



## Centurion Xtra Smart Wall mounted UV System MCXS

### Applications

- Filtration and disinfection of rainwater
- Small and medium home potable water supply
- Bore and surface water – subject to water quality

Best warranty on the market:

10 years on stainless reactor chamber

3 years on electronic controller

14 months on UV lamps and UV sensors

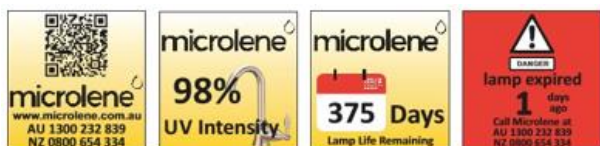
### Microlene's Centurion XS UV System

Microlene's proven three-stage Filtration and Ultraviolet disinfection systems can provide continuous clean, safe and fresh tasting water from your rainwater tank.

In conjunction with pre-filtration, UV is the best practical option for treating drinking water and is widely used in disinfecting the drinking supplies of not just individual homes, but entire towns. Installation of a UV system has never been easier with an innovative design that allows for feedwater to enter the filters from either the right or left side of the unit.

The Centurion XS is "factory ready" to accept a UV intensity module in the future if so desired. The plug and play platform has the most advanced residential controller on the market with a color user interface giving a multitude of screens displaying diagnostics, status, warnings and even QR codes for a quick link back to Microlene's website.

Controller Information and Diagnostics - Sample Screens



Centurion XS features:

- Filter design with O-ring groove for fail-safe installation,
- Higher operating pressure (120 psi), and single manifold heads (no potential leaks between heads)
- Extra smart controller with a multitude of screens displaying diagnostics, status, warnings and even QR codes for a link to replacement parts.
- Controller with LIGHTLOCK™ technology ensuring only the correct lamps can be used in the system
- 316L stainless steel, axial flow reactors allow for optimum efficiency & lamp and sleeve service without the need to drain the water
- Coated UV lamps for consistent UV output throughout life
- 10,000 hour LP lamps – longest residential lamp life on the market
- The active system can be mounted in under 5 minutes
- 10-year limited warranty on UV reactors
- Splash-proof controller with constant current electronic ballast

\*Note: Cannot treat water contaminated by metals, chemicals or algal toxins.

# Microlene Centurion XS

Maximum flow rate	57 lpm
Maximum system pressure	700 kPa
Water temperature range	5 – 40°C
Maximum ambient temperature	50°C
Lamp life	10,000 hrs (14months)

Supply Voltage	90-265VAC
Supply frequency	50-60Hz
Power	57W
Phase	1
Lamp	45W
Input	0.24A
Output	800mA

Service Intervals	
UV lamp	Replace 14 months
UV quartz sleeve	Clean 2 – 6 months

**Water Quality**  
Water quality is extremely important for optimum UV performance. Maximum recommended parameters are as follows:

Materials of Construction	
Part	Material
Chamber	Polished 316L Stainless Steel A249 pressure rated tubing
Wall mounting bracket	Powder coated steel

<b>Hardness</b>	120 mg/L – if hardness level is 120 mg/l or slightly below the quartz sleeve must be cleaned periodically in order to ensure efficient UV penetration; if above the water must be softened.
<b>Iron (Fe)</b>	<0.3 ppm (0.3mg/l)
<b>Manganese (Mn)</b>	<0.05 ppm (0.05mg/l)
<b>Turbidity</b>	<1 NTU
<b>Tannins (organics)</b>	<0.1 ppm (0.1mg/l)
<b>UVT (transmittance)</b>	>85% (Please contact Microlene if water has a UVT that is less than 80% for pre-treatment recommendations)

Spare parts & options	
Part code	Description
KMCXS	Complete unit
20PP20J	Poly pleated 20 microns rated cartridge (housing 1)
1PS20J	Poly spun 1 micron rated cartridge (housing 2)
MC-HOLP	High output UV lamp
MC-HOSL	Quartz sleeve
MCXS-CONT	MCXS controller
MC-CONT-PC	Controller power cord
MCXS-UVS	Optional UV sensor

UV DISINFECTION SYSTEMS		
MODEL	MCXS	MCS
Flow Rate (@ 16 mJ/cm <sup>2</sup> @ 95% UVT)	114 lpm	114 lpm
Flow Rate (@ 30 mJ/cm <sup>2</sup> @ 95% UVT)	57 lpm	57 lpm
Flow Rate (@ 40 mJ/cm <sup>2</sup> @ 95% UVT)	45 lpm	45 lpm

NOTE: Flow rates are based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to 84 lpm for 1" port before significant pressure drop is realized

- NOTES:  
 1. INLET PORT: 1" FEMALE-NPT.  
 2. OUTLET PORT: 1" MALE-NPT.  
 3. REFERENCE DIMENSIONS IN ROUND ( ) BRACKETS.

