

RACK SYSTEMS



Systems feature one-piece, 2-sump filter heads for a leak-free design
(On 2-sump units only)

120 psi operating pressure, o-ring groove for fail-safe installation, silicon lubricant, pressure relief valve

CONVENIENT ALL-IN-ONE UV/FILTER SYSTEMS

Models HWUV4/5-Z1, HWUV4/5-Z2, HWUV4/5-Z12, HWUV4/5-Z2C, HWUV4/5-Z12C, HWUV4/5-Z22C

POLAR UV DISINFECTION SYSTEMS's new line of rack-mounted UV/ filtration systems offer the convenience of an all-in-one package making installation a simple "in & out" connection.

Designed to effectively treat flow rates of 8 & 15 gpm, POLAR UV's rack-mounted UV's provide the required 5 micron pretreatment with the option of a full-flow, carbon filter to treat taste and odour. Installation of a UV system has never been easier with an innovative design that allows for feedwater to enter the filters from either the right or left side of the unit.

Based on POLAR UV's groundbreaking modular UV systems, the rack-mount UV's offer the flexibility of being "factory ready" to accept a UV Intensity Module in the future if so desired. The POLAR UV plug and play platform has the most advanced residential controller on the market with a colour screen user interface giving a multitude of screens displaying diagnostics, status, warnings and even QR codes for a link back to POLAR UV's website.

Sample Screens

 <p>POLAR UV Disinfection Systems Tel 866-289-6475 www.totalwells.com/locations Tel 800-972-5945 www.westernhydro.com/locations</p>	 <p>POLAR UV Disinfection Systems 375 Days Lamp Life Remaining</p>	 <p>Warning lamp expired 1 days ago Contact dealer for more information</p>	 <p>Contact dealer for more information</p>	<p>Maintenance Parts Lamp: HWUV-L820 Sleeve: HWUV-Q820 Sensor: HWUV-S1 Controller: HWUV56-C</p>
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Product Features

- One-piece, 2-sump design for leak free operation, (pressure relief, wrench, and new integral hanging clip included with all systems)
- LED lamp countdown (4.1 variants)
- Controller with Lightlock™ technology for protected lamp sales (5.1 variants)
- Universal mounting configuration (left or right access)
- NSF component listed filtration cartridges (included with systems)
- "Future-proof" expandability port for future upgrades and options
- Axial flow, 316L stainless steel polished reactors, fully polished, designed & manufactured to ASME pressure vessel standards
- Reliable, industry proven, coated UV lamps, (9,000 hour life on HWUV4/5 series and 10,000 hour life on HWUV4/5-C series)
- Full customization available as an option (language, home screen, phone, QR codes, etc.)

Guaranteed OEM Lamp Replacement with Lightlock™ technology



Tired of losing that lucrative replacement lamp sale to a cut-rate online marketer or to an inferior offshore manufacturer? Protect your replacement lamp revenue stream with POLAR UV's truly proprietary UV lamps with Lightlock™ technology. Maintain your lamp sales and more importantly your lamp margin all while protecting the integrity of the product and its performance.

POLAR UV 5.1/6.1 - Equipment Specifications

RACK-MOUNT UV SYSTEMS						
Model	HWUV4-Z1 HWUV5-Z1	HWUV4-Z2 HWUV5-Z2	HWUV4-Z12 HWUV5-Z12	HWUV4-Z2C HWUV5-Z2C	HWUV4-Z12C HWUV5-Z12C	HWUV4-Z22C HWUV5-Z22C
Flow Rate (30mJ/cm ² @ 95% UVT)	8.0 GPM			15.0 GPM		
	30.3 lpm			56.8 lpm		
	1.82 m ³ /hr			3.4 m ³ /hr		
1st Filter Housing	5 micron sediment HWUV-105S	5 micron sediment HWUV-205S	5 micron sediment HWUV-105S	5 micron sediment HWUV-205S	5 micron sediment HWUV-105S	5 micron sediment HWUV-205S
2nd Filter Housing	N/A	N/A	High- capacity carbon HWUV-20C	N/A	High- capacity carbon HWUV-20C	High- capacity carbon HWUV-20C
Port Size	1" MNPT					
Electrical	90-265V/50-60Hz.					
Plug Type	North American, Nema 5/15, for all 110V systems					
Lamp Watts	20 (standard-output lamp)			45 (high-output lamp)		
Power (Watts)	23 (21 @ 230V.)			57 (48 @ 230V.)		
Max Current (amps)	1					
Chamber Material	Polished 316L stainless steel, A249 pressure rated tubing					
Reactor Dimensions	3.5 x 20.0" (8.9 x 50.8 cm)					
Controller Dimensions	6.8 x 3.6 x 3" (17.2x9.2x7.6 cm)			8.6 x 4.2 x 3.5" (21.7x10.8x8.9 cm)		
Operating Pressure	0.7-8.3 bar (10-120 psi)					
Operating Water Temperature	2-40° C (36-104° F)					
Replacement Lamp	HWUV-L420			HWUV-L420C		
Replacement Sleeve	HWUV-Q420					
UV Monitor	Optional (requires additional UV sensor module) (HWUV-S2 on HWUV5 units & HWUV-S3 on HWUV5-C units)					
Solenoid Output	YES (but requires optional solenoid module) (MOD-SOL1-HWUV)					
Dry Contacts	YES (but requires optional remote alarm module) (MOD-RAM-HWUV)					
4-20mA Output	YES (but requires optional 4-20mA module) (MOD-420-HWUV)					
Lamp Change Reminder (audible & visual)	YES					
Lamp Out Indicator (audible & visual)	YES					
Shipping Weight	8.0 kg. (17.6 lbs.)	9.0 kg. (19.8 lbs.)	16.6 kg. (36.6 lbs.)	15.2 kg. (33.5 lbs.)	15.2 kg. (33.5 lbs.)	18.1 kg. (39.9 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 POLAR 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!



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-HWUV)



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-HWUV.



Remote Alarm (Dry Contact) Module

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

