



Validated NSF 55 Class A

Ultra Violet Water Disinfection Systems

Model Number: UV30-CA, UV68-CA

Applications

Davey UV water disinfection systems are a safe and effective means of eliminating harmful bacteria from drinking water supplies.

- No chemicals
- No taste
- No by-products
- Impossible to overdose

Benefits of Microlene's UV Systems

The Davey Microlene systems come with a true 254nm Teflon® based UV sensor to continuously monitor the UV output (performance) of the system and delivers a graphical colour representation of the UV intensity provided by the system.

Based on a modular, plug and play platform, the Davey Microlene system has the most advanced residential controller on the market with a colour user interface with a multitude of screens displaying diagnostics, status, warnings.

Product Features

- True 254nm Teflon® based UV sensor continuously measures and displays UV output (as a %)
- Colour screen controller with Lightlock™ for protected lamp replacement, includes QR codes, full diagnostics & warnings
- "Future-proof" expandability port for future upgrades and options
- Axial flow, 316 stainless steel polished chambers, designed and manufactured to ASME pressure vessel standards.
- User friendly bayonet style lamp connector (quick ¼ turn removal with no extra tools needed)
- Reliable, industry proven, proprietary low pressure coated UV lamps with ceramic bases for durability and long life of 10,000 hours

- Constant current electronic controller in a splash proof case, fully potted ballast virtually eliminates common water damage issue
- Complies with NSF/ANSI Standard 55 for disinfection performance, Class A
- Flow restrictors built into chamber to insure maximum rated flow at 40mj is not exceeded
- UV sensor provides continuous UV monitoring

Conditions For Use

Your system will provide years of use provided the system is maintained on a regular basis as per the specifications outlined in the Owner's Manual. For the following system to perform as tested, the following water quality parameters must be met.

Parameter	Level
Hardness	< 120 mg/L (7 gpg)
Iron (Fe)	< 0.3 mg/L (ppm)
Manganese (Mn)	< 0.05 mg/L (ppm)
Tannins	< 0.1 mg/L (ppm)
Turbidity	< 1 NTU
Transmittance	> 75% UVT

For levels outside those specified in the table above, please contact the factory for further technical assistance.

Sample Screens



Microlene UV Water Disinfection Systems

Operating Limits

Model	UV30-CA	UV68-CA
Flow - 40mJ/cm ² @ 70% UVT	29.9 lpm	68.1 lpm
Maximum Current Amps	1	
Electrical	90-265V/50-60Hz. / 12VDC as indicated	
Operating Water Temperature	2 - 40° C	
Operating Pressure	700 - 1030 kPa (0.7-10.3 Bar)	

Sizing

Model	UV30-CA	UV68-CA
Port Size	1"MNPT	1 ½"MNPT
Reactor	89 x 683mm	89 x 1,034mm
Controller	218 x 107 x 102mm	

Electrical Data

Model	UV30-CA	UV68-CA
Flow Restrictor	Integral	
Power Watts	73 (72 @ 230V)	115 (108 @ 230V)
Lamp Watts	67	101
Plug Type	Australian/New Zealand AS/NZ3112 3 wire 230v standard plug	

Materials of Construction

Part	Material
Chamber	Polished 316L stainless steel, A249 pressure rated tubing

Parts

Model		Suits UV30-CA	Suits UV68-CA
Replacement Lamps/Sleeves/Sensors			
UV151LAMP	Replacement Lamp	No	Yes
UV151SLEEVE	Replacement Sleeve	No	Yes
DMRL-600HO	Replacement Lamp	Yes	No
DMRQ-600	Replacement Sleeve	Yes	No
DMRSHO-B3.5V	Replacement UV Sensor	Yes	
DM310039	Replacement Sleeve Spring	Yes	
DM300038	Sleeve O-ring (included with every new lamp and sleeve)	Yes	
MCXS-CONT	Replacement Controller	Yes	
Optional Module Equipment			
DMMOD-SOL1	Solenoid Connection Module	Yes	
DMMOD-SHERPA4	Sherpa Remote Monitoring Display	Yes	
DMMOD-RAM	Remote Alarm Module	Yes	
DMMOD-420	4-20mA Module	Yes	
DM130033	Temperature Relief Valve 1"NPT	Yes	No
DM130034	Temperature Relief Valve 1.5"NPT	No	Yes
DMMOD-SPLITTER	Module Splitter	Yes	
1BSPM – 1NPTM-S	Nipple – 1"BSP male to 1"NPT male tapered, DR Brass, WaterMark AS/NZS 3688	Yes	No
1BSPM – 1NPTM-E	Elbow – 1" BSP male to 1"NPT female tapered, DR Brass, Water Mark AS / NZS 3688	Yes	No



daveywater.com

This literature is not a complete guide to product usage. All images provided in this document are for illustration purposes only. Further information is available from your Davey Dealer, Davey Support Centre and from the relevant product Installation and Operating Instructions. Must be read in conjunction with the relevant product Installation and Operating Instructions and all applicable statutory requirements. Product specifications may change without notice.
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