medium to large households as well as small commercial or light industrial applications, such as coffee shops, doctor's offices, hair salons or restaurants.

Applications

- Potable Water
- Whole House
- Up to 6 People
- Food and Beverage
- Light Industrial
- Small Commercial

				
Part # Model Name	**P700/QD4E** The Ontario | Purifier	**P250HO/QD4E** Model UV-250 HO | Purifier	**P1200/QD4E** The Manitoba | Purifier	**P1400/QD4E** The Superior | Purifier
Flow Range	37 - 92 LPM 9.8 - 24.3 GPM	33 - 82 LPM 8.7 - 21.6 GPM	50-125 LPM 13.2 - 33 GPM	54 - 120 LPM 14 - 31.7 GPM
UV Dose Applied @ 95% UVT	**16 mJ/cm2 @** 92 LPM / 24.3 GPM **30 mJ/cm2 @** 50 LPM / 17.2 GPM **40 mJ/cm2 @** 37 LPM / 9.8 GPM	**16 mJ/cm2 @** 82 LPM / 21.6 GPM **30 mJ/cm2 @** 45 LPM / 11.9 GPM **40 mJ/cm2 @** 33 LPM / 8.7 GPM	**16 mJ/cm2 @** 125 LPM / 33 GPM **30 mJ/cm2 @** 68 LPM / 18 GPM **40 mJ/cm2 @** 50 LPM / 13.2 GPM	**16 mJ/cm2 @** 120 LPM / 31.7 GPM **30 mJ/cm2 @** 73 LPM / 19.36 GPM **40 mJ/cm2 @** 53 LPM / 14 GPM
Electrical	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz
Ballast	Electronic Ballast w/ Lamp Out Alarm, Power LED Count of Total Running Days on LCD Display (Resettable) Model RH51-425-40L (Part # 4-BE-425-ECO-R)	Electronic Ballast w/ Lamp Out Alarm, Power LED, Count of Total Running Days on LCD Display (Resettable) Model RH51-800-95L (Part # 4-BE800-ECO)	Electronic Ballast w/ Lamp Out Alarm, Power LED, Count of Total Running Days on LCD Display (Resettable) Model RH51-800-95L (Part # 4-BE800-ECO)	Electronic Ballast w/ Lamp Out Alarm, Power LED, Count of Total Running Days on LCD Display (Resettable) Model RH51-800-95L (Part # 4-BE800-14ECO)
Ballast Enc. Rating	IP64	IP64	IP64	IP64
Lamp Current	0.39 - 0.43 A / U-Out: 300 V / PF(λ): > 0.99% / THD: < 10%	0.75 - 0.85 A / U-Out: 300 V / PF(λ): > 0.99% / THD: < 10%	0.75 - 0.85 A / U-Out: 300 V / PF(λ): > 0.99% / THD: < 10%	0.75 - 0.85 A / U-Out: 300 V / PF(λ): > 0.99% / THD: < 10%
Number of Lamps	1 Low-Pressure UVC @ 40 Watts, 425 mA (Part# RL-40/867T5)	1 Low-Pressure UVC @ 44 Watts, 800 mA (Part# RL-44/436T5)	1 Low-Pressure UVC @ 84 Watts, 800 mA (Part# RL-84/893T5)	1 Low-Pressure UVC @ 51 Watts, 800 mA (Part# RL-51/540T5)
Optional UV Monitor	Analog (Part # 4-UV/MS-1/2 V3) Digital (Part # 4-UV/MS/DUV27)	Analog (Part # 4-UV/MS-1/2 V3) Digital (Part # 4-UV/MS/DUV27)	Analog (Part # 4-UV/MS-1/2 V3) Digital (Part # 4-UV/MS/DUV27)	Analog (Part # 4-UV/MS-1/2 V3) Digital (Part # 4-UV/MS/DUV27)
Min/Max. Operating Temp.	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)
Max. Pressure	125 psi - 8.6 bar	125 psi - 8.6 bar	125 psi - 8.6 bar	125 psi - 8.6 bar
Plumbing	3/4" MNPT In/Out	1" MNPT In/Out	1" MNPT In/Out	1" MNPT In/Out
Chamber Material	304L Stainless Steel (316L SS optional)	316L Stainless Steel	304L Stainless Steel (316L SS optional)	316L Stainless Steel
Shipping Size/Weight	45x7x7 inches, 12 lbs	1 box 26x7x6 inches, 8 lbs	1 box 45x7x7 inches, 12 lbs	1 box 26x7x7 inches, 15 lbs

Wyckomar UV Purification Systems

UV Sterilizer Large Flow Rate 15 - 30 GPM

These sterilizers are pefectly sized to provide drinking water or purified process water for large houses and mansions, as well as for commercial and light industrial applications.

Applications

- Potable Water
- Large Household
- Commercial
- Health Clinics
- Hotel, Restaurant
- Fish Farming
- Campgrounds

				
Part # Model Name	**P1500/QS4E** The Muskoka | Purifier	**P3000/QS4E** (Quartz Sleeve) The Great Bear | Purifier	**P3000/QD4E** (Quartz Dom) The Great Bear | Purifier	**P3000/QS4E-PVC** Model UV-3000 PVC | Purifier
Flow Range	68 - 168 LPM 17.9 - 44.3 GPM	105 - 250 LPM 27.8 - 66 GPM	105 - 250 LPM 27.8 - 66 GPM	105 - 250 LPM 27.8 - 66 GPM
UV Dose Applied @ 95% UVT	**16 mJ/cm2 @**168 LPM / 44.3 GPM **30 mJ/cm2 @** 92 LPM / 24.7 GPM **40 mJ/cm2 @** 68 LPM / 17.9 GPM	**16 mJ/cm2 @** 250 LPM/66 GPM **30 mJ/cm2 @** 135 LPM/35.7 GPM **40 mJ/cm2 @** 105 LPM/27.8 GPM	**16 mJ/cm2 @** 250 LPM/66 GPM **30 mJ/cm2 @** 135 LPM/35.7 GPM **40 mJ/cm2 @** 105 LPM/27.8 GPM	**16 mJ/cm2 @** 250 LPM/66 GPM **30 mJ/cm2 @** 135 LPM/35.7 GPM **40 mJ/cm2 @** 105 LPM/27.8 GPM
Electrical	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz
Ballast	Electronic Ballast w/ Lamp Out Alarm, Power LED, Count of Total Running Days on LCD Display (Resettable) Model RH51-800-95L (Part # 4-BE800-ECO)	Electronic Ballast w/ Lamp Out Alarm, Power LED, Count of Total Running Days on LCD Display (Resettable) Model RH51-800-95L (Part # 4-BE800-30ECO)	Electronic Ballast w/ Lamp Out Alarm, Power LED, Count of Total Running Days on LCD Display (Resettable) Model RH51-800-95L (Part # 4-BE800-30ECO)	Electronic Ballast w/ Lamp Out Alarm, Power LED, Count of Total Running Days on LCD Display (Resettable) Model RH51-800-95L (Part # 4-BE800-30ECO)
Ballast Enc. Rating	IP64	IP64	IP64	IP64
Lamp Current	0.75 - 0.85 A / U-Out: 300 V / PF(λ): > 0.99% / THD: < 10%	0.75 - 0.85 A / U-Out: 300 V / PF(λ): > 0.99% / THD: < 10%	0.75 - 0.85 A / U-Out: 300 V / PF(λ): > 0.99% / THD: < 10%	0.75 - 0.85 A / U-Out: 300 V / PF(λ): > 0.99% / THD: < 10%
Number of Lamps	1 Low-Pressure UVC @110 Watts, 800 mA (Part# RL-110/1197T5)	1 Low-Pressure UVC @100 Watts, 800 mA (Part# RL-100/1197T6)	1 Low-Pressure UVC @100 Watts, 800 mA (Part# RL-100/1197T6)	1 Low-Pressure UVC @100 Watts, 800 mA (Part# RL-100/1197T6)
Optional UV Monitor	Analog (Part # 4-UV/MS-1/2 V3) Digital (Part # 4-UV/MS/DUV27)	Analog (Part # 4-UV/MS-1/2 V3) Digital (Part # 4-UV/MS/DUV27)	Analog (Part # 4-UV/MS-1/2 V3) Digital (Part # 4-UV/MS/DUV27)	
Min/Max. Operating Temp.	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 37 °C (98 °F)
Max. Pressure	125 psi - 8.6 bar	125 psi - 8.6 bar	125 psi - 8.6 bar	75 PSI - 5.17 bar
Plumbing	1" MNPT In/Out	1.5" MNPT In/Out	1.5" MNPT In/Out	1.5" MNPT In/Out
Chamber Material	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel	PVC Sch 80
Shipping Size/Weight	1 box 52x9x9 inches, 18 lbs	1 box 52x9x9 inches, 24lbs	1 box 52x9x9 inches, 24lbs	1 box 52x9x9 inches, 24lbs

UV Sterilizer XLarge Flow Rate 50 - 80 GPM

These sterilizers are perfectly sized to provide drinking water or purified process water for commercial and light industry applications, including food and beverage processing, pharmaceutical manufacturing, or cooling towers.

Applications

- Potable Water
- Process Water
- Bottling Plants
- Pools and Spa's

				
Part # Model Name	**P5000/QS4E** Model UV-5000 | Purifier	**P5000/QS4E-ICP** Model UV-5000 | Purifier	**P6000/QD4E** Model UV-6000 | Purifier	**P6000/QD4E-ICP** Model UV-6000 | Purifier
Flow Range	136 - 330 LPM 36 - 87.4 GPM	136 - 330 LPM 36 - 87.4 GPM	205 - 500 LPM 54.1 - 132 GPM	205 - 500 LPM 54.1 - 132 GPM
UV Dose Applied @ 95% UVT	**16 mJ/cm2 @** 330 LPM/87.4 GPM **30 mJ/cm2 @** 180 LPM/47.5 GPM **40 mJ/cm2 @** 136 LPM/36.4 GPM	**16 mJ/cm2 @** 330 LPM/87.4 GPM **30 mJ/cm2 @** 180 LPM/47.5 GPM **40 mJ/cm2 @** 136 LPM/36.4 GPM	**16 mJ/cm2 @** 500 LPM/132 GPM **30 mJ/cm2 @** 270 LPM/71.3 GPM **40 mJ/cm2 @** 205 LPM / 54.1 GPM	**16 mJ/cm2 @** 500 LPM/132 GPM **30 mJ/cm2 @** 270 LPM/71.3 GPM **40 mJ/cm2 @** 205 LPM / 54.1 GPM
Electrical	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz
Ballast	Electronic Ballast w/ Lamp Out Alarm, Power LED, Count of Total Running Days on LCD Display (Resettable) Model RH51-800-95L (Part # 4-BE800-ECO) x 2	Integrated Control Panel Electronic Ballast w/ Lamp Out Alarm inside NEMA IV Control Panel Non-Metallic Part # 4-13PN x 2	Electronic Ballast w/ Lamp Out Alarm, Power LED, Count of Total Running Days on LCD Display (Resettable) Model RH51-800-95L (Part # 4-BE800-30ECO) x 2	Integrated Control Panel Electronic Ballast w/ Lamp Out Alarm inside NEMA IV Control Panel Non-Metallic Part # 4-13PN x 2
Ballast Enc. Rating	IP64	IP66	IP64	IP66
Lamp Current	0.75 - 0.85 A / U-Out: 300 V / PF(λ): > 0.99% / THD: < 10%	0.80 A / U-Out: 300 V / PF(λ): > 0.99% / THD: < 10%	0.75 - 0.85 A / U-Out: 300 V / PF(λ): > 0.99% / THD: < 10%	0.80 A / U-Out: 300 V / PF(λ): > 0.99% / THD: < 10%
Number of Lamps	2 Low-Pressure UVC @110 Watts, 800 mA (Part# RL-110/1197T5)	2 Low-Pressure UVC @110 Watts, 800 mA (Part# RL-110/1197T5)	2 Low-Pressure UVC @100 Watts, 800 mA (Part# RL-100/1197T6)	2 Low-Pressure UVC @100 Watts, 800 mA (Part# RL-100/1197T6)
Optional UV Monitor	Analog (Part # 4-UV/MS-1/2 V3) Digital (Part # 4-UV/MS/DUV27)	Integrated (Part # 4-MCB-V3) with 2 x Sensor (Part # 4-35-3)	Analog (Part # 4-UV/MS-1/2 V3) Digital (Part # 4-UV/MS/DUV27)	Integrated (Part # 4-MCB-V3) with 2 x Sensor (Part # 4-35-3)
Min/Max. Operating Temp.	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)
Max. Pressure	125 psi - 8.6 bar	125 psi - 8.6 bar	125 psi - 8.6 bar	125 psi - 8.6 bar
Plumbing	2" MNPT In/Out	2" MNPT In/Out	2" MNPT In/Out	2" MNPT In/Out
Chamber Material	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel
Shipping Size/Weight	1 box 52x16x9 inches, 46 lbs	1 box 52x16x9 inches, 40 lbs 1 box 18x12x12, 10 lbs	1 box 52x16x9 inches, 40 lbs	1 box 52x16x9 inches, 40 lbs 1 box 18x12x12, 10 lbs

UV Sterilizer XXLarge Flow Rate 100++ GPM

These sterilizers contain an array of low pressure, high output UVC lamps in a 316l stainless reaction chamber. They are equipped with a UV monitoring system that can be coupled with a remote 4-20mA output.

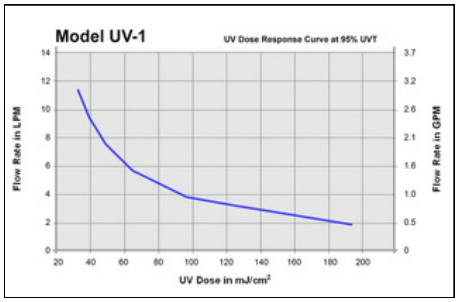
Applications

- Potable Water
- High Volume
- Disinfection
- Extreme UV Dose
- Industrial

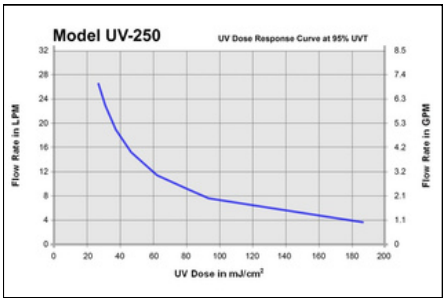
				
Part # Model Name	**P100/QD4E** Model UV-100 | Purifier	**P5007/QS4E** Model UV-5007 | Purifier	**P5007/QS4E-Skid** Model UV-5007 SKD | Purifier	**P5007/QS4E-X2** Model UV-5007x2 | Purifier
Flow Range	370 - 850 LPM 97.7 - 224.5 GPM	575 - 1450 LPM 152 - 383 GPM	575 - 1450 LPM 152 - 383 GPM	1130 - 2900 LPM 304 - 766 GPM
UV Dose Applied	**95% UVT, 40 mJ/cm2** @ 850 LPM / 224.5 GPM **70% UVT, 40 mJ/cm2** @ 370 LPM / 97.7 GPM	**95% UVT, 40 mJ/cm2** @ 1450 LPM / 383 GPM **70% UVT, 40 mJ/cm2** @ 575 LPM / 152 GPM	**95% UVT, 40 mJ/cm2** @ 1450 LPM / 383 GPM **70% UVT, 40 mJ/cm2** @ 575 LPM / 152 GPM	**95% UVT, 40 mJ/cm2** @ 2900 LPM / 766 GPM **70% UVT, 40 mJ/cm2** @ 1130 LPM / 304 GPM
Electrical	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz
Ballast	Electronic Ballast w/ Lamp Out Alarm inside NEMA IV Control Panel Non-Metallic Part # 4-13PN x 5	Electronic Ballast w/ Lamp Out Alarm inside NEMA IV Control Panel Non-Metallic Part # 4-13PN x 7	Electronic Ballast w/ Lamp Out Alarm inside NEMA IV Control Panel Non-Metallic Part # 4-13PN x 7	Electronic Ballast w/ Lamp Out Alarm inside NEMA IV Control Panel Non-Metallic Part # 4-13PN x 14
Enc. Rating	IP66	IP66	IP66	IP66
Lamp Current	0.8 A / U-Out: 300 V / PF(λ): > 0.99% / THD: < 10%	0.8 A / U-Out: 300 V / PF(λ): > 0.99% / THD: < 10%	0.8 A / U-Out: 300 V / PF(λ): > 0.99% / THD: < 10%	0.8 A / U-Out: 300 V / PF(λ): > 0.99% / THD: < 10%
Number of Lamps	6 Low-Pressure UVC @84 Watts, 800 mA (Part# RL-84/893T5)	7 Low-Pressure UVC @110 Watts, 800 mA (Part# RL-110/1197T5)	7 Low-Pressure UVC @110 Watts 800 mA (Part# RL-110/1197T5)	14 Low-Pressure UVC @110 Watts, 800 mA (Part# RL-110/1197T5)
UV Monitor	Integrated (Part # 4-MCB-V3) with Sensor (Part # 4-35-3)	Integrated (Part # 4-MCB-V3) with Sensor (Part # 4-35-3)	Integrated (Part # 4-MCB-V3) with Sensor (Part # 4-35-3)	Integrated (Part # 4-MCB-V3) with 2 x Sensor (Part # 4-35-3)
Min/Max. Operating Temp.	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)
Max. Pressure	125 psi - 8.6 bar	125 psi - 8.6 bar	125 psi - 8.6 bar	125 psi - 8.6 bar
Plumbing	2” MNPT In/Out	3" Flanges In/Out	3" Flanges In/Out	4" Flanges In/Out
Chamber Material	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel
Shipping Size/Weight	1 skid 48x23x30 inches, 116 lbs	1 skid 54x23x37 inches, 230 lbs	1 skid 54x42x56 inches, 450 lbs	

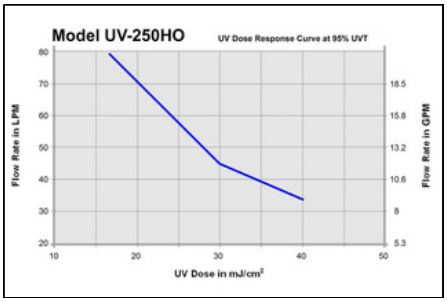
UV Sterilizer Dose Charts

Low Flow Rate 1 - 4 GPM

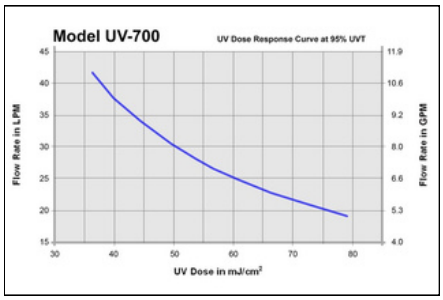


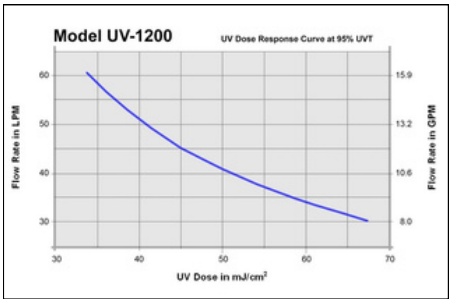
Medium Flow Rate 5 - 14 GPM

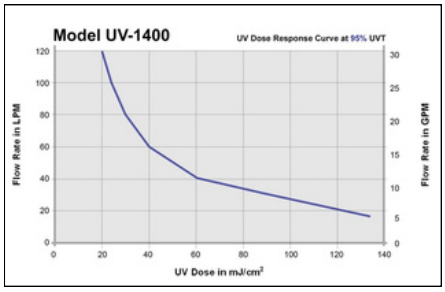




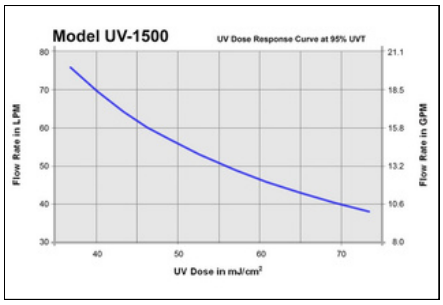
Medium Flow Rate 5 - 14 GPM

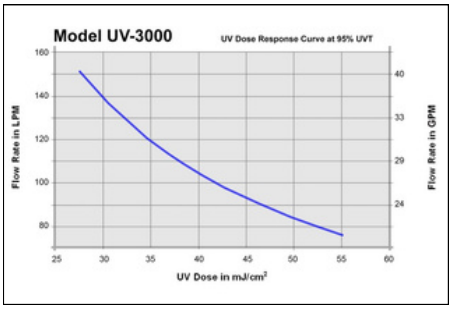


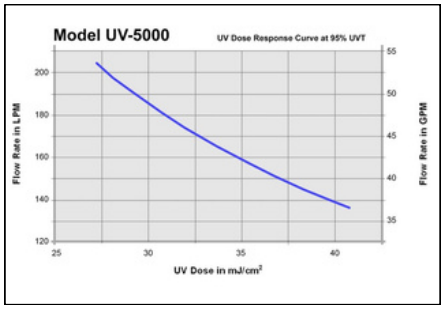




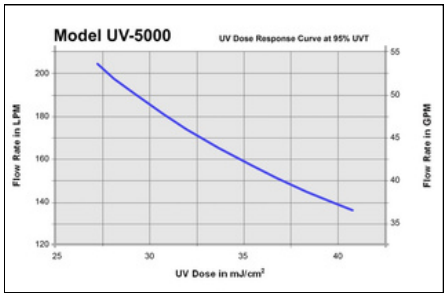
Large Flow Rate 15 - 30 GPM

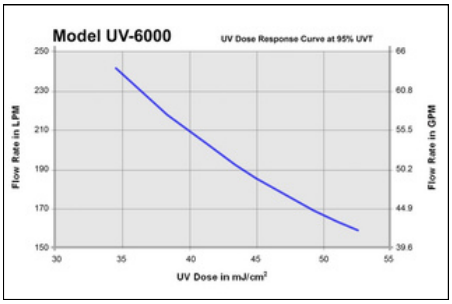




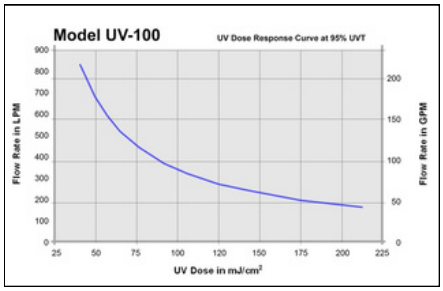


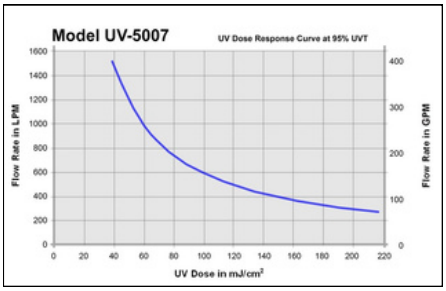
XLarge Flow Rate 50 - 80 GPM

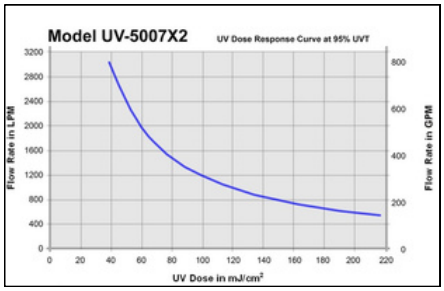




XXLarge Flow Rate 100++ GPM







Wyckomar UV Sterilizer
Flow Ranges @ 95% UVT

Flow Rates are Indications Only

Assess your flow rate requirements and contact us for assistance in UV selection

Residential / Commercial Line

Model → UV Dose Standard ↓	Residential / Point of Use UV-1	Residential UV-250	Residential / Light Commercial UV-250 HO	Residential / Light Commercial UV-700	Residential / Commercial UV-1200	Residential / Commercial UV-1400	Commercial UV-1500	Commercial / Light Industrial UV-3000	Commercial / Industrial UV-5000	Commercial / Industrial UV-6000
Typical Health Dept. Std.	22 LPM	43 LPM	82 LPM	92 LPM	125 LPM	120 LPM	168 LPM	250 LPM	330 LPM	500 LPM
= 16 mJ/cm2	5.8 GPM	11.4 GPM	21.6 GPM	24.3 GPM	33 GPM	31.7 GPM	44.3 GPM	66 GPM	87.4 GPM	132 GPM
or 16,000 µws/cm2	1.32 m3/hr	2.58 m3/hr	4.92 m3/hr	5.52 m3/hr	7.5 m3/hr	7.2 m3/hr	10.8 m3/hr	15.0 m3/hr	19.8 m3/hr	30 m3/hr
Typical Standard	12 LPM	23 LPM	45 LPM	50 LPM	68 LPM	73 LPM	92 LPM	135 LPM	180 LPM	270 LPM
= 30 mJ/cm2	3.1GPM	6.0 GPM	11.9 GPM	17.2 GPM	18 GPM	19.3 GPM	24.7 GPM	35.7 GPM	47.5 GPM	71.3 GPM
or 30,000 µws/cm2	0.72 m3/hr	1.38 m3/hr	2.7 m3/hr	3.0 m3/hr	4.08 m3/hr	4.4 m3/hr	5.52 m3/hr	8.1 m3/hr	10.8 m3/hr	16.2 m3/hr
Enhanced Standard	9 LPM	17 LPM	33 LPM	37 LPM	50 LPM	53 LPM	68 LPM	105 LPM	136 LPM	205 LPM
= 40 mJ/cm2	2.4 GPM	4.5 GPM	8.7 GPM	9.8 GPM	13.2 GPM	14 GPM	17.9 GPM	27.8 GPM	36 GPM	54.1 GPM
or 40,000 µws/cm2	0.54 m3/hr	1.02 m3/hr	1.98 m3/hr	2.22 m3/hr	3.0 m3/hr	3.18 m3/hr	4.02 m3/hr	6.3 m3/hr	8.2 m3/hr	12.3 m3/hr

95% UVT / Assumes Complete Mixing. Specifications Subject to Change.

Industrial / Special Applications Line

Model → UV Dose Standard ↓	Hot Water Applications PUV25AM	Commercial / Industrial SYS5100F	Commercial / Industrial SYS5100F3	Commercial / Industrial UV-100	Industrial UV-5007	Industrial UV5007X3	Industrial UV5007X6	Industrial UV5007X9
Typical Standard	185 LPM	360 LPM	540 LPM					
= 30 mJ/cm2	48.8 GPM	95.1 GPM	142.6 GPM	N/M	N/M	N/M	N/M	N/M
or 30,000 µws/cm2	11.1 m3/hr	21.6 m3/hr	32.4 m3/hr					
Enhanced Standard	140 LPM	270 LPM	405 LPM	850 LPM	1450 LPM	4350 LPM	8700 LPM	13050 LPM
= 40 mJ/cm2	37 GPM	71.3 GPM	107 GPM	224.5 GPM	383 GPM	1150 GPM	2300 GPM	3448 GPM
or 40,000 µws/cm2	8.4 m3/hr	16.2 m3/hr	24.3 m3/hr	51 m3/hr	87 m3/hr	261 m3/hr	522 m3/hr	783 m3/hr
Extreme Dose	27 LPM	54 LPM	81 LPM	169 LPM	300 LPM	900 LPM	1800 LPM	2700 LPM
= 200 mJ/cm2	7.1 GPM	14.2 GPM	21.4 GPM	44.6 GPM	80 GPM	238 GPM	475 GPM	713 GPM
or 200,000 µws/cm^2	1.6 m3/hr	3.2 m3/hr	4.8 m3/hr	10.1 m3/hr	18 m3/hr	54 m3/hr	108 m3/hr	162 m3/hr

95% UVT / Assumes Complete Mixing. Specifications Subject to Change. N/M = not meaningful

Wyckomar UV Sterilizer Flow Ranges @ 70% UVT

Flow Rates are Indications Only

Assess your flow rate requirements and contact us for assistance in UV selection

Residential / Commercial Line

Model → / UV Dose Standard ↓	Residential / Point of Use UV-1	Residential UV-250	Residential / Light Commercial UV-250 HO	Residential / Light Commercial UV-700	Residential / Commercial UV-1200	Residential / Commercial UV-1400	Commercial UV-1500	Commercial / Light Industrial UV-3000	Commercial / Industrial UV-5000	Commercial / Industrial UV-6000
Typical Health Dept. Std.	14.7 LPM	31.4 LPM	54.9 LPM	62.5 LPM	85.2 LPM	82.1 LPM	120 LPM	180 LPM	225 LPM	360 LPM
= 16 mJ/cm2	3.9 GPM	8.3 GPM	14.5 GPM	16.5 GPM	22.5 GPM	21.7 GPM	31.8 GPM	47.5 GPM	59.4 GPM	95.1 GPM
or 16,000 µws/cm2	0.88 m3/hr	1.9 m3/hr	3.3 m3/hr	3.8 m3/hr	5.1 m3/hr	4.9 m3/hr	7.22 m3/hr	10.8 m3/hr	13.5 m3/hr	21.6 m3/hr
Typical Standard	8.3 LPM	16.7 LPM	32.6 LPM	37.9 LPM	47.7 LPM	56.4 LPM	68.1 LPM	100 LPM	138 LPM	200 LPM
= 30 mJ/cm2	2.2 GPM	4.4 GPM	8.6 GPM	10 GPM	12.6 GPM	14.9 GPM	18 GPM	26.4 GPM	36.4 GPM	52.8 GPM
or 30,000 µws/cm2	0.50 m3/hr	1.0 m3/hr	1.9m3/hr	2.4 m3/hr	2.9 m3/hr	3.4 m3/hr	4.08 m3/hr	6 m3/hr	8.2 m3/hr	12 m3/hr
Enhanced Standard	6.8 LPM	13.2 LPM	24.6 LPM	28.4 LPM	37.9 LPM	40.9 LPM	51.1 LPM	75 LPM	105 LPM	150 LPM
= 40 mJ/cm2	1.8 GPM	3.5 GPM	6.5 GPM	7.5 GPM	10.0 GPM	10.8 GPM	13.5 GPM	19.8 GPM	27.7 GPM	39.6 GPM
or 40,000 µws/cm2	0.41 m3/hr	0.8 m3/hr	1.5 m3/hr	1.7 m3/hr	2.3 m3/hr	2.5 m3/hr	3.06 m3/hr	4.5 m3/hr	6.3 m3/hr	9 m3/hr

70% UVT / Assumes Complete Mixing. Specifications Subject to Change.

Industrial / Special Applications Line

Model → / UV Dose Standard ↓	Hot Water Applications PUV25AM	Commercial / Industrial SYS5100F	Commercial / Industrial SYS5100F3	Commercial / Industrial UV-100	Industrial UV-5007	Industrial UV5007X3	Industrial UV5007X6	Industrial UV5007X9
Typical Standard	140 LPM	276 LPM	484 LPM	500 LPM	750 LPM	2250 LPM	4500 LPM	6750 LPM
= 30 mJ/cm2	37 GPM	72.9 GPM	127.8 GPM	132 GPM	198 GPM	595 GPM	1189 GPM	1783 GPM
or 30,000 µws/cm2	8.4 m3/hr	16.5 m3/hr	29 m3/hr	30 m3/hr	45 m3/hr	135 m3/hr	270 m3/hr	405 m3/hr
Enhanced Standard	105 LPM	210 LPM	315 LPM	370 LPM	575 LPM	1725 LPM	3450 LPM	5175 LPM
= 40 mJ/cm2	27.7 GPM	55.4 GPM	83.2 GPM	97.7 GPM	152 GPM	456 GPM	911 GPM	1368 GPM
or 40,000 µws/cm2	6.3 m3/hr	12.6 m3/hr	18.9 m3/hr	22.2 m3/hr	34.5 m3/hr	103.5 m3/hr	207 m3/hr	310 m3/hr
Extreme Dose	20 LPM	40 LPM	60 LPM	75 LPM	110 LPM	330 LPM	660 LPM	990 LPM
= 200 mJ/cm2	5.3 GPM	10.5 GPM	15.8 GPM	19.8 GPM	29 GPM	87 GPM	175 GPM	262 GPM
or 200,000 µws/cm^2	1.2 m3/hr	2.4 m3/hr	3.6 m3/hr	4.5 m3/hr	6.6 m3/hr	19.8 m3/hr	39.6 m3/hr	59.4 m3/hr

70% UVT / Assumes Complete Mixing. Specifications Subject to Change.

UV Inactivation Chart* (in mJ/cm²)

Organism	Type	Affiliated Disease, Contamination, Toxin	Dose log 2	Dose log 3	Dose log 4	Reference
Adenoviridae	Virus	Upper respiratory infections (most UV-resisitant virus known)		90	121	Meng and Gerba, 1996 / Gerba et al., 2003
Acanthamoeba spp. (cysts)	Protist	Amoebic keratitis and encephalitis		140		Maya et al, 2003
Aeromonas hydrophila	Bacterium	Tissue damage in humans (opportunistic pathogen)		3.9		Wilson et al, 1992
Agrobacterium tumefaciens	Bacterium	Crown Gall disease in Dicotyledons (Grapes, Berries, Fruits, Nuts)		8.5		
Aspergillus flavus (yellow green)	Fungus (Mold Spore)	Aspergillosis of the lungs, corneal infections		99		
A. glaucus (blue green)	Fungus (Mold Spore)	Allergenic		88		
A. niger (black)	Fungus (Mold Spore)	Otomycosis, Black mold on fruits and vegetables		330		
Bacillus anthracis	Bacterium	Anthrax		8.7	110	Coohill and Sagripanti, 2008
B. anthracis (spores)	Bacterium	Anthrax		46.2	620	Pasteur Institute / Coohill and Sagripanti, 2008
B. megatherium (vegetable)	Bacterium	Infections, food poisoning		2.5		
B. megatherium (spores)	Bacterium	Infections, food poisoning		52	600	Coohill and Sagripanti, 2008
B. paratyphosus	Bacterium	non pathogenic		6.1		
B. subtilis (vegetable)	Bacterium	Ropiness in bread dough, food contamination		11		
B. subtilis (spores)	Bacterium	Ropiness in bread dough, food contamination		61	600	Chang et al, 1985 / Sommer et al, 1998 / Cooh
Campylobacter jejuni	Bacterium	Food poisoning, gastroenteritis		4.6	21	Wilson et al, 1992 / Coohill and Sagripanti, 200
Chlorella vulgaris	Protist (algae)	Plant pathogen		22		
Clostridium tetani	Bacterium	Tetanus		23.1		Pasteur Institute, Paris
C. botulinum	Bacterium	Produces Botulin toxin		11.2		
C. perfringens	Bacterium	Food posoning (ex C. welchii)		75		Jacangelo et al, 2003
Coliphage	Virus	Bacteriophage that infects *E. coli*		6.6		
Corynebacterium diphtheriae	Bacterium	Diphtheria		6.5		
Coxsackie A	Virus	Hand, foot & mouth disease, conjunctivitis, herpangina		6.9		
Coxsackie B	Virus	Pericarditis, myocarditis, gastrointestinal distress	20.6	27		Battigelli et al, 1993 / Gerba et al., 2003
Cryptosporidium parvum	Protist	Cryptospiridiosis, gastrointestinal illness	2.5	12	25	Craik et al, 2001 / EPA, 2006
Cyanobacteria	Bacterium	(blue green algae)		700		Masschelein et al, 1989
Desulfovibrio spp	Bacterium	(sulfate-reduction bacteria) Contamination of oilfield process water		10		Hagan et al, 2011
Eberthella typhosa	Bacterium	Typhoid fever		4.1		
Entamoeba histolytica	Protist	Amoebiasis		84		
Enterococcus spp.	Bacterium	Indicator species for (recreational) water quality		30		Beltran and Jimenez, 2008
Escherichia coli	Bacterium	Food poisoning, gastroenteritis, meiningitis		8.6		Sommer et al, 1998; Wilson et al, 1992
Fusarium oxysporum	Fungus	Plant pathogen (Fusarium wilt)		100		
Giardia lamblia (cysts)	Protist	Giardiasis (Beaver Fever, Traveller's Diarrhea)	2.1	11	22	Linden et al, 2002 / EPA, 2006
Hepatitis virus	Virus	Hepatitis, jaundice		15		US EPA, 1999
Influenza virus	Virus	Influenza, respiratory infections		6.6		
Klebsiella pneumoniae	Bacterium			15	20	Giese & Darby, 2000
Legionella bozemanii	Bacterium	Pneumonia		3.5		
L. dumoffii	Bacterium	Pneumonia		5.5		
L. gormanii	Bacterium	Pneumonia		4.9		
L. longbeachae	Bacterium	Legionnaire's disease, pontiac fever		2.9		
L. micdadei	Bacterium	Influenza, Pittsburgh pneumonia		3.1		
L. pneumophila	Bacterium	Legionnaire's disease		3.8	9	Wilson et al, 1992
Leptospira interrogans	Bacterium	Leptospirosis (Weil's disease, canicola-, canefield-, 7-day fever)		6		
Listeria monocytogenes	Bacterium	Foodborne Listeriosis		40		
Micrococcus candidus	Bacterium			12.3		
M. sphaeroides	Bacterium			15.4		
Mycobacterium tuberculosis	Bacterium	Tuberculosis	10			Bohrerova et Linden, 2006
Mucor racemosus A	Fungus (Mold Spore)	Fungal plant pathogen, zygomycosis and fungal sinusitis in humans		35.2		
Naegleria fowleri (cyst)	Protist	Warm water pathogen		105		
Neisseria (Moraxella) catarrhalis	Bacterium	Otitis media, sinusitis, laryngitis		8.5		
Nematode eggs (Roundworm)	Parasite	Ascariasis, Appendicitis, Loeffler's Syndrome		92		
Oospora lactis	Fungus (Mold Spore)	Fruit rot (rapid decay of ripe fruits, potatoes), mold in dairy products				
Paramecium spp.	Protist			200		
Penicillium digitatum (olive)	Fungus (Mold Spore)	Fungal spoilage in fruits and vegetables		88		
P. expansum (olive)	Fungus (Mold Spore)	Postharvest decay of stored apples		22		
P. roqueforti (green)	Fungus (Mold Spore)	Producing harmful secondary metabolites (alkaloids + mycotoxins)		26.4		
Phytomonas tumefaciens	Bacterium	Crown Gall disease in Dicotyledons (Grapes, Berries, Fruits, Nuts)		8.5		
Polio virus	Virus	Poliomyelitis (Polio)		27		Snicer et al, 1998, Wilson et al, 1992
Proteus vulgaris	Bacterium	Infections (esp. sinus and respiratory, urinary tract)		6.6		
Pseudomonas aeruginosa (lab)	Bacterium	Hospital acquired infections, ear infection, dermatitis in pools & tubs		3.9		
Pseudomonas aeruginosa (env.)	Bacterium	Hospital acquired infections, ear infection, dermatitis in pools & tubs		10.5		
Pythium spp	Fungus	Plant pathogen (root rot)		100		
Rhizopus nigricans (black)	Fungus (Mold Spore)	Infections, allergetic reactions (known as breadmold)		220		
Rhodospirillum rubrum	Bacterium			6.2		
Rotavirus	Virus	Infections, severe diahorea, gastroenteritis		26	36	Battigelli et al., 1993; Wilson et al., 1992
Saccharomyces spp	Yeast			13.2		
Salmonella enteritidis	Bacterium	Egg-associated Salmonellosis (fever, abdominal cramps, diarrhea)		7.6	10	Tosa and Hirata, 1998
S. paratyphi	Bacterium	Enteric fever		6.1		
S. typhi	Bacterium	Typhoid fever		30	50	Beltran and Jimenez, 2008 / Mayaet al. 2003
Sarcina lutea	Bacterium			26.4		
Serratia marcescens	Bacterium	Nosocomial (Hospital acquired) infections		6.2		
Shigella dysenteriae	Bacterium	Epidemic dysentery		4.2		Wilson et al., 1992
S. flexneri	Bacterium	Shigellosis, dysentery		3.4		
S. sonnei	Bacterium	Shigellosis		7		Chang et al., 1985
Staphylococcus aureus	Bacterium	Staph and nosocomial infections, toxic shock syndrome		7	10	Chang et al., 1986
S. epidermidis	Bacterium	Infections in catheters and prostheses		5.8		
Streptococcus hemolyticus	Bacterium	Strep throat		5.5		
S. faecalis	Bacterium	Endocarditis, bladder and prostate infection		8	11.2	Harris et al., 1987 / Chang et al., 1985
S. lactis	Bacterium			8.8		
S. pyogenes	Bacterium	Scarlet fever, toxic shock syndrome, flesh eating disease		8.8		
S. viridans	Bacterium	Mouth or gingival infections, endocarditis		3.8		
Tobacco mosaic virus	Virus	Mottling and discoloration in plants		440		
Toxoplasma gondii	Protist	Toxoplasmosis		10		Ware, Swinburn et al., 2010
Vibrio cholerae	Bacterium	Cholera		2.2	2.9	Wilson et al., 1992
Yersinia enterocolitica	Bacterium	Yersiniosis (fever, abdominal pain, diarrhea		3.7	5	Wilson et al., 1992

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

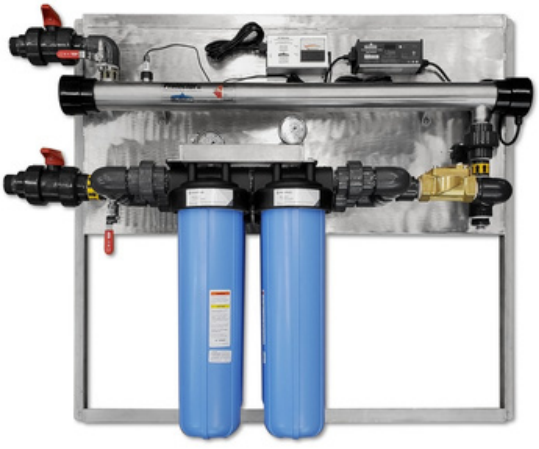
*UV energy levels required at 254 nanometer wavelength for 99.9% (log 3) destruction of organisms

Water Purification Systems

Integrated component or panel-mounted systems that combine effective pre-filtration and UV disinfection in a convenient and easy to install configuration.

Pre-filtration helps ensure that the water is suitable for UV disinfection treatment.

Wyckomar Water Treatment Systems are made for any size of household or commercial water purification application.



Features

Wyckomar produces a line of All-in-One Water Treatment Systems that are sized for the needs of all sizes of households to provide complete purified drinking water for domestic use. Typically installed at the point of entry, they are used for treating municipal water as well as ground water from drilled or dug wells, and surface water from lakes, ponds or rivers.

The water will be purified from most contaminants such as sediments, rust and pesticides with filtration down to 5 micron. Carbon filtration reduces taste and odour, including sulphur smell and chlorine residuals, as well as cysts.

Harmful microbiological contaminants, such as viruses, bacteria and protozoa are killed in the UV sterilizer with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of > 99.99% (log4) (*Giardia, E. coli, Cryptosporidium, Vibrio cholerae, Legionella, Salmonella, Shigella, Streptococcus* and many others).

Wyckomar purification systems come in different versions. SYS packages contain all the components to install a water treatment system at the rated flow. POU packages are pre-assembled on a small stainless steel backboard for ease of installation. SYS-MD packages come with added features and are pre-assembled on a sturdy backboard for commercial installations.

Higher flow rate systems for commercial and industrial applications contain the filtration in high volume filter housings and come pre-assembled on a skid with many additional features.

All installation hardware (mounting bracket, filter wrenches and flexible or rigid S-pipes for the connection between filtration and UV) are supplied with the systems. Shutoffs are optional, depending on the plumbing set-up.

Wyckomar water purification systems offer very efficient water treatment at a low cost per unit volume. The systems are designed for ease of installation and are fully tested prior to shipment.

Water Treatment Systems Low Flow Rate 1 - 4 GPM

These Wyckomar Complete Systems are All-in-One Water Treatment Systems that are sized for the needs of the smaller household (up to 4 people) to provide purified drinking water for domestic use.

				
Part # Model Name	**SYS250-SP/QD4E** **Portable UV** Solar Tote System	**SYS1/QD4E (AC)** **SYS1/QD4E-12VA (DC)** The Athabasca | Basic System	**SYS250/QD4E (AC)** **SYS250/QD4E-12VA (DC)** The Huron | Basic System	**SYS250-POU (AC)** **SYS250-POU-12VA (DC)** The Huron | Premier System
Rated Flow	Up to 10 LPM - 2.5 GPM	Up to 3.78 LPM - 1 GPM	Up to 15 LPM - 4 GPM	Up to 15 LPM - 4 GPM
Initial UV Dose at Rated Flow	50 mJ/cm2 @ 95 % UVT	96 mJ/cm2 @ 95 % UVT	46 mJ/cm2 @ 95 % UVT	46 mJ/cm2 @ 95 % UVT
Electrical	110 - 240 Volt AC / 50 - 60 Hz Powered by 12V DC Solar Panels	**AC:** 110 - 240 Volt AC / 50 - 60 Hz **DC:** 12 / 24 V DC	**AC:** 110 - 240 Volt AC / 50 - 60 Hz **DC:** 12 / 24 V DC	**AC:** 110 - 240 Volt AC / 50 - 60 Hz **DC:** 12 / 24 V DC
Ballast	Electronic Ballast w/ Lamp Out Alarm, Power LED, Count of Total Running Days on LCD Display (Resettable) Model RH51-800-95L (Part # 4-BE800-ECO)	**AC**: Electronic Ballast w/ Lamp Out Alarm, Power LED Count of Total Running Days on LCD Display (Resettable) Model RH51-425-40L Part# 4-BE-425-ECO-R **DC**: Ballast Part # 4-BE12V-P1	**AC**: Electronic Ballast w/ Lamp Out Alarm, Power LED Count of Total Running Days on LCD Display (Resettable) Model RH51-425-40L Part# 4-BE-425-ECO-R **DC**: Ballast Part # 4-BE12V-P250	**AC**: Electronic Ballast w/ Lamp Out Alarm, Power LED, Count of Total Running Days on LCD Display (Resettable) Model RH51-425-40L Part# 4-BE-425-ECO-R **DC**: Ballast Part # 4-BE12V-P250
UV Lamp	Low-Pressure UVC @44 Watts, 800 mA (Part# RL-44/436T5)	Low-Pressure UVC @12Watts, 425 mA (Part# RL-12/254T5)	Low-Pressure UVC @23Watts, 425 mA (Part# RL-23/436T5)	Low-Pressure UVC @23Watts, 425 mA (Part# RL-23/436T5)
Filtration	10" SlimLine (L 9-3/4" OD 2-1/2") w/ Pressure Relief	10" SlimLine (L 9-3/4" OD 2-1/2") w/ Pressure Relief	10" SlimLine (L 9-3/4" OD 2-1/2") w/ Pressure Relief	10" SlimLine (L 9-3/4" OD 2-1/2") w/ Pressure Relief
Stage 1 Sediment Filter	Melt-Blown Polypropylene ("Spun Poly") or Pleated Cell 5 Micron	Melt-Blown Polypropylene ("Spun Poly") or Pleated Cell 5 Micron	Melt-Blown Polypropylene ("Spun Poly") or Pleated Cell 5 Micron	Melt-Blown Polypropylene ("Spun Poly") or Pleated Cell 5 Micron
Stage 2 Carbon Filter	Carbon Impregnated Pleated Cell	Coconut Shell Carbon Extruded Carbon Block	Coconut Shell Carbon Extruded Carbon Block	Coconut Shell Carbon Extruded Carbon Block
Stage 3 X Filter	Coconut Shell Carbon Extruded Carbon Block			
S Pipe	PVC Tubing	PVC Tubing	SS Flexible Hose Part # 10-FF18	SS Flexible Hose Part # 10-FF12
Min/Max Oper. Temparature	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)
Max. Operating Pressure	N/A	125 psi - 8.6 bar	125 psi - 8.6 bar	125 psi - 8.6 bar
Plumbing	3/4" Garden Hose Connection In/Out	3/8" FNPT In/Out	3/4" MNPT In/Out	3/4" MNPT In/Out
Shipping Size and Weight	1box 39x26x25 inches, 130 lbs	1 box 19x17x7 inches, 15 lbs	1 box 26x17x7 inches, 16 lbs	1 box 24x20x9 inches, 30 lbs

Wyckomar UV Purification Systems

Water Treatment Systems Medium Flow Rate 8-14 GPM

These Wyckomar Complete Systems are All-in-One Water Treatment Systems that are sized for the needs of the average household (up to 6 people) to provide purified drinking water for domestic use.

				
Part # Model Name	**SYS700/QD4E** The Ontario | Basic System	**SYS700-POU** The Ontario | Premier System	**SYS-MD1003** The Ontario | All-in-One POE	**SYS250HO/QD4E** UV-250HO Complete System
Rated Flow	Up to 30 LPM - 8 GPM	Up to 30 LPM - 8 GPM	Up to 30 LPM - 8 GPM	Up to 53 LPM - 14 GPM
Initial UV Dose at Rated Flow	49 mJ/cm2 @ 95 % UVT	49 mJ/cm2 @ 95 % UVT	49 mJ/cm2 @ 95 % UVT	46 mJ/cm2 @ 95 % UVT
Electrical	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz
Ballast	Electronic Ballast w/ Lamp Out Alarm, Power LED Count of Total Running Days on LCD Display (Resettable) Model RH51-425-40L Part# 4-BE-425-ECO-R	Electronic Ballast w/ Lamp Out Alarm, Power LED Count of Total Running Days on LCD Display (Resettable) Model RH51-425-40L Part# 4-BE-425-ECO-R	Electronic Ballast w/ Lamp Out Alarm, Power LED Count of Total Running Days on LCD Display (Resettable) Model RH51-425-40L Part# 4-BE-425-ECO-R	Electronic Ballast w/ Lamp Out Alarm, Power LED, Count of Total Running Days on LCD Display (Resettable) Model RH51-800-95L (Part # 4-BE800-ECO)
UV Lamp	Low-Pressure UVC @40 Watts, 425 mA (Part# RL-40/867T5)	Low-Pressure UVC @40 Watts, 425 mA (Part# RL-40/867T5)	Low-Pressure UVC @40 Watts, 425 mA (Part# RL-40/867T5)	Low-Pressure UVC @44Watts, 800 mA (Part# RL-44/436T5)
Filtration	20" SlimLine (L20" OD 2-1/2") w/ Pressure Relief	20" SlimLine (L20" OD 2-1/2") w/ Pressure Relief	20" SlimLine (L20" OD 2-1/2") w/ Pressure Relief	10" BigBlue (L 9-3/4" OD 4-1/2") w/ Pressure Relief
Stage 1	Melt-Blown Polypropylene ("Spun Poly") or Pleated Cell 5 Micron	Melt-Blown Polypropylene ("Spun Poly") or Pleated Cell 5 Micron	Melt-Blown Polypropylene ("Spun Poly") or Pleated Cell 20 Micron	Melt-Blown Polypropylene ("Spun Poly") or Pleated Cell 5 Micron
Stage 2	Coconut Shell Carbon Extruded Carbon Block	Coconut Shell Carbon Extruded Carbon Block	Melt-Blown Polypropylene ("Spun Poly") or Pleated Cell 5 Micron	N/A
Stage 3	N/A	N/A	Carbon Impregnated Pleated Cell or Extruded Carbon Block	N/A
S Pipe	SS Flexible Hose Part # 10-FF36	Integrated Part # 10-FM24	Integrated Part # 10-FM24	SS Flexible Hose Part # 10-FF12-1
Min/Max Oper. Temparature	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)
Max. Operating Pressure	125 psi - 8.6 bar	125 psi - 8.6 bar	125 psi - 8.6 bar	90 psi - 6 bar
Plumbing	3/4" MNPT In/Out	3/4" MNPT In/Out	3/4" MNPT In/Out	1" MNPT In/Out
Shipping Size and Weight	1 box 45x7x7 inches, 12 lbs 1 box 26x17x7 inches, 16 lbs	1 box 41x20x17 inches, 32 lbs	1 skid 48x42x16 inches, 160 lbs	

Water Treatment Systems Medium Flow Rate 8-14 GPM

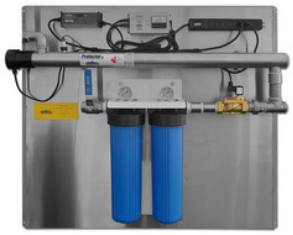
These Wyckomar Complete Systems are All-in-One Water Treatment Systems that are sized for the needs of the larger household (up to 12 people) to provide purified drinking water for domestic use.

				
Part # Model Name	**SYS1200/QD4E** The Manitoba | Basic System	**SYS-MD1004** The Manitoba | All-in-One POE	**SYS-1400-1/2BB** The Superior | Basic System	**SYS1400-POU** The Superior | Premier System
Rated Flow	Up to 45 LPM - 12 GPM	Up to 45 LPM - 12 GPM	Up to 53 LPM - 14 GPM	Up to 53 LPM - 14 GPM
Initial UV Dose at Rated Flow	44 mJ/cm2 @ 95 % UVT	44 mJ/cm2 @ 95 % UVT	40 mJ/cm2 @ 95 % UVT	40 mJ/cm2 @ 95 % UVT
Electrical	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz
Ballast	Electronic Ballast w/ Lamp Out Alarm, Power LED, Count of Total Running Days on LCD Display (Resettable) Model RH51-800-95L (Part # 4-BE800-ECO)	Electronic Ballast w/ Lamp Out Alarm, Power LED, Count of Total Running Days on LCD Display (Resettable) Model RH51-800-95L (Part # 4-BE800-ECO)	Electronic Ballast w/ Lamp Out Alarm, Power LED, Count of Total Running Days on LCD Display (Resettable) Model RH51-800-95L (Part # 4-BE800-14ECO)	Electronic Ballast w/ Lamp Out Alarm, Power LED, Count of Total Running Days on LCD Display (Resettable) Model RH51-800-95L (Part # 4-BE800-14ECO
UV Lamp	Low-Pressure UVC @84 Watts, 800 mA (Part# RL-84/893T5)	Low-Pressure UVC @84 Watts, 800 mA (Part# RL-84/893T5)	Low-Pressure UVC @51 Watts, 800 mA (Part# RL-51/540T5)	Low-Pressure UVC @51 Watts, 800 mA (Part# RL-51/540T5)
Filtration	20" BigBlue (L20" OD 4-1/2") w/ Pressure Relief	20" BigBlue (L20" OD 4-1/2") w/ Pressure Relief	10" BigBlue (L9-3/4" OD 4-1/2") w/ Pressure Relief (20" BB optional)	10" BigBlue (L 9-3/4" OD 4-1/2") w/ Pressure Relief
Stage 1	Melt-Blown Polypropylene ("Spun Poly") or Pleated Cell 5 Micron	Melt-Blown Polypropylene ("Spun Poly") or Pleated Cell 20 Micron	Melt-Blown Polypropylene ("Spun Poly") or Pleated Cell 5 Micron	Melt-Blown Polypropylene ("Spun Poly") or Pleated Cell 5 Micron
Stage 2	Coconut Shell Carbon Extruded Carbon Block	Melt-Blown Polypropylene ("Spun Poly") or Pleated Cell 5 Micron	Carbon Impregnated Pleated Cell or Extruded Carbon Block	Carbon Impregnated Pleated Cell or Extruded Carbon Block
Stage 3		Carbon Impregnated Pleated Cell or Extruded Carbon Block		
S Pipe	SS Flexible Hose Part #10-FF36-1	Integrated Part# 10-FM24	Integrated Part# 10-FF12-1	Integrated Part# 10-FF12-1
Min/Max Oper. Temparature	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)
Max. Operating Pressure	90 psi - 6 bar	90 psi - 6 bar	90 psi - 6 bar	90 psi - 6 bar
Plumbing	1" MNPT In/Out	1" MNPT In/Out	1" MNPT In/Out	1" MNPT In/Out
Shipping Size and Weight	1 box 45x7x7 inches, 12 lbs 1 box 52x9x9 inches, 36 lbs	1 skid 48x42x16 inches, 180 lbs	**1x10"**- box 24x18x10 inches, 28lbs **2x10"**- box 29x17x9 inches, 32lbs **1x20"**- box 24x24x10 inches, 38lbs **2x20"**- box 30x24x10 inches, 50lbs	1 box 29x29x11 minches, 54 lbs

Wyckomar UV Purification Systems

Water Treatment Systems Large Flow Rate 15-30 GPM

These Wyckomar Complete Systems are All-in-One Water Treatment Systems that are sized for the needs of the large household (12+ people) and small commercial application to provide purified drinking water for domestic or business use.

				
Part # Model Name	**SYS1500/QS4E** The Muskoka | Basic System	**SYS3000/QD4E** The Great Bear | Basic System	**SYS3000-POU** The Great Bear | Premier System	**SYSMD-1006** The Great Bear | All-in-One POE
Rated Flow	Up to 57 LPM - 15 GPM	Up to 57 LPM - 15 GPM	Up to 57 LPM - 15 GPM	Up to 113 LPM - 30 GPM
Initial UV Dose at Rated Flow	48 mJ/cm2 @ 95 % UVT	73 mJ/cm2 @ 95 % UVT	73 mJ/cm2 @ 95 % UVT	36 mJ/cm2 @ 95 % UVT
Electrical	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz
Ballast	Electronic Ballast w/ Lamp Out Alarm, Power LED, Count of Total Running Days on LCD Display (Resettable) Model RH51-800-95L (Part # 4-BE800-ECO)	Electronic Ballast w/ Lamp Out Alarm, Power LED, Count of Total Running Days on LCD Display (Resettable) Model RH51-800-95L (Part # 4-BE800-30ECO)	Electronic Ballast w/ Lamp Out Alarm, Power LED, Count of Total Running Days on LCD Display (Resettable) Model RH51-800-95L (Part # 4-BE800-30ECO)	Electronic Ballast w/ Lamp Out Alarm, Power LED, Count of Total Running Days on LCD Display (Resettable) Model RH51-800-95L (Part # 4-BE800-30ECO)
UV Lamp	Low-Pressure UVC @110 Watts, 800 mA (Part# RL-110/1197T5)	Low-Pressure UVC @100 Watts, 800 mA (Part# RL-100/1197T6)	Low-Pressure UVC @100 Watts, 800 mA (Part# RL-100/1197T6)	Low-Pressure UVC @100 Watts, 800 mA (Part# RL-100/1197T6)
Filtration	20" BigBlue (L20" OD 4-1/2") w/ Pressure Relief	20" BigBlue (L20" OD 4-1/2") w/ Pressure Relief	20" BigBlue (L20" OD 4-1/2") w/ Pressure Relief	20" BigBlue (L20" OD 4-1/2") w/ Pressure Relief
Stage 1 Sediment Filter	Melt-Blown Polypropylene ("Spun Poly") or Pleated Cell 5 Micron	Melt-Blown Polypropylene ("Spun Poly") or Pleated Cell 5 Micron	Melt-Blown Polypropylene ("Spun Poly") or Pleated Cell 5 Micron	Melt-Blown Polypropylene ("Spun Poly") or Pleated Cell 5 Micron x2 in Manifold
Stage 2 Carbon Filter	Carbon Impregnated Pleated Cell	Carbon Impregnated Pleated Cell	Carbon Impregnated Pleated Cell	Carbon Impregnated Pleated Cell x 2 in Manifold
S Pipe	SS Flexible Hose Part# 10-FF36-1	Integrated Part# 10-FF15-36	Integrated	Integrated
Min/Max Oper. Temparature	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)
Max. Operating Pressure	90 psi - 6 bar	90 psi - 6 bar	90 psi - 6 bar	90 psi - 6 bar
Plumbing	1" MNPT In/Out	1-1/2" MNPT In/Out	1-1/2" MNPT In/Out	1-1/2" MNPT In/Out
Shipping Size and Weight	1 box 52x9x9 inches, 18 lbs 1 box 52x9x9 inches, 36 lbs	1 box 52x9x9 inches, 24 lbs 1 box 52x9x9 inches, 42 lbs	1 skid54x48x16 inches, 240 lbs	1 skid54x48x22 inches, 320 lbs

Water Treatment Systems XLarge Flow Rate 50++ GPM

These Wyckomar Complete Systems are All-in-One Water Treatment Systems that are sized for the needs of multi-residential, commercial and industrial applications where the water is supplied by the municipality, drawn from a well or a surface water source.

				
Part #	**SKD-5000-JCH90-FM4X4**	**SKD-6000-BBBX2**	**SKD-5000-JCH170x2**	**SKD-5007-BBBX4**
Rated Flow	Up to 189 LPM - 50 GPM	Up to 270 LPM - 71 GPM	Up to 378 LPM - 100 GPM	Up to 680 LPM - 183 GPM
Initial UV Dose at Rated Flow	36 mJ/cm2 @ 95 % UVT	30 mJ/cm2 @ 95 % UVT	47 mJ/cm2 @ 95 % UVT	44 mJ/cm2 @ 95 % UVT
Electrical	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz
Ballast **UV Monitor**	Electronic Ballast w/ Lamp Out Alarm inside NEMA IV Control Panel Non-Metallic Part # 4-13PN x 2 Integrated, 2 Sensors	Electronic Ballast w/ Lamp Out Alarm inside NEMA IV Control Panel Non-Metallic Part # 4-13PN x 2 Integrated, 2 Sensors	Electronic Ballast w/ Lamp Out Alarm inside NEMA IV Control Panel Non-Metallic Part # 4-13PN x 4 2 x Integrated, 4 Sensors	Electronic Ballast w/ Lamp Out Alarm inside NEMA IV Control Panel Non-Metallic Part # 4-13PN x 7 Integrated, with Sensor
UV Lamp	2 Low-Pressure UVC @110 Watts, 800 mA (Part# RL-110/1197T5)	2 Low-Pressure UVC @100 Watts, 800 mA (Part# RL-100/1197T6)	4 Low-Pressure UVC @110 Watts, 800 mA (Part# RL-110/1197T5)	7 Low-Pressure UVC @110 Watts, 800 mA (Part# RL-110/1197T5)
Filtration	JCH90 and FM4x4 Stainless Steel Filterhousings	BigBubba Non-Metallic Filterhousings	JCH90 x 2 Stainless Steel Filterhousings	BigBubba Non-Metallic Filterhousings 2 x 2 in Manifold
Stage 1 Sediment Filter	Pleated Cell Jumbo Filter 5 Micron	Pleated BigBubba Filter 5 Micron	Pleated Cell Jumbo Filter 5 Micron	Pleated BigBubba Filter 5 Micron
Stage 2 Carbon Filter	4 x 40" x 2-1/2" Carbon Block	Carbon Impreganted Pleated Cell	Carbon Impreganted Pleated Cell	Carbon Impreganted Pleated Cell
Min/Max Oper. Temparature	Tmin. = 3 °C (37 °F), Tmax. = 121 °C (2504 °F)	Tmin. = 3 °C (37 °F), Tmax. = 80 °C (1754 °F)	Tmin. = 3 °C (37 °F), Tmax. = 121 °C (250 °F)	Tmin. = 3 °C (37 °F), Tmax. = 80 °C (175 °F)
Max. Operating Pressure	150 psi - 10 bar	125 psi - 8.6 bar	150 psi - 10 bar	125 psi - 8.6 bar
Plumbing	2” MNPT In/Out	2” MNPT In/Out	2” MNPT In/Out	3" Flange In/Out
Shipping Size and Weight	1 skid 48x52x63 inches, 270 lbs			

For custom systems, the configuration and dimensions are subject to change based on application and other factors

Custom Purification Systems

Besides the standard product line, Wyckomar manufactures custom UV systems based on customer needs and specifications. We can design any effective water treatment system for your application across a wide variety of flow rates and application specific disinfection requirements. Wyckomar also produces UV disinfection systems for indoor air purification.

Special UV sterilizers are manufactured for

- Hot Water applications built with amalgam lamp technology to offer excellent performance in applications requiring a relatively high UV dose vs. standard UV solutions
- Extreme UV Dose applications. Greenhouse systems (targeting Pythium and other root pathogens), systems for fish farming (targeting IPNV and other highly resisitant viruses), systems for the inactivation of Adenovirus, systems targeting blue green algae (Cyanobacteria), as well as systems that need a high flow rate are manufactured by manifolding a number of sterilizers into a big system.
- Sterilizers for the treatment of effluent water are equipped with pneumatic air-driven wipers and designed to significantly reduce bacterial load in greywater. These are very well suited for use aboard ships
- Explosionproof applications. Systems for use in hazardous areas and extreme environments that are Class I Division II certified. Heat tracing available for use in sub-zero environments. Multiple filtration levls and UV disinfection available on many models

Custom Purification Systems

Wyckomar manufactures UV sterilizer for special applications such as Hot Water Applications, Extreme UV Dose Applications, Explosionproof Sterilizer for Hazardous Environment Applications and Sterilizer for Effluent Wastewater Applications

For custom systems, the configuration and dimensions are subject to change based on application and other factors

Applications

- Greenhouse
- High Volume
- Hazardous Areas
- HVAC
- On Board Ships

				
Part #	**PUV-AM1/2** Hot Water Applications	**P5007X2 - X9** Extreme UV Dose 200 mJ/cm2	**Skid Mount Class I Div II** Explosionproof Applications	**Quattra50-UV** w/ Air-Drive Wiper System for Effluent Water
Rated Flow	50 - 300 LPM - 13.1 - 79.2 GPM	Up to 2700 LPM - 700 GPM	Up to 226 LPM - 60 GPM	Up to 189 LPM - 50 GPM
Initial UV Dose	Temperature Dependent 38 mJ/cm2@ 300 LPM / 79.2 GPM 40 mJ/cm2@ 275 LPM / 72.6 GPM 230 mJ/cm2@ 50 LPM / 13.1GPM	186 mJ/cm2 @ 95 % UVT	36 mJ/cm2 @ 95 % UVT	40 mJ/cm2 @ 50 % UVT
Electrical	240 Volt AC / 50 - 60 Hz	208 V 3 phase	110 - 240 Volt AC / 50 - 60 Hz	110 - 240 Volt AC / 50 - 60 Hz
Ballast Enclosure	Electronic Ballast w/ Lamp Out Alarm, Power LED in NEMA IV Enclosure, IP64	63 x Electronic Ballast in NEMA IV Enclosure, IP64	Electronic Ballast w/ Lamp Out Alarm, Power LED in C1D2 Rated Enclosure Heat Tracing Available For Use In Sub-Zero Environments	Electronic Ballast w/ Lamp Out Alarm, Power LED in NEMA IV Enclosure, IP64 Integrated UV Monitor
UV Lamp	Low-Pressure Amalgam 172 Watts, 660 mA (Part # RL-172/843T6HVA)	Low-Pressure UVC @ 110 Watts, 800 mA (Part# RL-110/1197T5) x 63	Low-Pressure UVC @110 Watts, 800 mA (Part# RL-110/1197T5)	Low-Pressure UVC @ 44 Watts, 800 mA (Part# RL-44/436T5) x 4
Min/Max Oper. Temparature	Tmin. = 3 °C (37 °F), Tmax. = 60°C (140 °F)	Tmin. = 3 °C (37 °F), Tmax. = 37 °C (99 °F)	Tmin. = 3 °C (37 °F), Tmax. = 37 °C (99 °F)	Tmin. = 3 °C (37 °F), Tmax. = 40 °C (104 °F)
Max. Operating Pressure	125 psi - 8.6 bar	125 psi - 8.6 bar	125 psi - 8.6 bar	125 psi - 8.6 bar
Chamber Material	316L SS	316L SS	316L SS	316L SS
Plumbing	1-1/2" MNPT In/Out	8" Flange In/Out	3" Flange In/Out	1-1/4" MNPT In/Out

Upper Room Germicidal UV Systems	**Model UV-Air250** 	**Model UV-Air1500** 
Coverage Area	Approx. 120 - 150 sq. ft. / 11 - 14 m2 per unit	Approx. 500 - 6250 sq. ft. / 46.5 - 58 m2 per unit
Electrical	120 Volt AC / 50 - 60 Hz	120 Volt AC / 50 - 60 Hz
UV Lamp	Low-Pressure UVC @ 21 Watts, 425 mA (Part# RL-23/436T5)	Low-Pressure UVC @ 88Watts, 800 mA (Part# RL-110/1197T5)
Ballast	Electronic Ballast Part # 4-BE-425-ECO	Electronic Ballast Part # 4-BE800-ECO

UV System Consumables and Replacement Parts

Wyckomar UV Replacement Lamps and Replacement Quartz Sleeves and Domes, Electronic Ballasts and UV Monitoring Systems are high quality parts that ensure proper and reliable operation of the UV Disinfection System.

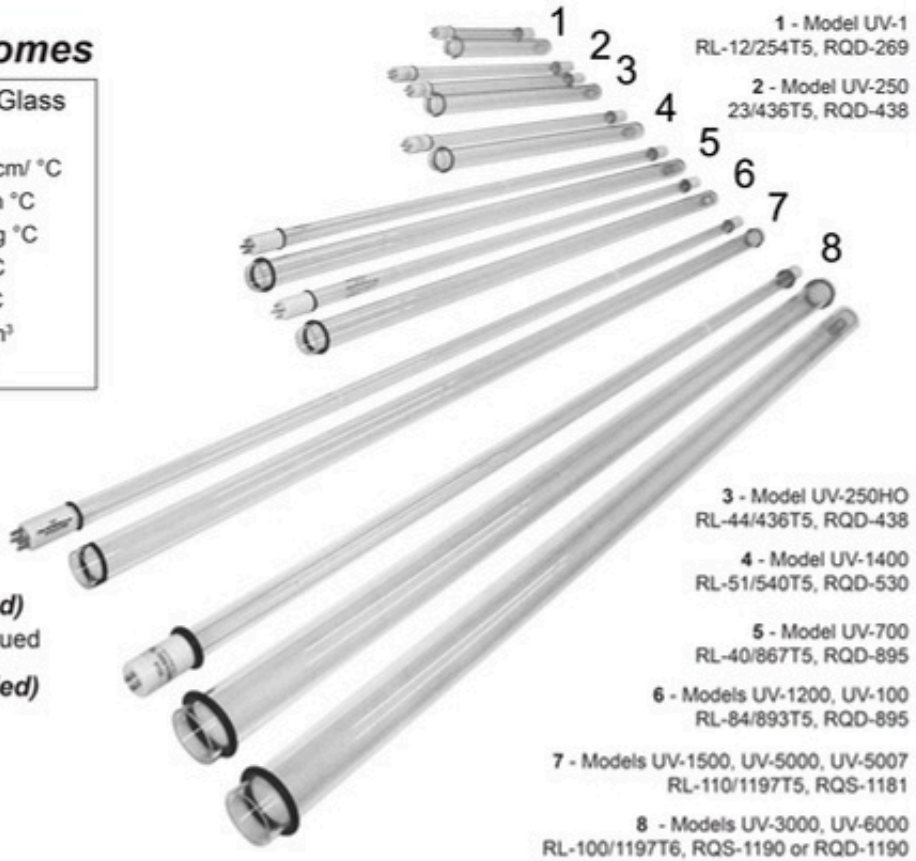
SPECIFICATIONS

Wyckomar UV Replacement Lamps (T5 and T6)

Part#	Length mm	Length in	Power Consumption	Current	Volts @ 60Hz	UVC Watts at 254nm	UVC /cm² at 1M	Rated Life (Hrs)
RL-12/254T5	254	10.0	18 VA @ 110V 23 VA @ 230V	425 mA	38	3.5	30	11,000
RL-23/436T5	436	17.1	29 VA @ 110V 35 VA @ 230V	425 mA	66	7	69	11,000
RL-44/436T5	436	17.1	57 VA @ 110V 72 VA @ 230V	800 mA	60	13	120	11,000
RL-51/540T5	540	21.2		800 mA	72	17	160	11,000
RL-40/867T5	867	34.1	53 VA @ 110V 66 VA @ 230V	425 mA	115.9	14	144.6	11,000
RL-84/893T5	893	35.1	70 VA @ 110V 84 VA @ 230V	800 mA	120	30	270	11,000
RL-110/1197T5	1197	47.1	102 VA @ 110V 107 VA @ 230V	800 mA	176.6	36.9	315.4	11,000
RL-100/1197T6	1197	47.1	85 VA @ 110V 89 VA @ 230V	800 mA	160	35	300	11,000

Quartz Sleeves / Domes

Type	Fused Glass
Colour	Clear
Thermal Expansion	5.5 10^{-7}cm/ °C
Therm. Conductivity	1.4 W/m °C
Specific Heat	670 J/kg °C
Softening Point	1683 °C
Strain Point	1120 °C
Density	2.2 kg/m³
Refraction Index	1.4585



1 - Model UV-1
RL-12/254T5, RQD-269

2 - Model UV-250
23/436T5, RQD-438

3 - Model UV-250HO
RL-44/436T5, RQD-438

4 - Model UV-1400
RL-51/540T5, RQD-530

5 - Model UV-700
RL-40/867T5, RQD-895

6 - Models UV-1200, UV-100
RL-84/893T5, RQD-895

7 - Models UV-1500, UV-5000, UV-5007
RL-110/1197T5, RQS-1181

8 - Models UV-3000, UV-6000
RL-100/1197T6, RQS-1190 or RQD-1190

Other types of UV lamps not listed here

T8 Lamp (2pin Double-Ended)
T8 Lamps have been discontinued

T12 Lamp (2pin Double-Ended)
RL-30/60T12

Amalgam UV Lamp
RL-172/843T6HVA

Specifications may be subject to change

SPECIFICATIONS

Wyckomar Electronic Ballasts

Part #	Lamp Type	Input Voltage	Lamp Current	LEDs	Lamp Out Alarm	Sole-noid Output	Volt-Free Contacts	Timer
BE-425-ECO-R (RH51-425-40L) BE-425D-ECO (ZUM1-425-55)	RL-12/254T5 RL-23/436T5 RL-40/867T5	Univ. Voltage 110-240 VAC 50/60 Hz	390-430 mA 380-430 mA	Power Lamp Out	Yes Yes	No No	No Yes	Days Up/Down Resettable
BE800-ECO (RH51-800-95L) BE800D-ECO (ZUM1-800-120)	RL-44/436T5 RL-84/893T5 RL-110/1197T5	Univ. Voltage 110-240 VAC 50/60 Hz	750-850 mA 800-900 mA	Power Lamp Out	Yes Yes	No No	No Yes	Days Up/Down Resettable
BE800-14ECO (RH51-800-95L)	RL-51/540T5	Univ. Voltage 110-240 VAC 50/60 Hz	750-850 mA	Power Lamp Out	Yes	No	No	Days Up/Down Resettable
BE800D-30/60ECO (RH51-800-95L) BE800D-30/60ECO (ZUM1-800-120)	RL-100/1197T6	Univ. Voltage 110-240 VAC 50/60 Hz	750-850 mA 800-900 mA	Power Lamp Out	Yes Yes	No No	No Yes	Days Up/Down Resettable
4-13PN Board only	RL-44/436T5 RL-84/893T5 RL-110/1197T5 RL-100/1197T6	110-240 VAC 50/60 Hz	800 mA	No	Yes	Opt.	Opt.	No
BE-12VP1	RL12/254T5	12 VDC	425 mA	Power	Yes	No	No	No
BE-12VP250	RL-23/436T5	12V DC	425 mA	Power	Yes	No	No	No

Wyckomar UV Monitoring Systems

Part #	System	Input Voltage	Power	Low UV-Dose Alarm	Display Type/ Display Value	Trip Point	Wet Contacts (Solenoid Output)	Dry (Volt-Free) Contacts	4-20 mA Output	0-1 Volt 1-5 Volt Output
UV/MS-1 V3	all systems	110-240 VAC 50/60 Hz	2.6 VA	Yes	Analog 0-100%	Set at 70%	Yes - N/O (switch w/ jumper to N/C)	Opt. with breakout-box UV/MS/WDE	Opt.	0-1V Opt.
UV/MS-HM3	all systems	110-240 VAC 50/60 Hz	3.1 VA	Yes	Digital 0-100% mJ/cm^2	Set at 70%	Yes Opt.	Yes Opt.	Yes	1-5V Yes

Water Filtration and Special Treatment Systems

Sediment and carbon micro filtration is standard treatment for drinking water purification and there are filter sets designed for the Wyckomar UV Systems.

Wyckomar is adept at building water filtration sytems for a variety of water quality applications, including disinfection, filtration and softening. We can supply systems in almost any flow rate, in compact and efficient skid-mounted configurations for ease of transport and installation on site.

Wyckomar UV Purification Systems

Filter Housings

Heavy-duty construction, made from FDA grade polypropylene or Stainless Steel for a wide range of pipe fittings

Flow rates shown are guidelines only. Actual flow depends on cartridge and micron rating, source water quality and general parameters of the application

					
Size Material (Type)	**Standard Plastic Housings (SlimLine)**	**Full-Flow Plastic Housings (BigBlue)**	**High Performance Heavy Duty Stainless Steel Housings (Multi Cartridge) (Jumbo JCH)**	**High Flow Non-Metallic (BigBubba)**	**Backwashable** Single or Dual Tank Backwashing Valve
Bowl/Tank Size	10" 20"	10" 20"	4x30" 5x40" 40" 90" 170"	40"	Single Tank Systems w/ Heavy Duty Media Tank and Automatic Backwashing Valve 120V Dual Tank Systems w/ Contact Tank, Mineral Tank and Automatic Backwashing Valve 120V Service Flow Rates 5 - 100 GPM In/Out 1", 2", 3" Media for • Sediment • Chlorine • Hydrogen Sulfur • Iron, Manganese Reduction
Bowl/Tank Ø	5"	7"	6.75" 8.75" 18.5"	11"	
In/Out	3/4" 3/4" + 1"	1" + 1.5" 1" + 1.5"	2""	2"	
Pr. Relief	Yes Yes	Yes Yes	1/2" Drain	Yes	
MIn/Max Temp	Tmin. = 4.4 °C (40 °F) Tmax. = 52 °C (125 °F)	Tmin. = 4.4 °C (40 °F) Tmax. = 52 °C (125 °F)	Tmax. = 121 °C (250 °F)	Tmax. = 80 °C (175 °F)	
Pressure Rating	125 psi - 8.6 bar	90 psi - 6.3 bar	150 psi - 106 bar	125 psi - 8.6 bar	
Material	Polypropylene FDA Grade	Polypropylene FDA Grade	Stainless Steel 304 / 316	Glass-Reinforced Polypropylene	
Oring	EPDM	EPDM	Buna-N or Viton	EPDM	
Pressure Drop	< 5 PSI	< 3 PSI	< 1 PSI	< 15 PSI	

Filter Sets

Filtration systems typically comprise of 2 filters, one for solids and one for dissolved contaminants.

					
Size Type	**10" SlimLine SYS1-FS SYS250-FS**	**20" SlimLine SYS700-FS**	**10" BigBlue SYS1400-FS**	**20" BigBlue SYS1200-FS SYS1500-FS**	**20" BigBlue x 2 x 3 SYS3000-FS**
In/Out	3/8" 3/4"	3/4" 1"	1"	1"	1.5"
Flow Rate	1 GPM 4 GPM	8 GPM 10 GPM	14 GPM	15 GPM	30 GPM

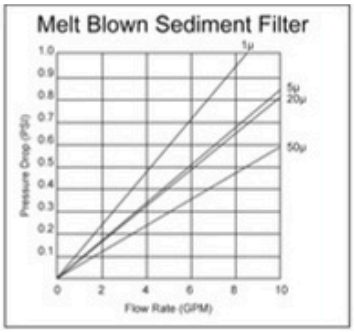
Filter Cartridges for Sediment and Particulate Removal

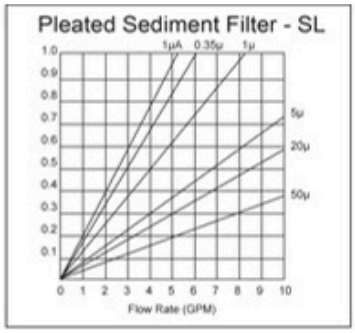
Sediment filters are physically removing solid contaminants such as rust and dirt from water. Melt Blown Polypropylene filter cartridges are for standard applications, Pleated Cell PP filter cartridges are used for higher flow rates.

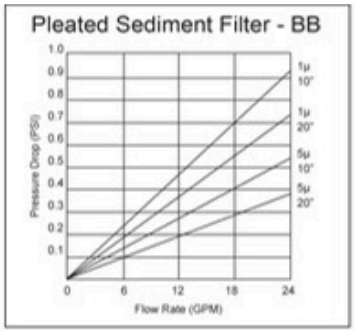
Flow rates shown are guidelines only. Actual flow depends on cartridge and micron rating, source water quality and general parameters of the application

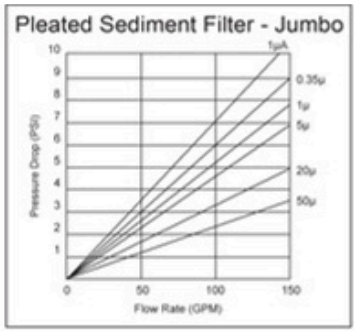
							
Type	**Standard (SlimLine)** Melt Blown	**Standard (SlimLine)** Pleated	**Full-Flow (BigBlue)** Melt Blown	**Full-Flow (Big Blue)** Pleated	**High Duty (Multi Cart.)** Pleated	**High Duty (Jumbo)** Pleated Cell	**High Flow (BigBubba)** Pleated
Diam	Ø 2.5"	Ø 2.5"	Ø 4.5"	Ø 4.5"	Ø 2.5"	Ø 7.75"	Ø 5.75"
Length	10" 20"	10" 20" 30" 40"	10" 20"	10" 20"	30" (x4) 40" (x5)	JCH90: 19.5" JCH170: 30.625"	31.5"
Flow Rate (GPM) at 5µ	4 8	7 14 21 30	6 12	15 25	90 150	50 100 150	150
Micron Rating	10": 1µ, 5µ 20": 1µ, 5µ, 20µ, 50µ	10": 1µ, 5µ, 20µ 20": 1Aµ, 5µ, 20µ	1µ, 5µ, 20µ	1µ, 5µ, 20µ, 50µ	1µ, 5µ, 20µ, 50µ	5µ, 20µ, 50µ	1Aµ, 1µ, 5µ, 20µ, 50µ
Mln/Max Temp	Tmin: 4.4 °C (40 °F) Tmax: 60 °C (140 °F)	Tmin: 4.4 °C (40 °F) Tmax: 60 °C (140 °F)	Tmin: 4.4 °C (40 °F) Tmax: 60 °C (140 °F)	Tmin: 4.4 °C (40 °F) Tmax: 60 °C (140 °F)	Tmax: 121 °C (250 °F)	Tmin: 4.4 °C (40 °F) Tmax: 60 °C (140 °F)	Tmax: 80 °C (175 °F)
Pressure Rating	125 PSI 8.6 bar	125 PSI 8.6 bar	125 PSI 8.6 bar	125 PSI 8.6 bar	125 PSI 8.6 bar	150 PSI 106 bar	125 PSI 8.6 bar
Filter Media	Melt Blown / Spun Polypropylene	Pleated Cell Polypropylene/ Polyester	Melt Blown / Spun Polypropylene	Pleated Cell Polypropylene/ Polyester	Pleated Cell Polypropylene/ Polyester	Synthetic Media Cellulose Free	Polypropylene/ Polyester
Pressure Drop	< 1 PSI	< 1 PSI	< 1 PSI	< 1 PSI	< 1 PSI	< 10 PSI	< 15 PSI

Pressure Drop Charts









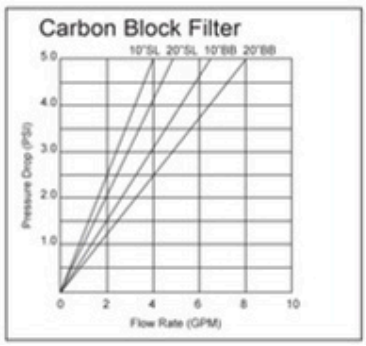
Filter Cartridges for Chlorine, Taste and Odour Reduction

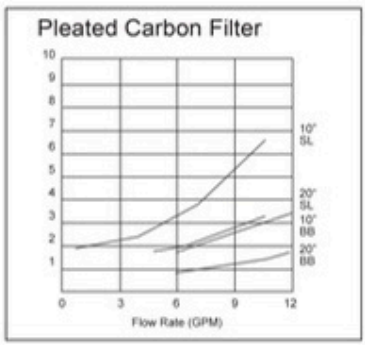
Chlorine and other minerals and heavy metals are dissolved in water and can not be removed with retention filters. Instead, ion exchange and a chemical reaction based on adsorptive retention are used.

Flow rates shown are guidelines only. Actual flow depends on cartridge and micron rating, source water quality and general parameters of the application

						
Type	**Standard (SlimLine) CarbonBlock**	**Standard (SlimLine) PleatedCarbon**	**Full-Flow (BigBlue) CarbonBlock**	**Full-Flow (Big Blue) PleatedCarbon**	**High Duty (Multi Cart.) CarbonBlock**	**High Flow (BigBubba) PleatedCarbon**
Diam.	Ø 2.5"	Ø 2.5"	Ø 4.5"	Ø 4.5"	Ø 2.5"	Ø 5.75"
Length	10" 20"	10" 20"	10" 20"	10" 20"	30" (x4) 40" (x5)	26.25 Media 31" Total
Flow Rate (GPM) at 5µ	4 6	7 9	7 9	11 13	90 150	15
Micron Rating	5µ	10µ	5µ	10µ	5µ	10µ
MIn/Max Temp	Tmin: 10 °C (50 °F) Tmax: 52 °C (125 °F)	Tmin: 4.4 °C (40 °F) Tmax: 60 °C (140 °F)	Tmin: 10 °C (50 °F) Tmax: 52 °C (125 °F)	Tmin: 4.4 °C (40 °F) Tmax: 60 °C (140 °F)	Tmin: 10 °C (50 °F) Tmax: 52 °C (125 °F)	Tmax: 60 °C (140 °F)
Chlorine Reduction	10": > 4000 Gal 20": > 8000 Gal	10": > 225 Gal 20": > 500 Gal	10": > 10000 Gal 20": > 20000 Gal	10": > 450 Gal 20": > 1000 Gal	30": > 9000 Gal ea. 40": > 12000 Gal ea.	
Pressure Rating	125 PSI 8.6 bar	125 PSI 8.6 bar	125 PSI 8.6 bar	125 PSI 8.6 bar	125 PSI 8.6 bar	125 PSI 8.6 bar
Filter Media	Coconut Shell Carbon	Carbon Impregnated Polyester	Coconut Shell Carbon	Carbon Impregnated Polyester	Coconut Shell Carbon	Activated Carbon
Pressure Drop	< 5 PSI	< 6 PSI	< 5 PSI	< 3 PSI	< 5 PSI	< 15 PSI

Pressure Drop Charts





AquaFlow™ Whole-House Salt Free Water Descaler

The AquaFlow™ is a water conditioning system designed to reduce the effects of hard water, specifically scale deposits that form on surfaces such as bathtubs, sinks, and shower walls. It employs a galvanic water treatment process to prevent and reduce the formation of lime-scale buildup. by using a magnetic field to alter the behavior of mineral particles in the water, keeping them suspended rather than allowing them to accumulate on surfaces.

As water flows through the stainless steel chamber, the device generates a small galvanic current. This current changes the crystalline structure of minerals dissolved in the water. As a result, these minerals no longer form hard scale deposits on the surfaces they contact.

Importantly, this process will not alter the chemical composition of the water. Instead, it changes the physical structure of the minerals. For example, calcite, which easily adheres to surfaces, is converted into aragonite, a form that remains dissolved in water and does not precipitate as scale.

While the AquaFlow™ Descaler does not reduce water hardness, it effectively mitigates the problems typically caused by hard water.

The system operates without an external power source, requires no maintenance, and does not rely on chemical additives.

Product Name	AquaFlow™ Whole House Water Descaler
Product Model	AFD-1
Scaling Principle	Pure Physical Ion Polarization
Inlet & Outlet	DN25 / 1” Female tapered thread
Chamber Material	304 Stainless Steel
Installation Method	Horizontal or Vertical
Water Quality	Municipal Tap Water
Recommended Water Properties:	
pH	6.5 - 8.5
Hardness	< 25^0 DH / 466 mg/L / 25 gpg
TDS	< 1000 ppm
Iron(Fe)	< 2 mg/L
Turbidity	< 1 NTU
Plumbing Pipe	CPVC / PVC / PEX / Copper / PPR
Application Pressure	0.15 - 1 MPa / 22 - 145 psi / 1.5 - 10 bar
Temperature Range	Tmin. = 5 °C (41 °F), Tmax. = 100 °C (212 °F)
Rated Flow	4 m^3/h / 67 LPM / 17 GPM
Expected min. Lifetime	10 Years
Product Size	155 mm X 54 mm / 10” X 2-1/8”
Shipping Weight	3 lbs / 1.5 kg

Specifications subject to change

Quality Assurance

Production Standards

Our steel is produced by companies that are following the ASTM Standards which ensures the quality, safety, and reliability of steel products. These standards establish criteria for chemical composition, mechanical properties, and test methods.

QA Implementation

Our QA activities include developing quality standards and procedures, conducting audits and reviews of processes, providing training on quality management principles, implementing continuous improvement initiatives and ensuring compliance with regulatory requirements.

We are following planned activities with clearly laid out operational techniques, always monitoring the activities and making sure all is perfect before the product is shipped out.

Customer Support

Wyckomar provides complete customer support for all of our products. Our support services are available via email and by phone. We can also provide advice and guidance on installation and system selection as required.

Partner With Us

As a Wyckomar Partner you are eligible to receive substantial reseller discounts on all Wyckomar products.

Exclusive pricing and terrorities

We strive to make all Dealer relationships frictionless and long-lasting. Our continued success depends on your success as a Dealer of our high-quality water treatment products. Dealers are also eligible to earn commissions on referrals for custom water treatment systems.

Marketing and training support

Wyckomar offers marketing and training materials that may be used by Dealers in order to promote the Wyckomar line of UV systems.

Dedicated account managers

We handle all shipping and logistics issues to get products to you quickly and safely.

Get started today. Get in touch with us to become a dealer or installer.

Testimonials

Excerpts of testimonials we are receiving as appreciation for our customer service throughout the years.

“Thanks for the great service over the years.”

“Thank you Wyckomar! My system is back up and running and it's been a pleasure doing business with you.”

“I followed your instructions to the letter. It worked perfectly.”

“Hello Wyckomar, Thanks very much for your assistance. The upgrade of my purification system will make a huge difference in the quality of my water.”

“Thanks! I made connection and got what I needed. Thanks so much for your very prompt reply.”

“Thank you for the order, talk about fast, we received the package yesterday.”

“Have a great day and again thank you for going the extra mile, you were a pleasure to deal with.”

“Thank you so much for all your help. You gave me excellent customer service. Everything worked out our water is once again treated.”

“Thanks for all your help...Your after sales service is MUCH appreciated.”

“Keep up the good work a company to be proud of. Take care and thanks for taking time to help me.”

Stay Connected

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