

Installation & Operation Manual

WRX-SERIES

HydroSafe

Water Treatment System

Please read this Operations Manual before installing or operating the HydroSafe WRX-Series Water Treatment System



HydroSafe
WRX-45



HydroSafe
WRX-70



HydroSafe
WRX-30

OPERATIONS MANUAL

Thank you for purchasing a quality Hydrosafe WRX-Series Water Treatment System. Your system is manufactured from quality materials and components and is designed to give you years of trouble free service when properly used and maintained.

The Hydrosafe Water Treatment System is designed to improve the quality of most municipal and rain water supplies. This system can also be used as an additional treatment stage to some bore water supplies. We recommend that you obtain a full water analysis of the supply water before determining whether this system is suitable for your application.

For information regarding supply water quality, please contact our Customer Service Centre on Freecall 1800 446 500.

A separate manual is supplied with the Hydrosafe Water Treatment System which covers the operation of the **Galaxy UV® Steriliser**. It is extremely important to read and understand both of these manuals before installing or operating the system.

Manual 1: **Hydrosafe Operations Manual**
Manual 2: **Galaxy UV® Owner's Manual**

Hydrosafe WRX-Series Inlet Water Specifications

Minimum Inlet Water Temp:	2°C
Maximum Inlet Water Temp:	37°C
Maximum Operating Pressure:	600kPa
Maximum Turbidity	<1 NTU
Hardness:	<120 gm/L
Iron (Fe):	<0.3 mg/L
Manganese (Mn)	<0.05 mg/L
Tannins (organics):	<0.1 mg/L
UVT (Transmittance):	>85%

* Please refer to the Galaxy UV® Owner's Manual for more detailed specifications on the UV steriliser, inlet water quality and dosage rates required. Flow rates depend on water pressure, the type of filter cartridges used and the condition of the filter cartridges.

WARNING

***Your Hydrosafe Water Treatment System contains an Ultraviolet Steriliser.
Never look directly at an illuminated UV lamp at any time. Ultraviolet light
can cause serious burns to eyes and skin.***

INSTALLATION REQUIREMENTS

Determine Unit Location

Plan the installation. The system must be installed on a vertical wall or frame with sufficient strength to support the weight of the unit (approximately 35 kg when in use). The system must be installed vertically with the UV controller at the top of the cabinet. We recommend you choose a mounting location that is protected from the weather and out of direct sunlight to protect from aesthetic fading. Do not install this system where it will be exposed to temperatures below freezing.

Water Supply

The Hydrosafe WRX-Series must only be connected to a **cold water** supply. A suitable shut-off valve (not supplied) should be installed in an easily accessible position near the water supply inlet. If water supply pressure is likely to exceed 600kPa, a suitable pressure limiting valve must be installed on the supply line. **DO NOT USE WITH SUPPLY WATER THAT IS MICROBIOLOGICALLY UNSAFE OR OF UNKNOWN QUALITY.**

Water Supply Pressure:	600kPa
Water Supply Temp:	2°C to 37°C
Flow Range WRX-30:	Up to 30 Litres per minute
Flow Range WRX-45:	Up to 45 Litres per minute
Flow Range WRX-70:	Up to 70 Litres per minute

* Please refer to the separate **Galaxy UV® Owner's Manual** for detailed specifications on the inlet water quality.

- Water Chemistry - see page 5 (Galaxy UV® Owner's Manual)

The effectiveness of UV sterilisation is based on the UV transmittance of the water. This system is designed to be effective on water with a UV transmittance of >85%. Please call our Customer Service Centre if you require further information regarding UV transmittance.

Power Requirements

A single 240 VAC 10amp weather protected GPO is required. The Hydrosafe WRX-Series is supplied with a 0.8metre power cord.

INSTALLING THE HYDROSAFE

Please Note: This system is to be installed by a licensed tradesperson in compliance with applicable state and local regulatory requirements. For correct installation and operation of this appliance it is essential to observe the manufacturer's instructions.

Mounting the Hydrosafe WRX-Series

The Hydrosafe should be fixed to a suitable wall or mounting surface through the back plate mounting holes. Use suitable fasteners for the application taking into consideration the mounting surface material and the weight of the system which weighs approximately 45 kg when in use. We recommend you obtain assistance from another person when lifting or installing the system.

Connect Water Supply

Connect the Hydrosafe WRX-Series inline to your water supply. Ensure correct direction of flow are strictly observed. A shut-off valve (not supplied) should be installed on the water supply inlet in an easily accessible position for ease of servicing. Turn on the water supply.

Turn On Electricity

Turn on the power to the unit. The UV controller should now display 365 on the screen. This shows the number of days before the UV lamp needs to be replaced.

THE UV STERILISER MUST BE FULL OF WATER BEFORE TURNING ON POWER

Warning: *Ensure all external electrical connections are protected from weather. When powered by a generator, a power surge protector must be used to prevent damage to the controller.*

INSTALLING THE HYDROSAFE CONTINUED

Flush System

We recommend flushing of the system for 2-5 minutes prior to initial use. The initial flush purges air out of the system and also flushes carbon fines (tiny black harmless particles of carbon) out of the carbon filter cartridge. Flush the system by opening the nearest tap connected to the unit.

ENSURE THE POWER IS ON BEFORE FLUSHING THE UNIT TO ENSURE
UNTREATED WATER DOES NOT FLOW THROUGH THE UNIT

Commissioning

Clean any debris out of the inside of the cabinet and check the system for leaks. Reinstall the cabinet cover. Your system is now ready for use. Enter the date on the *Lamp Replacement Chart*.

ENSURE THE POWER TO THE UNIT IS LEFT ON AT ALL TIMES

MAINTENANCE

General Maintenance

We recommend that you check your Hydrosafe WRX-Series once a month for the following:

- Ensure the power to the system is turned on.
- Check for any leaks and make sure no water is pooling inside the cabinet.
- Check the display on the UV controller. (See notes on UV controller below)
- Monitor the performance of your water pressure and water flow. Reduced pressure or flow can be sign that your filter cartridges need replacing.
- After extended periods of non-use – flush system for 5-10 minutes.

Warning: Always disconnect power before servicing the Hydrosafe.

Filter Cartridges

To maintain optimum performance, the filter cartridges should be replaced every 3-6 months or more frequently, depending on water quality and usage. Replace filter cartridges sooner if you notice a decrease in pressure or flow.

To replace filter cartridges:

1. Turn off water supply.
2. Turn off power supply.
3. Release the pressure in the system by opening the nearest tap after the system.
4. Undo the filter housings and remove the old cartridges.
5. Wash the filter housings in warm water and mild detergent.
6. Check the condition of the o-ring and replace if damaged.
7. Lubricate the o-ring with a suitable lubricant and reposition on filter housing.
8. Remove new filter cartridges from packaging and insert into filter housings.
9. Ensure the new filter cartridges are properly seated over the spigot in the base of the filter housing.
10. Ensure the spigot in the housing head is centred inside the top of the cartridge.
11. Hand tighten the bowl firmly. DO NOT OVER TIGHTEN.
12. Turn on water supply and check for leaks.
13. Turn on power supply.
14. Flush the system for 3-5 minutes to remove carbon fines (tiny black harmless particles of carbon). Flush the system by opening the nearest tap connected to the unit.

**ENSURE THE POWER IS ON BEFORE FLUSHING THE UNIT TO ENSURE
UNTREATED WATER DOES NOT FLOW THROUGH THE UNIT**

MAINTENANCE CONTINUED

UV Lamp & Quartz Sleeve

The UV lamp in the stainless steel reaction chamber should be replaced every 12 months. A sticker is supplied with the system to record the dates at which the UV lamp was replaced. The quartz sleeve should be replaced every 2 years.

Please refer to the detailed instructions on pages 9 to 11 of the **Galaxy UV® Owner's Manual** for instructions on how to replace the UV lamp and the quartz sleeve.

UV Controller

The UV controller supplies power to the UV lamp and the screen displays the remaining life of the UV lamp, shown in days.

When the UV lamp is replaced it is important to reset the lamp life counter.

For detailed instructions on setting the lamp life counter, please refer to page 17 of the **Galaxy UV® Owner's Manual**.

Replacement Filters & Spare Parts

Replacement filters and spare parts can be purchased through any Hydrosafe distributor. To locate a distributor in your area, please call our Customer Service Centre on Freecall 1800 446 500.

Disclaimer

Please Note: Due to our policy of continuous product improvement, Aquastream reserves the right to change materials and specifications without notice. Sizes given are approximate only.

SPARE PARTS

Spare Parts List

Models	WRX-30	WRX-45	WRX-70
Filter Housing Qty	2	1 x Dual	1 x Dual
Filter Housing Code	FHG-2025-34	FHGA-1045-D1	FHGA-2045-D1
Brand	Uniflow	Uniflow	Uniflow
Ultraviolet System			
Selected Make/Model	Galaxy GX4-23	Galaxy GX4-H38	Galaxy GX4-H53
UV Dose/Flow	20mJ/cm ² @ 30LPM	20mJ/cm ² @ 45LPM	25mJ/cm ² @ 70LPM
UV System Power	240VAC	240VAC	240VAC
UV Lamp	GX-RL-470	GX-RL-H330	GX-RL-H420
Quartz Sleeve	GX-RQ-470	GX-RQ-330	GX-RQ-420
Connections			
Inlet	3/4" BSP / DN20	1" BSP / DN25	1" BSP / DN25
Outlet	3/4" BSP / DN20	3/4" BSP / DN20	1" BSP / DN25
Filter Cartridges			
Stage 1 Filter Type	Pleated Carbon	Pleated Carbon	Pleated Carbon
Stage 1 Filter Model	FPC-2025-10	FPC-1045-10	FPC-2045-10
Stage 2 Filter Type	Polyspun Sediment	Pleated Sediment	Pleated Sediment
Stage 2 Filter Model	FPS-2025-1	FPP-1045-5	FPP-2045-5
Electrical			
Power Required	230-240V / 50-60Hz 10A		
System Dimensions			
Approx. L x W x H (cm)	450 x 150 x 760	670 x 200 x 530	670 x 200 x 770
Approx. Weight (kg)	15	20	25

WARRANTY INFORMATION

Warranty

Aquastream warrants this product to be free from defects in material and workmanship for a period of 24 months from the original date of purchase.

This warranty is expressly limited to the repair or replacement of faulty parts at our discretion and must be shipped to our factory along with proof of purchase for evaluation prior to warranty approval.

This warranty only applies providing the Hydrosafe WRX-Series was installed, maintained and operated in accordance with this operations manual. No liability is accepted where the temperature, pressure or other specification is exceeded, or where product damage is the result of water hammer or freezing.

This warranty is only available to the original purchaser and does not extend to the resale of second hand products.

This warranty does not cover replaceable components such as filter cartridges, o-rings and seals, UV lamps and quartz sleeves.

The warranty on all components of the Galaxy UV[®] Steriliser is void unless genuine Galaxy UV[®] replacement lamps are used in the system.

This warranty does not cover normal wear and tear or damage caused by misuse, abuse, or vandalism. This warranty is given in lieu of all other express or implied warranties and High Country shall in no circumstance be held liable for damages, consequential or otherwise, or delays caused or faulty manufacturing except as excluded by law.