



Eagle

NSF STANDARD 55, Class B



VALIDATED PERFORMANCE

Independently Certified for Supplemental Disinfection

If you are looking for an independently validated UV system for supplemental disinfection of a potable water source, Eagle Water's "NSF 55 CLASS B" validated systems is your solution.

Available in two version, Eagle Water 6.1 includes a true 254nm Teflon® based UV sensor to continuously monitor the UV output (performance) of the system. Eagle Water 5.1 is "factory ready" to accept a UV Intensity Module in the future if so desired.

Based on a modular, plug and play platform, the Eagle Water system has the most advanced residential controller on the market with a colour user interface with a multitude of screens displaying diagnostics, status, warnings and even QR codes for a link back to Eagle Water's website.

Couple this with the capability to fully customize the colour screens with your own dealer information, or different language, and you can easily see how this UV system shines above all others (the optional Custom Dealer Programmer is required...contact factory for further information)!

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.



System Tested and Certified by NSF International against CSA B483.1 and NSF/ANSI 55 for Disinfection Performance, Class B

Product Features

- True 254nm Teflon® based UV sensor continuously measures and displays UV output (as a %) (standard on EWT6 / EWT6-C units ONLY)
- 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, stainless steel polished reactors, designed & manufactured to ASME pressure vessel standards (304 on EWT5/6 units and 316L on EWT5-C/6-C units)
- 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 (9,000 hours on EWT5/6 units and 10,000 hours on EWT5-C/6-C units)
- Constant current electronic controller (one controller for all EWT units and one for all EWT-C units) in a splash proof case, fully potted ballast virtually eliminates common water damage issue
- Full customization available as an option (language, home screen, phone number, QR codes, etc.)

UV SYSTEMS by
Eagle
1-800-363-6365
info@eaglewater.ca

98%
UV Intensity

375 Days
Lamp Life Remaining

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7 days
Call Eagle Water at 1-800-363-6365

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Eagle
Eagle Water Treatment Systems
5511 Rivière Sud
St-Eustache, Quebec
Canada J7R 0E1
1-800-363-6365
info@eaglewater.ca

Eagle Water NSF STANDARD 55, Class B - Equipment Specifications

Model	Eagle Water (Standard-output)					Eagle Water (High-output, compact design)				
	EWT5-02B EWT6-02B	EWT5-03B EWT6-03B	EWT5-06B EWT6-06B	EWT5-10B EWT6-10B	EWT5-15B EWT6-15B	EWT5-05CB EWT6-05CB	EWT5-10CB EWT6-10CB	EWT5-15CB EWT6-15CB	EWT5-25CB EWT6-25CB	EWT5-40CB EWT6-40CB
NSF Class B Flow Rate (16mJ/cm ² @ 70% UVT)	2.9 GPM	5.2 GPM	7.6 GPM	13.0 GPM	22.0 GPM	5.4 GPM	7.6 GPM	13 GPM	22 GPM	28 GPM
	11.0 lpm	19.7 lpm	28.8 lpm	49.2 lpm	83.3 lpm	20.4 lpm	28.8 lpm	49.2 lpm	83.3 lpm	106.0 lpm
	0.7 m ³ /hr	1.18 m ³ /hr	1.73 m ³ /hr	2.95 m ³ /hr	5.00 m ³ /hr	1.23 m ³ /hr	1.73 m ³ /hr	2.95 m ³ /hr	5.00 m ³ /hr	6.36 m ³ /hr
Flow Restrictor	integral	integral	integral	integral	integral	integral	integral	integral	integral	integral
Port Size	½" FNPT	½" MNPT	¾" MNPT	¾" MNPT	1" MNPT	½" MNPT	¾" MNPT	1" MNPT	1" MNPT	1 ½" MNPT
Electrical	90-265V/50-60Hz. / 12VDC / 24VDC as indicated									
Plug Type	American, Nema 5/15, 3 wire for all 110V systems									
Lamp Watts	8	15	22	39	50	18	34	45	67	101
Power (Watts)	14	20	30	49	62	20 (19 @ 230V.)	38 (36 @ 230V.)	57 (48 @ 230V.)	73 (72 @ 230V.)	115 (108 @ 230V.)
Maximum Current (amps)	1	1	1	1	1	1	1	1	1	1
Replacement Lamp	EWT-L210	EWT-L290	EWT-L470	EWT-L820	EWT-L999	EWT-L210C	EWT-L330C	EWT-L420C	EWT-L600C	EWT-L950C
Replacement Sleeve	EWT-Q210	EWT-Q290	EWT-Q470	EWT-Q820	EWT-Q999	EWT-Q210	EWT-Q330	EWT-Q420	EWT-Q600	EWT-Q950
Replacement UV Sensor	EWT-S1	EWT-S1	EWT-S1	EWT-S1	EWT-S1	EWT-S3	EWT-S3	EWT-S3	EWT-S3	EWT-S3
Chamber Material	Polished 304 stainless steel, A249 pressure rated tubing					Polished 316L stainless steel, A249 pressure rated tubing				
Reactor Dimensions	2.5 x 10.3" (6.4 x 26.2cm)	2.5 x 14.3" (6.4 x 36.4cm)	2.5 x 21.3" (6.4 x 54.2cm)	2.5 x 35.2" (6.4 x 89.5cm)	2.5 x 40.0" (6.4 x 101.6cm)	3.5 x 16.5" (8.9 x 41.8cm)	3.5 x 16.5" (8.9 x 41.8cm)	3.5 x 20.0" (8.9 x 50.8cm)	3.5 x 26.9" (8.9 x 68.3cm)	3.5 x 40.7" (8.9 x 103.4cm)
Controller Dimensions	6.8 x 3.6 x 3" (17.2 x 9.2 x 7.6 cm)					8.6 x 4.2 x 3.5" (21.7 x 10.8 x 8.9 cm)				
Operating Pressure	7-10.3 bar (10-150 psi)									
Operating Water Temp.	2-40° C (36 - 104°F)									
UV Monitor	YES on all EWT6 / EWT6-C units , OPTIONAL on all EWT5 / EWT5-C units (EWT-S1 for EWT5/6 units and EWT-S3 for EWT5/6-C units)									
Solenoid Output	YES (but requires optional solenoid module (MOD-SOL1-EWT))									
Dry Contacts	YES (but requires optional remote alarm module (Dry Contacts) (MOD-RAM-EWT))									
4-20mA Output	YES (but requires optional 4-20mA module (MOD-420-EWT))									
Lamp Change Reminder	YES (both audible and visual (full colour graphic))									
Lamp Out Indicator	YES (both audible and visual (full colour graphic))									
Shipping Weight	3.0 kg (6.6 lbs)	3.3 kg (7.3 lbs)	4.2 kg (9.3 lbs)	6.8 kg (15.0 lbs)	8.0 kg (17.6 lbs)	4.5 kg (9.9 lbs)	5.4 kg (11.9 lbs)	6.0 kg (13.2 lbs)	7.3 kg (16.1 lbs)	9.8 kg (21.6 lbs)

Optional Equipment Modules

UV Concierge

Available for WEB, IOS, and Android platforms providing live, dynamic feedback on all features and functions of your UV system.



Water Quality Monitor

Installs on all Eagle Water 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 150' (46m) away.



Custom Dealer Programmer

Customize your UV controller with your own company name, logo, website, QR code and contact information. Capture the lucrative replacement lamp market by creating a direct link back to your own website!



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 reactors. (see chart for part numbers)



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. Available in 110V. (MOD-SOL1-EWT) or 230V. (MOD-SOL2-EWT)



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. Order MOD-420-EWT.



Remote Alarm (Dry Contact) Module

Used for signal transfer to a remote alarm or dry contacts. Order MOD-RAM-EWT.



Lamp Life: UV lamps are rated for 9,000 hours of continuous use (10,000 hours for EWT5/6-C units) (one-year of operation).

General Operation and Maintenance: UV lamps are to be replaced on an annual basis (9,000 hours of operation for EWT5/6 units and 10,000 hours for EWT5/6-C units). Quartz sleeves and UV sensors are to be cleaned every 6-12 months and replaced every 5 years.

This Class B system or component conforms to NSF/ANSI 55 for the supplemental bactericidal treatment of disinfected public drinking water or other drinking water that has been tested and deemed acceptable for human consumption by the state or local health agency having jurisdiction. The system is only designed to reduce normally occurring non-pathogenic, nuisance microorganisms. Class B systems are not intended for treatment of contaminated water.

While testing was performed under standard laboratory conditions, actual performance may vary.

The systems and installation shall comply with applicable provincial/state and local regulations.

Eagle Water Treatment Systems

501 Rivière Sud
St-Eustache, Quebec
Canada J7R 0E1
1-800-363-6365
info@eaglewater.ca



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Carbon Neutral



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