

Whole Home Water Filtration

With UV Sterilisation

Smaller Home: 1 bathroom (1-2 bedrooms)



WAT SYS AUV-B3M

APPLICATIONS

HRV UV systems suit residential or commercial applications with flow requirements up to 30.4 litres per minute.

Ultraviolet treatment reduces the risk of illnesses caused by microbial contamination but does not change the taste, colour or odour of water.

UV systems perform best when suspended particles have been removed first, so you may need to also install a filtration unit.

FEATURES | BENEFITS

- Modular design makes upgrading easy and keeps your unit future-proof.
- Easy lamp changes: the single-end design means that there is no need to drain the UV chamber first.
- Glow plug included so it's easy to see if your lamp is working. You can upgrade to a sensor in the future by simply swapping the glow plug for a sensor.
- Reliable lamp: industry-proven to give a consistent output, maintaining performance to the end of the lamp's life.
- Designed and manufactured to American Society of Mechanical Engineers (ASME) pressure vessel standards for your peace of mind.
- Cost-effective.
- No chemicals required.
- Easy installation (when using a specialist)
- Treats every tap in the line.

1 STAGE 1 & 2: SEDIMENT FILTRATION

The 1st stage includes a dual grade polyspun cartridge designed to remove coarse/fine sediment prior to the 2nd stage which utilises carbon filtration technology. Collectively both cartridges work in combination to reduce Giardia and Cryptosporidium cysts, chemicals, pesticides, insecticides, asbestos, rust, sediment, taste and odour.

3 STAGE 3: UV CHAMBER

Disinfection to reduce potential illness from disease causing micro-organisms.

2 UV CONTROLLER

- Constant current electronic controller comes in a splash-proof casing.
- A colour user interface allows for easy visual identification of remaining lamp life, and other diagnostic messages.

IMPORTANT

Standard domestic UV dose is 30mJ/cm². It is strongly recommended that the flow rate given at this dose is not exceeded when this product is used for disinfection of pathogens.

98% UV Intensity UV Output Screen	365 Days Lamp Life Remaining Lamp Life Remaining Screen	Domestic / Commercial UV System Home Screen	Scan QR Code for information QR Code Screen	DANGER lamp failure replace lamp Lamp Failure Screen	DANGER lamp expired 8 days ago CALL HRV 0800 HRV 123 Lamp Expiration Screen	water may be unsafe for consumption Unsafe Water Screen	UV OUTPUT 49% low UV check system Low UV Warning Screen	
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***Watermark is a Certification for ensuring that plumbing and draining products are fit for purpose and authorised for use in plumbing and drainage installations

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SIZING

For help with sizing please contact HRV (email or phone)

UV LIGHT SPECIFICATIONS	
MODEL	AUV-B3M
Description	High Output
Flow Rate (@16 mJ/cm ²)	58.8 lpm
Flow Rate (@30 mJ/cm ²)*	30.4 lpm
Flow Rate (@40 mJ/cm ²)	23 lpm
Port Size	1" MNPT
Electrical	90-265V / 50-60Hz
Lamp Watts	20
Power (watts)	23
Chamber Material	316L Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated
Replacement Lamp	AUVL-434
Replacement Sleeve	AUVQ-466
Chamber Dimensions	8.9 x 50.8 cm (3.5 x 20.0")
Controller Dimensions	171.5 x 92.1 x 76.2 mm (6.8 x 3.6 x 3")
System Dimensions	680mm H x 580mm W x 215mm D
Maximum Operating Pressure	150 psi (10 bar)
Operating Temperature Range	2-40°C
UV Monitor	Upgradeable, includes visual glow plug
Dry Contacts (solenoid ready)	Optional
4-20 mA Output	Optional
Lamp Age Counter	Yes
Lamp-Out Indicator (audible & visual)	Yes

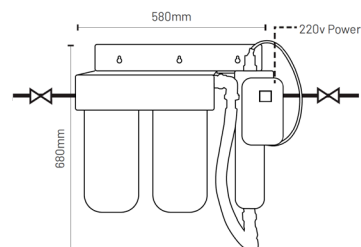
*Flow rates stated at 95% UVT. Recommended UV dose for domestic use is 30mJ/cm².

SERVICING		
DESCRIPTION	PART #	SERVICE FREQUENCY
Coarse Sediment Filter	PSJ-7525	6-12 monthly/when pressure loss reaches 15psi
Fine Sediment Filter	PSJ-2501	6-12 monthly/when pressure loss reaches 15psi
UV Lamp	AUVL-434HO	Annually
UV Quartz Sleeve	AUVQ-466	Replace when damaged. Clean regularly

TYPICAL INSTALLATION

Key

Isolation Valve/
Shut-off Valve



OPTIONAL EQUIPMENT MODULES

SHERPA Series Water Quality Monitor

Installs on LUMINOR LB5/LBH5 rack mounted UV systems and allows for remote monitoring of all major and minor alarms that take place on the main UV system. Three LED's visually display system functionality from up to 46M away.



UV Sensor Module

Allows the 254nm UV wavelength to be measured and displayed via the controller. The sensor plugs directly into the controller and is mounted in the sensor port located on all HRV UV POE chambers.



Solenoid Module

Used to power a remote normally closed solenoid valve (not included). Solenoid will close on lamp failure or when low UV conditions are detected by the sensor.



TRV (Temperature Management Relief Valve)

TRV allows for a small amount of water to be physically released (dumped) from the UV unit to allow for cooling of the water. Used in applications of extended "no flow" conditions, or when the temperature of the treated water is of a critical nature.



Cooling Fan

To reduce water temperature inside the reactor through mechanics and convection without wasting any water. Runs independently and continuously. Comes with a compact modular power adapter with interchangeable AC clips that operates from 90-264V (47-63Hz.)



4-20mA Module

Used for signal transfer to a remote device such as a data logger or computer.



Remote Alarm (Dry Contact) Module

Used for signal transfer to a remote alarm or dry contacts.



MANUFACTURER'S WARRANTY

PART	WARRANTY
Chamber	10 Year Limited Warranty
Electronics	3 Year Limited Warranty

IMPORTANT: EXCLUDES UV LAMPS & QUARTZ SLEEVES

