



## CONTROL YOUR OWN WATER QUALITY!

Models: LTW-502/602, LTW-503/603, LTW-506/606, LTW-510/610, LTW-515/615, LTW-520/620

If you are unsure of the microbiological quality of your source water or if you are looking for additional security from your municipal water source, then <COMPANY NAME> has the solution in the LIGHTWAVE UV DISINFECTION series of residential UV systems.

UV technology is proven to control microbiological (bacteria & virus) issues in water including *E.coli*, *Cryptosporidium* and *Giardia lamblia*.

LIGHTWAVE UV DISINFECTION provides the ultimate in UV protection for your home with the inclusion of a true 254nm Teflon® based UV sensor on LTW-6 systems that continuously monitors the performance of the UV system and displaying the output via a colour screen (optional on LTW-5 systems). In addition to UV output, diagnostics, system status, warnings, even QR codes are included.

With the integral expandability port, the addition of a 4-20mA output or a solenoid valve is a simple plug-and-play option!

### Product Features

- Free floating (no cable twist), keyed-in-place, 254nm Teflon® based UV sensor continuously measures and displays UV output (as a%) (std. on LTW-6, optional on LTW-5)
- Colour screen controller with lamp key for protected lamp replacement, includes QR codes, full diagnostics & warnings
- "Future-proof" expandability port for future upgrades and options
- Axial flow, 304 stainless steel polished reactors, designed & manufactured to ASME pressure vessel standards
- User friendly bayonet style lamp connector (quick¼ 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)
- Constant current electronic controller (one controller for all
- LP 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.)

### Sample Screens



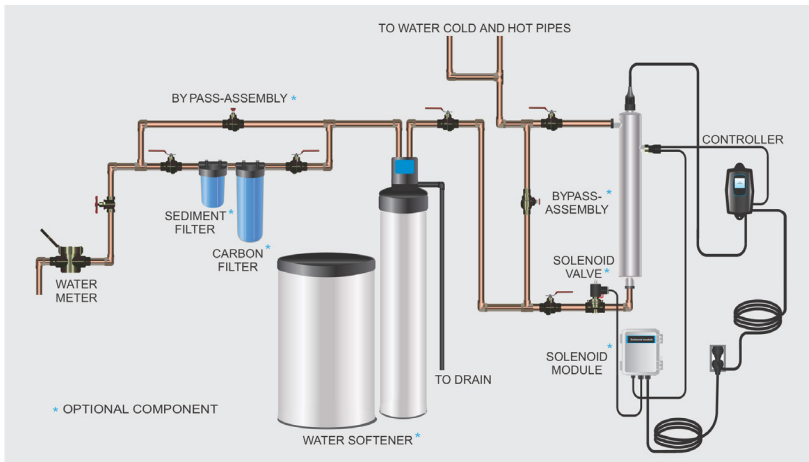
#### Point-of-Use (POU)

LTW-502/602 series, for flow rates of 8 lpm (2 gpm)  
 LTW-503/603 series, for flow rates of 11 lpm (3 gpm)

#### Point-of-Entry (POE)

LTW-506/606 series, for flow rates of 23 lpm (6 gpm)  
 LTW-510/610 series, for flow rates of 41 lpm (11 gpm)  
 LTW-515/615 series, for flow rates of 57 lpm (15 gpm)  
 LTW-520/620 series, for flow rates of 79 lpm (21 gpm)

## Typical POE Installation



## 5.1/6.1 SO - Equipment Specifications

Standard-output						
Model	LTW-502 LTW-602	LTW-503 LTW-603	LTW-506 LTW-606	LTW-510 LTW-610	LTW-515 LTW-615	LTW-520 LTW-620
Flow Rate (30mJ/cm <sup>2</sup> @ 95% UVT)	2 GPM	3 GPM	6 GPM	11 GPM	15 GPM	21 GPM
	7.6 lpm	11.4 lpm	22.7 lpm	41 lpm	57 lpm	79 lpm
Flow Rate (40mJ/cm <sup>2</sup> @ 95% UVT)	0.45 m <sup>3</sup> /hr	0.7 m <sup>3</sup> /hr	1.4 m <sup>3</sup> /hr	2.5 m <sup>3</sup> /hr	3.4 m <sup>3</sup> /hr	4.8 m <sup>3</sup> /hr
	1.6 GPM	2.4 GPM	4.4 GPM	8.3 GPM	12 GPM	16 GPM
Flow Rate (16mJ/cm <sup>2</sup> @ 95% UVT)	6.1 lpm	9.1 lpm	17 lpm	31 lpm	45.4 lpm	59 lpm
	0.36 m <sup>3</sup> /hr	0.5 m <sup>3</sup> /hr	1.0 m <sup>3</sup> /hr	1.9 m <sup>3</sup> /hr	2.7 m <sup>3</sup> /hr	3.6 m <sup>3</sup> /hr
Port Size	4 GPM	6 GPM	11 GPM	20 GPM	30 GPM	39 GPM
	15.1 lpm	23 lpm	41 lpm	77 lpm	114 lpm	150 lpm
Electrical	90-265V/50-60Hz. 1A Max.					
Plug Type	American, NEMA 5-15P					
Lamp Watts	8	15	22	39	50	42
Power (Watts)	14	20	30	49	62	51
Maximum Current (amps)	1	1	1	1	1	1
Replacement Lamp	LTW-RL210	LTW-RL290	LTW-RL470	LTW-RL820	LTW-RL999	LTW-RL850
Replacement Sleeve	LTW-QS210	LTW-QS290	LTW-QS470	LTW-QS820	LTW-QS999	LTW-QS850
Chamber Material	Polished 304 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 36.1" (8.9 x 91.7cm)
Controller Dimensions	17.2 x 9.2 x 10.2 cm (6.8 x 3.6 x 4")					
Operating Pressure	7-10.3 bar (10-150 psi)					
Operating Water Temp.	2-40° C (36 - 104°F)					
UV Monitor	YES on LTW-6 (optional on LTW-5), LTW-RSB25					LTW-RSB35 optional on LTW-5
Solenoid Output	YES (but requires optional solenoid module) (LTW-SOL1)					
Dry Contacts	YES (but requires optional remote alarm module) (LTW-RAM)					
4-20mA Output	YES (but requires optional 4-20mA module) (LTW-420)					
Lamp Change Reminder	YES (both audible and visual (full colour graphic))					
Lamp Out Indicator	YES (both audible and visual (full colour graphic))					
Shipping Weight	2.9 kg (6.3 lbs)	3.6 kg (7.9 lbs)	4.4 kg (9.6 lbs)	6.0 kg (13.2 lbs)	6.5 kg (14.4 lbs)	8.2 kg (18.0 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

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.



### 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.



### 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.



### 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

**REACTORS** - Ten (10) year Limited Warranty  
**ELECTRONICS** - Three (3) year Limited Warranty  
**UV LAMPS** - One (1) year Limited Warranty  
**QUARTZ SLEEVES** - One (1) year Limited Warranty



See website for complete warranty document including conditions and exclusions.



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