



UV Filtration System

WSR4



Connections	25mm / 1.0"
Flowrate	80 Lpm @ 125psiG
Dosage	50 mJcm ² / 95% UVT Manufacturers Rating
Filtration	Rain water cartridge set
Feed Water	Min 1°C (33°F) Max 25°C (77°F)
Weight	59 kg dry

General overview

- Designed for **residential** locations typically 1 or 2 bathrooms with 5 or more occupants
- Designed for **untreated** water sources that typically contain harmful organisms, a moderate amount of silt / debris, possibly some sprays and may from time to time develop odor / taste issues.

Annual Service Kit (WSR4SK) containing:

- WSI-100-1000-T5L qty 1 (100w 800mA UV Lamp)
- WSI-T5S qty 1 (1 set of Silicon Wedge Seals - replace after cleaning quartz sleeve)
- WSI-T5B qty 1 (1 set of Nylon Spacer Rings - allows end caps to smoothly tighten against the seals)
- WSI-PTC45-1020 qty 1 (Jumbo 10" 20m Pleated cartridge)
- WSI-PTC45-1005 qty 1 (Jumbo 10" 5m Pleated cartridge)
- WSI-32-450-10 qty 1 (Jumbo 10" 5m Carbon cartridge)
- WSI-PPC45-1001 qty 1 (Jumbo 10" 1m Meltblown cartridge)

***Hang on its 2 x SS brackets, connect to the inlet /outlet and plug in.
Simplicity at its best***

Major features include:

- **Filters:** 100% Stainless Steel for superior life
- **UV Chamber:** Extended length double welded internally polished chamber
- **Connections:** UV Chamber via SS 1.0" Unions: Filters via Oring Spigots
- **Sealing:** All connections sealed with either 3.2mm N90 Nitrile washers or Nitrile Orings
- **Assembly** All Stainless Steel frame that is fully adjustable for aligning to inlet/outlet piping

Compliance to NZ Drinking Water Standards Tables 5.6 & 10.1

- Rigid 5m final cartridge- **Complies** - Meltblown 1 micron fitted as **Standard**
- Continuous alarm monitoring lamp life & outage- **Complies** - Digital controller fitted as **Standard**
- UV Sensor low light alarm- **Does not comply** - Digital Ballast fitted
- Dosage to always exceed 40 mJ/cm² @ 70% UVT- **Does not comply** - Flow Control Orifice not fitted

WSR4



Optional All Weather Cover

Specifications

- Quartz Sleeve: 1090 x 23 mm (T5)
- Lamp: 1 x Powerful Hi Output 100 watt UV sterilizing lamp (extended length at 1000mm) 365-daylife to safeguard against water borne diseases, bacteria, E. coli, Giardia and Crypto.
- Power Supply: Gel filled UV ballast /controller encased in IP rated box to protect from all forms of moisture, includes a built in RCBO and Surge Protector. RCM Licensed
- Filtration: Four 10" Jumbo Filters
- Piping: 304SS pipe fittings& Unions and UV chamber; 1.0" BSP connections (F);
- Mounting: Stainless Steel Frame; System Dimensions 1200 x 580 x 250 mm
- Shipping Carton: 1.4 x 0.6 x 0.4 (0.35 m3); 65kg
- Optional All weather cover

Typical Installation

- Do not mount close to the ground – chest height is recommended
- Systems should not be installed outside even with a cover in freezing conditions
- Fix the two SS brackets to studs, then hang the system onto the brackets
- Inlet and outlet pipes connect to the 1" (F) ball valves
- Ideally position system with 1.1 meter clearance to the left (for removal of the lamp/quartz sleeve)
- If this is not possible, the chamber itself can be easily removed & refitted (Hex Unions)

Maintenance

- 6 monthly for replacing cartridges. If cartridges prematurely block then pre-filtration may be required.
- 12 monthly for replacing UV lamps & removal/cleaning of the quartz sleeve; replace seals.
- End of Lamp life signaled by digital countdown display (then alarm) at 12 months usage.

Warranty

- We warrant the ultraviolet disinfection and filtration system's hardware and electrical systems to be free from defects in material and workmanship for a period of three (3) years from the date of purchase (invoice date) by the original owner (consumer).
- The ultraviolet lamps and sensor probes to be free from defects in material and workmanship for a period of 10000 hours (1 year).
- We will at our option and expense, either repair or replace such items subject to certain conditions, exceptions, and exclusions as detailed in the System Manual.



WSR4



Water Quality

Do not use the System with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

If this System is to be used for the treatment of untreated surface waters or ground water under the direct influence of surface water, a device found to be in accordance with Cyst Reduction under the appropriate NSF/ANSI Standard shall be installed upstream of the System.

Water passed through the unit must fall within the following parameters:

- Iron: < 0.3 ppm (0.3mg/L)
- Hardness* :< 7 gpg (120 mg/L)
- Turbidity: <5 NTU
- Manganese: < 0.05 ppm (0.05 mg/L)
- Tannins: < 0.1 ppm (0.3 mg/L)
- UV Transmittance: > 75% (call factory for recommendations on applications where UVT < 75%)



The UV Chamber and Filters used in this System have been pressure tested by NSF.

NSF Testing

- While NSF testing was performed under standard laboratory conditions, actual performance may vary.

End

Page 3 of 3