

## CONTROL YOUR OWN WATER QUALITY!

Models: CWUV4-2, CWUV4-3, CWUV4-6, CWUV4-11, CWUV4-15, CWUV4-21

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 Charger Water has the solution in the CWUV4 series of multi-use UV systems.

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

Designed for easy, do-it-yourself installation, a Charger Water CWUV4 system can be installed on a single tap, or for even greater protection of the home's drinking water, installed at the point-of-entry, thereby treating all the water coming into the home!

### Product Features

- Integral lamp life monitor, with both audible and visual indication of lamp life
- Axial flow, 304 stainless steel polished reactors
- Visual sight port for "lamp-on" verification
- Designed & manufactured to ASME pressure vessel standards
- Flow rates stated at 95% UVT at a dose of 30mJ/cm<sup>2</sup>
- True gland seal retaining nut with positive stop
- User friendly bayonet style lamp connector (quick ¼ turn removal with no extra tools needed)
- Reliable, industry proven, proprietary low pressure (LP) coated UV lamps with ceramic bases for durability and long life (9,000 hours)
- Constant current electronic controller (one controller for all systems) in a splash proof case, fully potted ballast virtually eliminates common water damage issue
- Audible & visual lamp failure indicators
- Tactile selector button



### Point-of-Use (POU)

**CWUV4-2 series**, for flow rates of 8 lpm (2 gpm)

**CWUV4-3 series**, for flow rates of 11 lpm (3 gpm)

### Point-of-Entry (POE)

**CWUV4-6 series**, for flow rates of 23 lpm (6 gpm)

**CWUV4-11 series**, for flow rates of 41 lpm (11 gpm)

**CWUV4-15 series**, for flow rates of 57 lpm (15 gpm)

**CWUV4-21 series**, for flow rates of 79 lpm (21 gpm)

### Manufacturer's Warranty

**REACTORS** - Ten (10) year Limited Warranty

**ELECTRONICS** - Three (3) year Limited Warranty

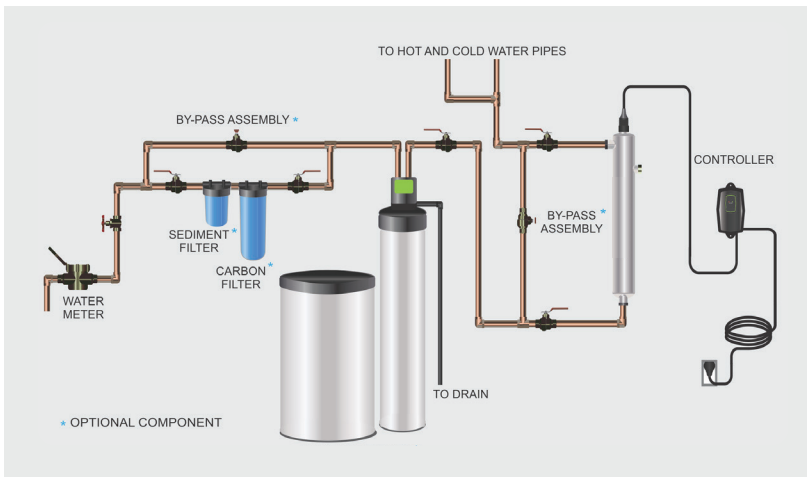
**UV LAMPS** - One (1) year Limited Warranty

**QUARTZ SLEEVES** - One (1) year Limited Warranty

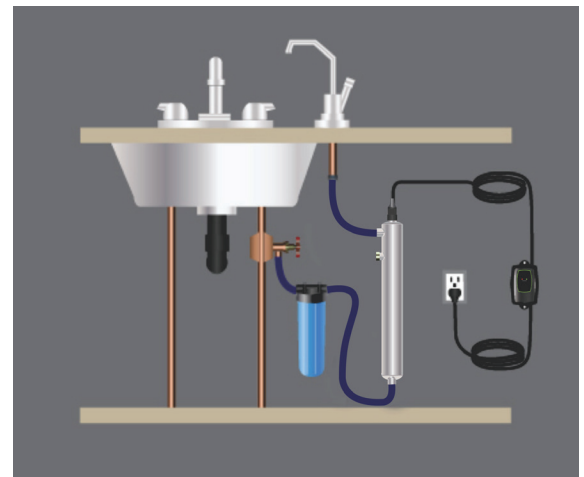


Contact Charger Water for complete warranty document including conditions and exclusions.

## Typical POE Installation



## Typical POU Installation



## 4.1 SO - Equipment Specifications

Standard-output						
Model	CWUV4-2	CWUV4-3	CWUV4-6	CWUV4-11	CWUV4-15	CWUV4-21
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
	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
Flow Rate (40mJ/cm <sup>2</sup> @ 95% UVT)	1.6 GPM	2.4 GPM	4.4 GPM	8.3 GPM	12 GPM	16 GPM
	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
Flow Rate (16mJ/cm <sup>2</sup> @ 95% UVT)	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
	0.9 m <sup>3</sup> /hr	1.4 m <sup>3</sup> /hr	2.5 m <sup>3</sup> /hr	4.6 m <sup>3</sup> /hr	6.8 m <sup>3</sup> /hr	8.9 m <sup>3</sup> /hr
Port Size	½" FNPT	½" MNPT	¾" MNPT	¾" MNPT	1" MNPT	1" MNPT
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	CWUV-L210	CWUV-L290	CWUV-L470	CWUV-L820	CWUV-L999	CWUV-L850
Replacement Sleeve	CWUV-Q210	CWUV-Q290	CWUV-Q470	CWUV-Q820	CWUV-Q999	CWUV-Q850
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)					
Lamp Change Reminder	YES (4-digit LED display)					
Visual Lamp Out Indicator	YES					
Audible Lamp Out Indicator	YES					
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)

## 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 systems 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.

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