

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***





UV-1200

Ultra Violet Water Sterilizer

Description

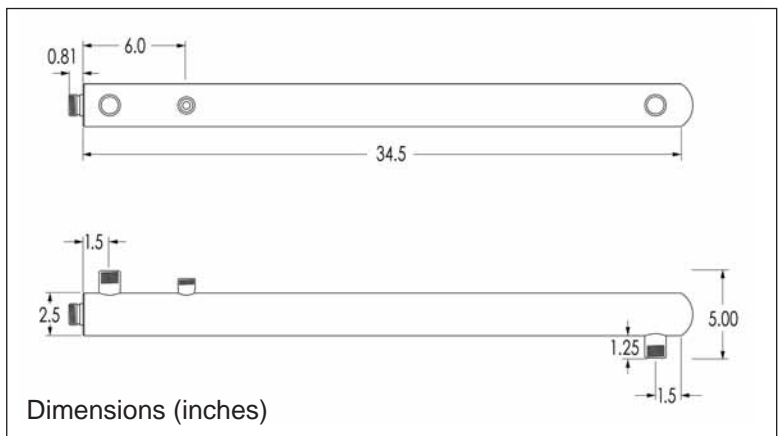
The UV-1200 is a robust, high quality ultra-violet sterilizer designed for the disinfection of drinking water in the larger house where there is a 1" line, at a flow rate of 12 GPM (45 LPM). Typically installed at the point of entry, it can treat municipal water as well as ground water from drilled or dug wells, and surface water from lakes, ponds or rivers. Other applications for this sterilizer are for the purification of drinking and process water in small commercial applications.

This sterilizer contains a low-pressure, high output UV lamp in a 304L stainless steel reaction chamber (also available in 316L). It comes with an electronic ballast that features a lamp-out alarm if there is no power to the lamp.

Combined with a Wyckomar filter set, this sterilizer is 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 (see part # SYS1200-QD4E-1/2).

Additional features for this sterilizer can be ordered, such as a thermo-sensitive purge valve at the out port to prevent overheating in no-flow conditions, or volt-free contacts on the ballast for remote signaling.

The UV-1200 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 99.99% (log 4) or more (*Giardia*, *E. coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Applications

- ▶ Potable Water
- ▶ Whole House Water Treatment (8-10 People)
- ▶ Small Commercial Applications
- ▶ Coffee Shops, Hair Salons
- ▶ Doctor's Offices
- ▶ Pharmaceutical Manufacturing

Benefits

- ▶ Efficient Disinfection, Low Cost per Litre
- ▶ High UV Dose for Peace of Mind
- ▶ Easy Installation
- ▶ Extremely Simple to Use and Maintain
- ▶ Easy Lamp Replacement
- ▶ High Quality Stainless Steel Reaction Chamber
- ▶ Domed Quartz Sleeve with Single Seal
- ▶ Made in Canada



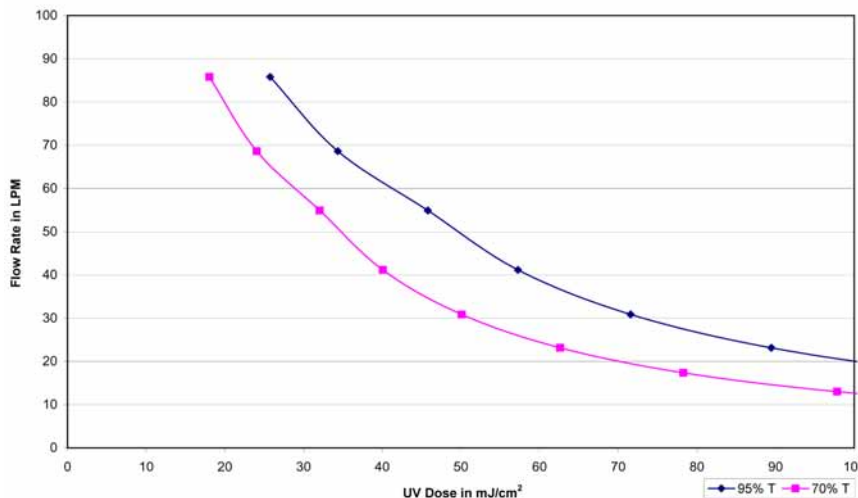
Specifications

Part # P1200/QD4E-1/2

Rated Flow:	45 litres per minute (12 GPM) 2700 litres/hour, 64.8 m ³ /day (720 gallons/hour, 17,280 gallons/day)
Initial UV Dose at Rated Flow:	54 mJ/cm ² (54,000 µsec/cm ²) @ 95% UVT 38 mJ/cm ² (38,000 µsec/cm ²) @ 70% UVT
Electrical:	110-130 Volt AC / 50-60 Hz (Part # P1200/QD4E-1) 220-240 Volt AC / 50-60 Hz (Part # P1200/QD4E-2)
Power Consumption:	70 VA @ 120 V, 84 VA @ 240 V
Ballast:	Electronic Ballast (Part # 4-BE-800WL-1/2) w/ Lamp Out Alarm, Power LED
Number of Lamps:	1 (Part # RL-84/893T5)
Lamp Wattage and Current:	84 Watts, 800 mA
UV Monitor:	Optional (Part # 4-UV/MS-1/2)
Solenoid Valve:	Optional (Part # 4-SV-1000-1)
Hour Meter:	Optional (Part # 4-HM-R100)
Max. Operating Temperature:	37 °C (98.6 °F)
Max. Operating Pressure:	125 psi - 8.6 bar (tested to 500 psi)
Plumbing:	1" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L SS optional)
Shipping Size and Weight:	1 box 45x7x7 inches, 12 lbs / 5.5 kg

Dose Chart

UV-1200 UV Dose Response Curve



Additional Features (Optional):

- Electronic Deposit Control System with PVC or Stainless Reaction Chamber
- Volt-Free Contacts on Ballast for Remote Signaling
- Purge Valve at Out Port for Overheat Protection
- Ballast with Hour Meter for Total Runtime Display
- Pre-Assembled and Panel Mounted for Easy Installation

Filtration

This UV sterilizer assumes 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 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

This UV unit is available as complete system with appropriate pre-filtration (Part # SYS1200/QD4E-1/2) or as a pre-assembled All-in-One system for 'plug-and-play' installation (Part # SYS-MD1004-1/2)



SYS1200

Water Treatment System

Description

The SYS1200 is an All-in-One Water Treatment System that is sized for the needs of the bigger household (up to 10 people) to provide complete purified drinking water for domestic use. Typically installed at the point of entry, it is used for treating municipal water as well as ground water from drilled or dug wells, and surface water from lakes, ponds or rivers. 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 odour, including sulphur smell and chlorine residuals, as well as cysts. 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 > 99.99% (log4) (*Giardia*, *E. coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others)

This purifier comes equipped with an electronic ballast that features an alarm system which sounds an audible alarm if the UV lamp is not functioning properly.

All installation hardware (mounting brackets, filter wrench and S-pipe for the connection between filtration and UV) are supplied with the system. Shutoffs are not supplied and are optional, depending on the plumbing set-up.

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.



Similar to image.
Shutoffs shown are not supplied

Features

- ▶ Chemical-Free Water Treatment
- ▶ Robust Construction, Pre-Assembled
- ▶ 20" BigBlue Sediment + Carbon Filtration
- ▶ Filter Housings with Pressure Relief Valves
- ▶ 304L SS Ultra-Violet Sterilizer
- ▶ Electronic Ballast with Lamp-Out Alarm



The system ships complete with all necessary components and installation hardware

Benefits

- ▶ Efficient Disinfection, Low Cost per Litre
- ▶ High UV Dose for Peace of Mind
- ▶ Extremely Simple to Use and Maintain
- ▶ Pre-Assembled Filter Set for Easy Installation
- ▶ Ideal for Use in Households up to 10 People

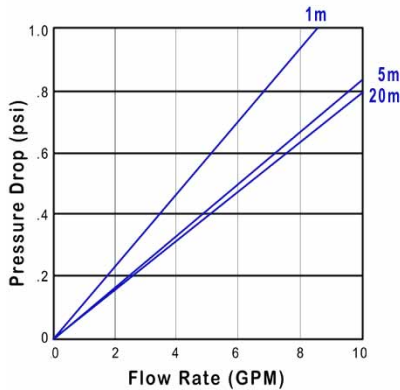


Rated Flow:	45 litres per minute (12 GPM) 2,700 litres/hour, 64.8 m ³ /day (720 gallons/hour, 17,280 gallons/day)
Initial UV Dose at Rated Flow:	54 mJ/cm ² (54,000 µsec/cm ²) @ 95% UVT 38 mJ/cm ² (38,000 µsec/cm ²) @ 70% UVT
Electrical:	110-130 Volt AC / 50-60 Hz (Part # SYS1200/QD4E-1) 220-240 Volt AC / 50-60 Hz (Part # SYS1200/QD4E-2)
Power Consumption:	70 VA @ 120 V, 84 VA @ 240 V
Ballast:	Electronic Ballast (Part # 4-BE-800WL-1/2) w/ Lamp Out Alarm, Power LED
Replacement Lamp:	Low-Pressure UV Lamp, Part # RL-84/893T5
Filtration:	20" BigBlue (L 20", OD 4-1/2"), w/ Pressure Relief
Stage 1, Sediment Filter:	Melt-Blown Polypropylene ("Spun Poly"), 5 Micron
Stage 2, Carbon Filter:	Coconut Shell Carbon ("Extruded Carbon Block")
Connection betw. UV and Filter (S-Pipe):	PVC S-Pipe (Part # 6-1250) (SS Optional)
Max. Operating Temperature:	37 °C (98.6 °F)
Max. Operating Pressure:	125 psi - 8.6 bar (tested to 500 psi)
Plumbing:	1" MNPT In/Out
Shipping Size and Weight:	1 box 45x7x7 inches, 12 lbs / 5.5 kg 1 box 26x17x7 inches, 16 lbs / 7.3 kg

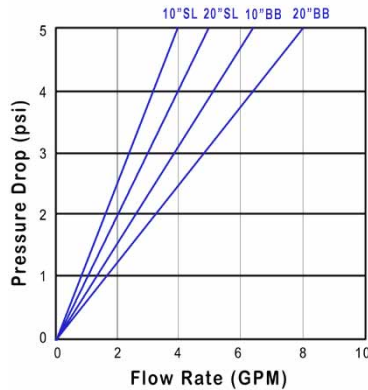
Pressure Drop Charts

The filter cartridges in this system have a great surface area for long life and reduced filtration costs.

Sediment Filter



Carbon Block Filter



Additional Features (Optional):

- Electronic Deposit Control System with PVC or Stainless Reaction Chamber
- Additional Sediment Filtration with Spin Down Separator for Lake Water Applications
- Purge Valve at Out Port for Overheat Protection
- Ballast with Hour Meter for Total Runtime Display

Filtration

This UV System comes equipped with dual pre-filtration. The water first enters the sediment filter housing, where a sediment filter cartridge (made from melt-blown Polypropylene) removes dirt, rust and other sediments down to 5 micron (cartridge Part # 14-WFS20BB-5SP). This is followed by a second filter housing with a carbon block filter cartridge at 10 micron (made from Coconut Shell Carbon), which removes chlorine, taste and odour from the water (cartridge Part # 14-WFC20BB-5CB). The filter cartridges are NSF certified and have an excellent chemical resistance in all food and beverage purification applications and a low pressure drop.

Additional filtration stages can be installed, such as a self-cleaning Spin Down Separator that keeps the filter cartridges from clogging up if elevated sediment levels are present (Part # 13-SDF-2).





UV-1500

Ultra Violet Water Sterilizer

Description

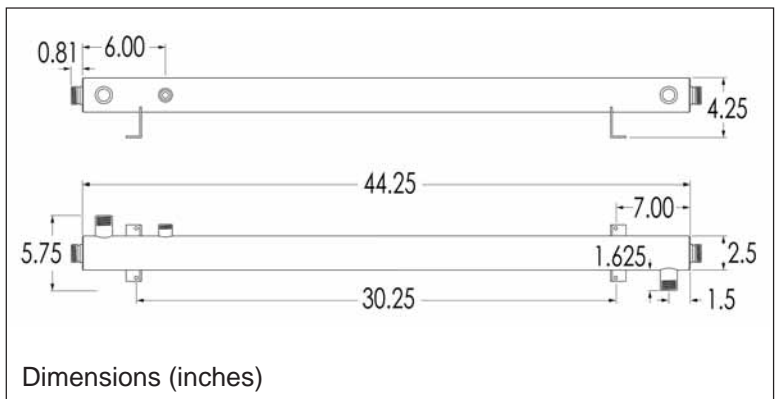
The UV-1500 is a robust, high quality ultra-violet sterilizer that offers very efficient treatment at a low cost per unit volume. Typically installed at the point of entry, it can treat municipal water as well as ground water from drilled or dug wells, or surface water from lakes, ponds or rivers (pre-filtration necessary). This sterilizer is perfectly sized to provide drinking water or purified process water for large houses and mansions, as well as for commercial and light industrial applications.

The UV-1500 contains a low-pressure, high output UV lamp in a 304L stainless steel reaction chamber (316L available). It comes with an electronic ballast that features a lamp-out alarm if there is no power to the lamp.

Combined with appropriate pre-filtration, this sterilizer is 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.

Additional features for this sterilizer can be ordered, such as a UV-monitoring system for fail-safe operation, a thermo-sensitive purge valve at the out port to prevent overheating in no-flow conditions, or volt-free contacts on the ballasts for remote signaling.

The UV-3000 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 99.99% (log 4) or more (*Giardia*, *E. coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Applications

- ▶ Potable Water, Process Water
- ▶ Commercial and Light Industrial Applications
- ▶ Pharmaceutical Manufacturing
- ▶ Butcher Shops
- ▶ Hotels and Restaurants
- ▶ Pools and Spa's
- ▶ Food and Beverage Processing

Benefits

- ▶ Efficient Disinfection, Low Cost per Litre
- ▶ Exceptional High UV Dose
- ▶ Extremely Simple to Use and Maintain
- ▶ High Quality Stainless Steel Reaction Chamber
- ▶ Easily Upgradeable with Optional Features
- ▶ Made in Canada



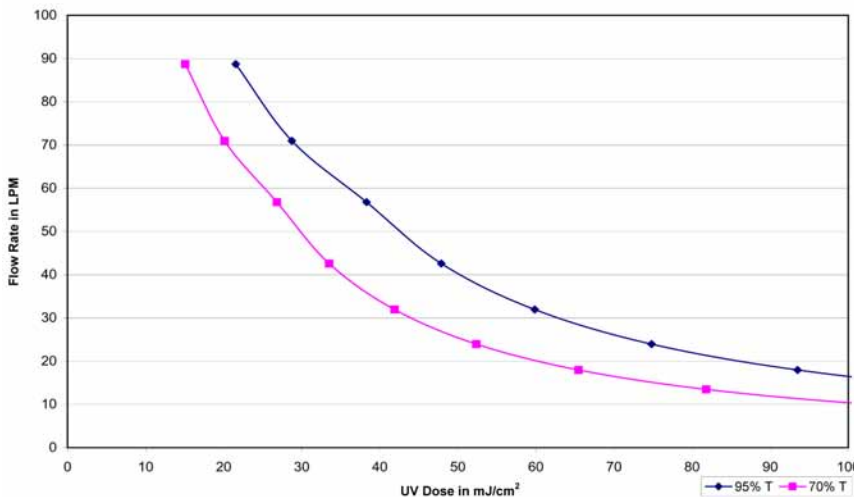
Specifications

Part # P1500/QS4E-1/2

Rated Flow:	57 litres per minute (15 GPM) 3420 litres (3.4 m ³)/hour, 82 m ³ /day (900 gallons/hour, 21,600 gallons/day)
Initial UV Dose at Rated Flow:	42 mJ/cm ² (42,000 µsec/cm ²) @ 95% UVT 27 mJ/cm ² (27,000 µsec/cm ²) @ 70% UVT
Electrical:	110-130 Volt AC / 50-60 Hz (Part # P1500/QS4E-1) 220-240 Volt AC / 50-60 Hz (Part # P1500/QS4E-2)
Power Consumption:	102 VA @ 120 V, 107 VA @ 240 V
Ballast:	Electronic Ballast (Part # 4-BE-800WL-1/2) w/ Lamp Out Alarm, Power LED
Number of Lamps:	1 (Part # RL-110/1197T5)
Lamp Wattage and Current:	110 Watts, 800 mA
UV Monitor:	Optional (Part # 4-UV/MS-1/2)
Solenoid Valve:	Optional (Part # 4-SV-1000-1)
Hour Meter:	Optional (Part # 4-HM-R100)
Max. Operating Temperature:	37 °C (98.6 °F)
Max. Operating Pressure:	125 psi - 8.6 bar (tested to 500 psi)
Plumbing:	1" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L available)
Shipping Size and Weight:	1 box 52x9x9 inches, 17 lbs / 7.8 kg

Dose Chart

UV-1500 UV Dose Response Curve



Additional Features (Optional):

- Electronic Deposit Control System with PVC or Stainless Reaction Chamber
- Volt-Free Contacts on Ballast for Remote Signaling
- Purge Valve at Out Port for Overheat Protection
- Ballast with Hour Meter for Total Runtime Display
- Rack- or Skid-Mounted for Easy Installation

Filtration

This UV sterilizer assumes 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 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

This UV unit is available as complete system with appropriate pre-filtration (Part # SYS1500/QS4E-1/2) and can be customized for many applications with pre-filtration into All-in-One rack mounted systems.





SYS1500

Water Treatment System

Description

The SYS1500 is an All-in-One Water Treatment System that is sized for the needs of the bigger household to provide complete purified drinking water for domestic use. Typically installed at the point of entry, it is used for treating municipal water as well as ground water from drilled or dug wells, and surface water from lakes, ponds or rivers. 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 odour, including sulphur smell and chlorine residuals, as well as cysts. 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 > 99.99% (log4) (*Giardia*, *E. coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others)

This purifier comes equipped with an electronic ballast that features an alarm system which sounds an audible alarm if the UV lamp is not functioning properly.

All installation hardware (mounting brackets, filter wrench and S-pipe for the connection between filtration and UV) are supplied with the system. Shutoffs are not supplied and are optional, depending on the plumbing set-up.

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.



Similar to image.
Shutoffs shown are not supplied

Features

- ▶ Chemical-Free Water Treatment
- ▶ Robust Construction
- ▶ 20" BigBlue Sediment + Carbon Filtration
- ▶ Filter Housings with Pressure Relief Valves
- ▶ 304L SS Ultra-Violet Sterilizer
- ▶ Electronic Ballast with Lamp-Out Alarm



The system ships complete with all necessary components and installation hardware

Benefits

- ▶ Efficient Disinfection, Low Cost per Litre
- ▶ High UV Dose for Peace of Mind
- ▶ Extremely Simple to Use and Maintain
- ▶ Pre-Assembled Filter Set for Easy Installation
- ▶ Ideal for Use in Light Commercial Applications

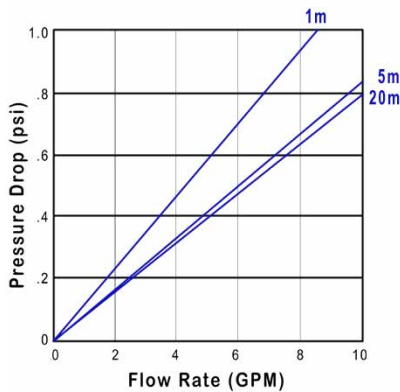


Rated Flow:	57 litres per minute (15 GPM) 3,420 litres/hour, 82 m ³ /day (900 gallons/hour, 21,600 gallons/day)
Initial UV Dose at Rated Flow:	42 mJ/cm ² (42,000 µsec/cm ²) @ 95% UVT 27 mJ/cm ² (27,000 µsec/cm ²) @ 70% UVT
Electrical:	110-130 Volt AC / 50-60 Hz (Part # SYS1500/QD4E-1) 220-240 Volt Ac / 50-60 Hz (Part # SYS1500/QD4E-2)
Power Consumption:	102 VA @ 120 V, 107 VA @ 240 V
Ballast:	Electronic Ballast (Part # 4-BE-800WL-1/2) w/ Lamp Out Alarm, Power LED
Replacement Lamp:	Low-Pressure UV Lamp, Part # RL-110/1197T5
Filtration:	20" BigBlue (L 20", OD 4-1/2") w/ Pressure Relief
Stage 1, Sediment Filter:	Melt-Blown Polypropylene ("Spun Poly"), 5 Micron
Stage 2, Carbon Filter:	Coconut Shell Carbon ("Extruded Carbon Block")
Connection betw. UV and Filter (S-Pipe):	PVC S-Pipe (Part # 6-1500) (SS Optional)
Max. Operating Temperature:	37 °C (98.6 °F)
Max. Operating Pressure:	125 psi - 8.6 bar (tested to 500 psi)
Plumbing:	1" MNPT In/Out
Shipping Size and Weight:	1 box 52x9x9 inches, 17 lbs / 7.7 kg 1 box 26x17x7 inches, 16 lbs / 7.3 kg

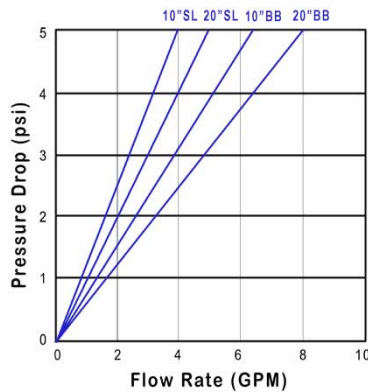
Pressure Drop Charts

The filter cartridges in this system have a great surface area for long life and reduced filtration costs.

Sediment Filter



Carbon Block Filter



Additional Features (Optional):

- Electronic Deposit Control System with PVC or Stainless Reaction Chamber
- Additional Sediment Filtration with Spin Down Separator for Lake Water Applications
- Purge Valve at Out Port for Overheat Protection
- Ballast with Hour Meter for Total Runtime Display

Filtration

This UV System comes equipped with dual pre-filtration. The water first enters the sediment filter housing, where a sediment filter cartridge (made from melt-blown Polypropylene) removes dirt, rust and other sediments down to 5 micron (cartridge Part # 14-WFS20BB-5SP). This is followed by a second filter housing with a carbon block filter cartridge at 10 micron (made from Coconut Shell Carbon), which removes chlorine, taste and odour from the water (cartridge Part # 14-WFC20BB-5CB). The filter cartridges are NSF certified and have an excellent chemical resistance in all food and beverage purification applications and a low pressure drop.

Additional filtration stages can be installed, such as a self-cleaning Spin Down Separator that keeps the filter cartridges from clogging up if elevated sediment levels are present (Part # 13-SDF-2).





UV-3000

Ultra Violet Water Sterilizer

Description

The UV-3000 is a robust, high quality ultra-violet sterilizer that offers very efficient treatment at a low cost per unit volume. Typically installed at the point of entry, it can treat municipal water as well as ground water from drilled or dug wells, and surface water from lakes, ponds or rivers (pre-filtration necessary). This sterilizer is perfectly sized to provide drinking water or purified process water for large houses and mansions, as well as for commercial and light industrial applications.

The UV-3000 contains a low-pressure, high output UV lamp in a 304L stainless steel reaction chamber (316L available). It comes with an electronic ballast that features a lamp-out alarm if there is no power to the lamp.

Combined with appropriate pre-filtration, this sterilizer is 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 (see part # SYS3000-QS4E-1/2).

Additional features for this sterilizer can be ordered, such as a UV-monitoring system for fail-safe operation, a thermo-sensitive purge valve at the out port to prevent overheating in no-flow conditions, or volt-free contacts on the ballasts for remote signaling.

The UV-3000 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 99.99% (log 4) or more (*Giardia*, *E. coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Applications

- ▶ Potable Water
- ▶ Health Clinics and Hospital Areas
- ▶ Herbal Medicine Production
- ▶ Hotels and Restaurants
- ▶ Fish Farming
- ▶ Pools and Spa's
- ▶ Food and Beverage Processing

Benefits

- ▶ Efficient Disinfection, Low Cost per Litre
- ▶ Exceptional High UV Dose
- ▶ Extremely Simple to Use and Maintain
- ▶ High Quality Stainless Steel Reaction Chamber
- ▶ Easily Upgradeable with Optional Features
- ▶ Made in Canada



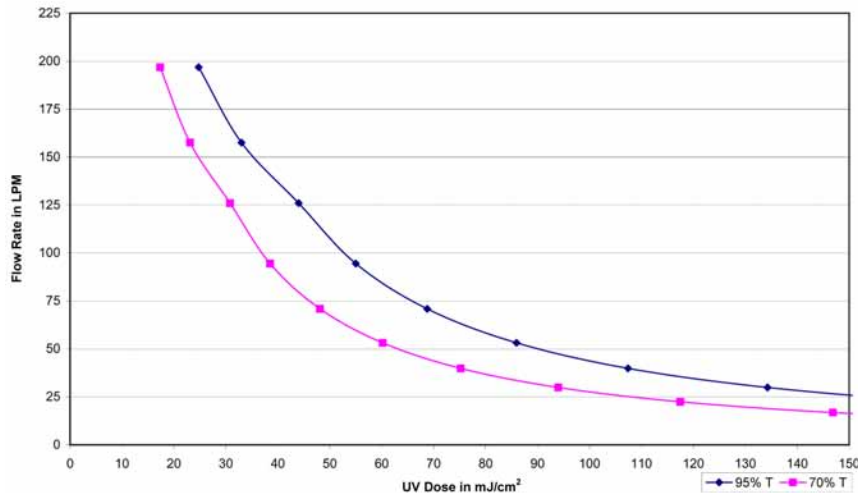
Specifications

Part # P3000/QS4E-1/2

Rated Flow:	113 litres per minute (30 GPM) 6780 litres (6.8 m ³)/hour, 162 m ³ /day (1,800 gallons/hour, 43,200 gallons/day)
Initial UV Dose at Rated Flow:	49 mJ/cm ² (49,000 µsec/cm ²) @ 95% UVT 34 mJ/cm ² (34,000 µsec/cm ²) @ 70% UVT
Electrical:	110-130 Volt AC / 50-60 Hz (Part # P3000/QS4E-1) 220-240 Volt AC / 50-60 Hz (Part # P3000/QS4E-2)
Power Consumption:	85 VA @ 120 V, 89 VA @ 240 V
Ballast:	Electronic Ballast (Part # 4-BE-800WL30-1/2) w/ Lamp Out Alarm, Power LED
Number of Lamps:	1 (Part # RL-100/1197T6)
Lamp Wattage and Current:	100 Watts, 800 mA
UV Monitor:	Optional (Part # 4-UV/MS-1/2)
Solenoid Valve:	Optional (part # 4-SV-1500-1)
Hour Meter:	Optional (Part # 4-HM-R100)
Max. Operating Temperature:	37 °C (98.6 °F)
Max. Operating Pressure:	125 psi - 8.6 bar (tested to 500 psi)
Plumbing:	1.5" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L available) (PVC available)
Shipping Size and Weight:	1 box 52x9x9 inches, 24 lbs / 11 kg

Dose Chart

UV-3000 UV Dose Response Curve



Additional Features (Optional):

- Electronic Deposit Control System with PVC or Stainless Reaction Chamber
- Volt-Free Contacts on Ballast for Remote Signaling
- Purge Valve at Out Port for Overheat Protection
- Ballast with Hour Meter for Total Runtime Display
- Panel- or Rack-Mounted for Easy Installation

Filtration

This UV sterilizer assumes 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 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

This UV unit can be manifolded in parallel for higher flow rates and can be customized for many applications with pre-filtration into All-in-One panel-mounted systems (Part # SYS-MD1006-1/2)



SYS3000

Water Treatment System

Description

The SYS3000 is an All-in-One Water Treatment System that is sized for the needs of commercial and light industrial applications to provide complete purified drinking or process water. Typically installed at the point of entry, it is used for treating municipal water as well as ground water from drilled or dug wells, and surface water from lakes, ponds or rivers. 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 odour, including sulphur smell and chlorine residuals, as well as cysts. 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 > 99.99% (log4) (*Giardia*, *E. coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others)

This purifier comes equipped with an electronic ballast that features an alarm system which sounds an audible alarm if the UV lamp is not functioning properly.

All installation hardware (mounting brackets, filter wrench and S-pipe for the connection between filtration and UV) are supplied with the system. Shutoffs are not supplied and are optional, depending on the plumbing set-up.

This commercial/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.



Similar to image.
Shutoffs shown are not supplied

Features

- ▶ Chemical-Free Water Treatment
- ▶ Robust Construction
- ▶ 20" BigBlue Sediment + Carbon Filtration
- ▶ Filter Housings with Pressure Relief Valves
- ▶ 304L SS Ultra-Violet Sterilizer
- ▶ Electronic Ballast with Lamp-Out Alarm



The system ships complete with all necessary components and installation hardware

Benefits

- ▶ Efficient Disinfection, Low Cost per Litre
- ▶ High UV Dose for Peace of Mind
- ▶ Extremely Simple to Use and Maintain
- ▶ Pre-Assembled Filter Set for Easy Installation
- ▶ Ideal for Use in Many Commercial Applications



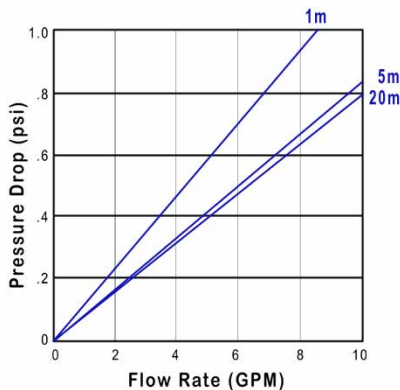
We
Stand
On
Guard

Rated Flow:	113 litres per minute (30 GPM) 6,780 litres/hour, 162 m ³ /day (1,800 gallons/hour, 43,200 gallons/day)
Initial UV Dose at Rated Flow:	49 mJ/cm ² (49,000 µsec/cm ²) @ 95% UVT 34 mJ/cm ² (34,000 µsec/cm ²) @ 70% UVT
Electrical:	110-130 Volt AC / 50-60 Hz (Part # SYS3000/QD4E-1) 220-240 Volt AC / 50-60 Hz (Part # SYS3000/QD4E-2)
Power Consumption:	85 VA @ 120 V, 89 VA @ 240 V
Ballast:	Electronic Ballast (Part # 4-BE-800WL30-1/2) w/ Lamp Out Alarm, Power LED
Replacement Lamp:	Low-Pressure UV Lamp, Part # RL-100/1197T6
Filtration:	20" BigBlue (L 20", OD 4-1/2"), w/Pressure Relief
Stage 1, Sediment Filter:	Melt-Blown Polypropylene ("Spun Poly"), 5 Micron
Stage 2, Carbon Filter:	Pleated Carbon NCP Series, 10 Micron
Connection betw. UV and Filter (S-Pipe):	PVC S-Pipe (Part # 6-3000) (SS Optional)
Max. Operating Temperature:	37 °C (98.6 °F)
Max. Operating Pressure:	125 psi - 8.6 bar (tested to 500 psi)
Plumbing:	1.5" MNPT In/Out
Shipping Size and Weight:	1 box 52x9x9 inches, 24 lbs / 10.9 kg 1 box 26x17x7 inches, 16 lbs / 7.3 kg

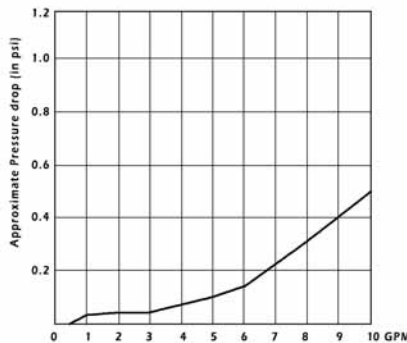
Pressure Drop Charts

The filter cartridges in this system have a great surface area for long life and reduced filtration costs.

Sediment Filter



Pleated Carbon



Additional Features (Optional):

- Electronic Deposit Control System with PVC or Stainless Reaction Chamber
- Additional Sediment Filtration with Spin Down Separator for High Turbidity Applications
- Purge Valve at Out Port for Overheat Protection
- Ballast with Hour Meter for Total Runtime Display
- Pressure Gauges on Filters

Filtration

This UV System comes equipped with dual pre-filtration. The water first enters the sediment filter housing, where a sediment filter cartridge (made from melt-blown Polypropylene) removes dirt, rust and other sediments down to 5 micron (cartridge Part # 14-WFS20BB-5SP). This is followed by a second filter housing with a pleated carbon filter cartridge at 10 micron (made from Carbon-impregnated Polyester), which removes chlorine, taste and odour from the water (cartridge Part # 14-WFC20BB-10PLC). The filter cartridges are NSF certified and have an excellent chemical resistance in all food and beverage purification applications and a low pressure drop.

Additional filtration stages can be installed, such as a self-cleaning Spin Down Separator that keeps the filter cartridges from clogging up if elevated sediment levels are present (Part # 13-SDF-2).



UV-5000

Ultra Violet Water Sterilizer

Description

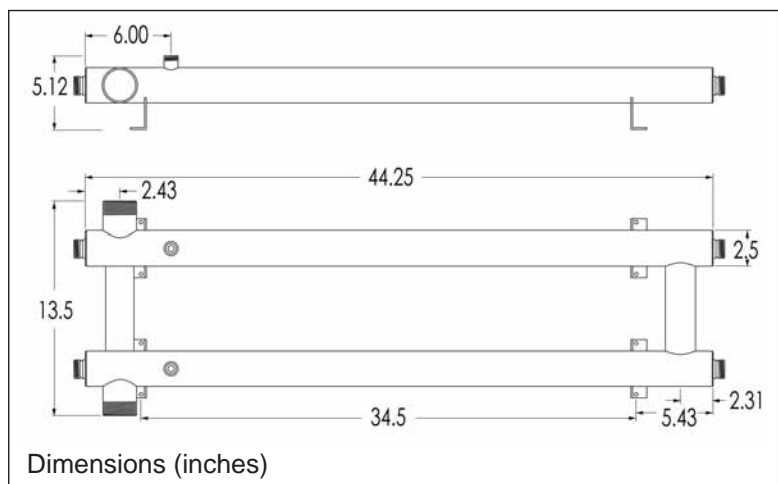
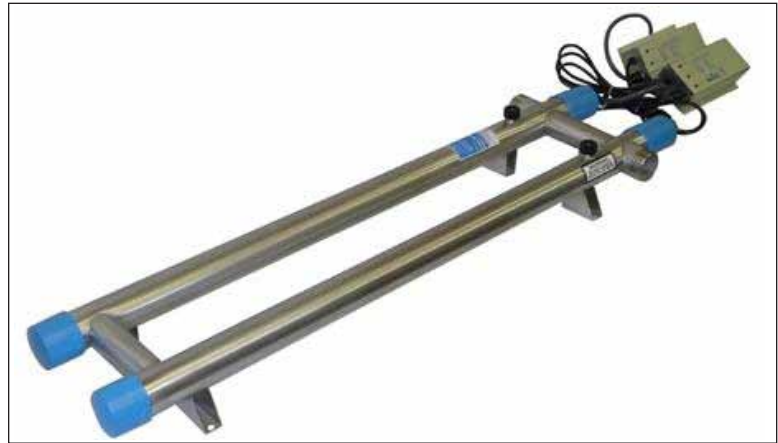
The UV-5000 is a robust, high quality ultra-violet sterilizer that offers very efficient treatment at a low cost per unit volume. Typically installed at the point of entry, it can treat municipal water as well as ground water from drilled or dug wells, and surface water from lakes, ponds or rivers (pre-filtration necessary). This sterilizer is perfectly sized to provide drinking water or purified process water for commercial and light industrial applications, including food and beverage processing, pharmaceutical manufacturing, or cooling towers. It is also a very popular system for the disinfection of pools and spa's.

The UV-5000 contains two low-pressure, high output UV lamps in a manifolded 316L stainless steel reaction chamber. It comes with two electronic ballasts that feature a lamp-out alarm if there is no power to the lamp.

Combined with appropriate pre-filtration, this sterilizer is 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.

Additional features for this sterilizer can be ordered, such as a UV-monitoring system for fail-safe operation, a thermo-sensitive purge valve at the out port to prevent over-heating in no-flow conditions, or volt-free contacts on the ballasts for remote signaling.

The UV-5000 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 99.99% (log 4) or more (*Giardia*, *E. coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Applications

- ▶ Potable Water
- ▶ Water Bottling Plants
- ▶ Food Processing and Packaging Centres
- ▶ Hospitals and Health Clinics
- ▶ Vegetable Processors
- ▶ Pools and Spa's
- ▶ Beverage Production

Benefits

- ▶ Efficient Disinfection, Low Cost per Litre
- ▶ Exceptional High UV Dose
- ▶ Extremely Simple to Use and Maintain
- ▶ High Quality Stainless Steel Reaction Chamber
- ▶ Easily Upgradeable with Optional Features
- ▶ Made in Canada



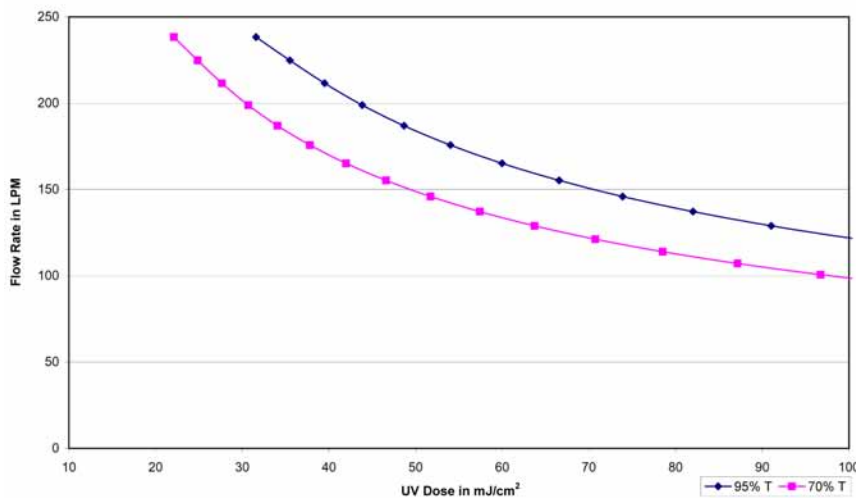
Specifications

Part # P5000/QS4E-1/2

Rated Flow:	189 litres per minute (50 GPM) 11,340 litres (11.3 m ³)/hour, 272 m ³ /day (3,000 gallons/hour, 72,000 gallons/day)
Initial UV Dose at Rated Flow:	47 mJ/cm ² (47,000 µsec/cm ²) @ 95% UVT 34 mJ/cm ² (34,000 µsec/cm ²) @ 70% UVT
Electrical:	110-130 Volt AC / 50-60 Hz (Part # P5000/QS4E-1) 220-240 Volt AC / 50-60 Hz (Part # P5000/QS4E-2)
Power Consumption:	102 VA @ 120 V, 107 VA @ 240 V
Ballast:	Electronic Ballast (Part # 4-BE-800WL-1/2) w/ Lamp Out Alarm, Power LED
Number of Lamps:	2 (Part # RL-110/1197T5)
Lamp Wattage and Current:	110 Watts, 800 mA
UV Monitor:	Optional (Part # 4-UV/MS50-1/2)
Solenoid Valve:	Optional (Part # 4-SV-2000-1)
Hour Meter:	Optional (Part # 4-HM-R100) (one each per lamp)
Max. Operating Temperature:	37 °C (98.6 °F)
Max. Operating Pressure:	125 psi - 8.6 bar (tested to 500 psi)
Plumbing:	2" MNPT In/Out
Chamber Material:	316L Stainless Steel
Shipping Size and Weight:	1 box 52x16x9 inches, 46 lbs / 21 kg

Dose Chart

UV-5000 UV Dose Response Curve



Additional Features (Optional):

- Electronic Deposit Control System with PVC or Stainless Reaction Chamber
- Volt-Free Contacts on Ballasts for Remote Signaling
- Purge Valve at Out Port for Overheat Protection
- Ballasts with Hour Meter for Total Runtime Display
- Rack-Mounted or Skid-Mounted for Easy Installation

Filtration

This UV sterilizer assumes 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 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

This UV unit can be manifolded in parallel for higher flow rates (see Part # SYS5100F, SYS5100F3) and can be customized for many applications with pre-filtration into All-in-One rack-mounted systems