





Centurion Smart Wall mounted UV System MCS

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 Smart 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 left or right side of the unit.

Simplistic in operation, this system features a tricolor LED that indicates system status and a 4-digit display to indicate lamp life remaining. Pressing the button will change the display to indicate total running time. When the UV lamp is on and within its operating age, the LED will be green. When the UV lamp is not on or the lamp life has expired, the LED will be illuminated red and an audible buzzer will be sounding. To remedy this condition, the UV lamp must be replaced with a new genuine Microlene UV lamp.

Controller Information and Diagnostics – Sample Screens







Centurion S 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)
- Tricolor LED display that indicates system status and a 4-digit display to indicate lamp life remaining
- 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.

DAVEY

Microlene Centurion S

Maximum flow rate57 lpmMaximum system pressure700 kPaWater temperature range5 - 40°CMaximum ambient temperature50°CLamp life10,000 hrs
(14months)

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

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

Spare parts & options		
Part code	Description	
KMCS	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	
MCS-CONT	MCS controller	
MC-CONT-PC	Controller power cord	

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

Water Quality			
Water quality is ext	er quality is extremely important for optimum UV performance. kimum recommended parameters are as follows:		
Hardness	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.		
Iron (Fe)	<0.3 ppm (0.3mg/l)		
Manganese (Mn)	<0.05 ppm (0.05mg/l)		
Turbidity	<1 NTU		
Tannins (organics)	<0.1 ppm (0.1mg/l)		
UVT (transmittance)	>85% (Please contact Microlene if water has a UVT that is less than 80% for pre-treatment recommendations)		

UV	UV DISINFECTION SYSTEMS			
MODEL	MCXS	MCS		
Flow Rate (@ 16 mJ/cm² @ 95% UVT)	114 lpm	114 lpm		
Flow Rate (@ 30 mJ/cm² @ 95% UVT)	57 lpm	57 lpm		
Flow Rate (@ 40 mJ/cm² @ 95% UVT)	45 lpm	45 lpm		
OTE: 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				

