

RC Series ULTRAVIOLET DISINFECTION SYSTEMS

Microbiological Inactivation!



Certified to
ANSI/NSF 55A

Ultraviolet disinfection systems are fast becoming the choice treatment in drinking water, process & wastewater applications all over the world in the industrial, commercial and residential markets. UV systems offer several advantages over other conventional methods of disinfection.

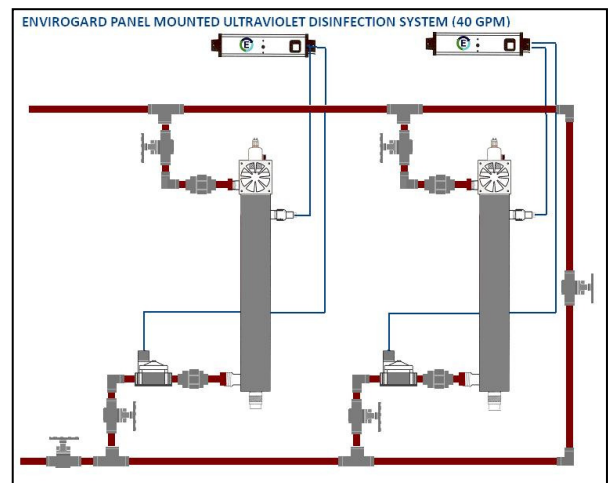
Rainfresh RC series UV systems are designed for online water disinfection using the germicidal properties of ultraviolet (UVC) light at 254nm wavelength.

RC series UV systems deliver a UV fluence of $> 40\text{mJ}/\text{cm}^2$ throughout the lamp life. These units are tested and certified to NSF/ANSI 55A & CSA B483.1. They feature full UV sensor, audio-visual alarms and output for solenoid shut-off and even remote monitoring. They also feature a lamp replacement reminder alarm to ensure UV lamps are replaced on time.

These features make the RC series UV systems most suitable for commercial applications such as campgrounds, restaurants, motels, hotels, hospitals, daycare centers, kitchens & fast food restaurants etc.

RC series UV systems are available as individual boxed units or also as multiple units in parallel, mounted on Rainfresh panel systems, that can be designed to disinfect water at flow rates up to 120 US GPM.

The pre-mounted panel comes with 1" NPT to 3" NPT connections, which includes drain ports, shut-off valves, couplings etc. The panel can be easily wall mounted and plumbed in for start-up. The system also includes safety solenoid valves that shut the water off in case of system malfunction.



Features and specifications

Total Flow Capacity	Min 8 US GPM up to 30 US GPM.
UV Dose at rated flow	$> 40\text{mJ}/\text{cm}^2$ at end of lamp life
Certification	NSF/ANSI 55 Class A Certified
Alarms	Visual & audible notification
Monitoring	Continuous UV transmittance feedback
Solenoid Valve	Auto shut-off fail-safe valve so only safe water can pass the system.
Maintenance	Automatic lamp replacement alarm reminder
Inlet & Outlet Connections	1" NPT to 3" NPT connection for easy installation
Maximum Pressure	100 PSI, 690 kPa (tested to 240 PSI)
Dynamic flow regulator	Maintains rated flow with minimal pressure drop
Voltage	120/220 VAC
Electronic ballast	Auto power regulated, protected from power fluctuations
Electrical	CSA certified

Feed Water Conditions

- Hardness : < 5 GPG
- Iron : < 0.3 PPM
- Manganese : < 0.05 PPM
- % UV Transmittance : > 75%
- Water pH : 6.0 to 9.0
- Total Dissolved Solids : < 1000 PPM
- Water Temperature : 1°C (34°F) – 38°C (100°F)
- Turbidity : < 1 NTU
- Water Pressure : 5 (34 kPa) – 100 psi (690 kPa)



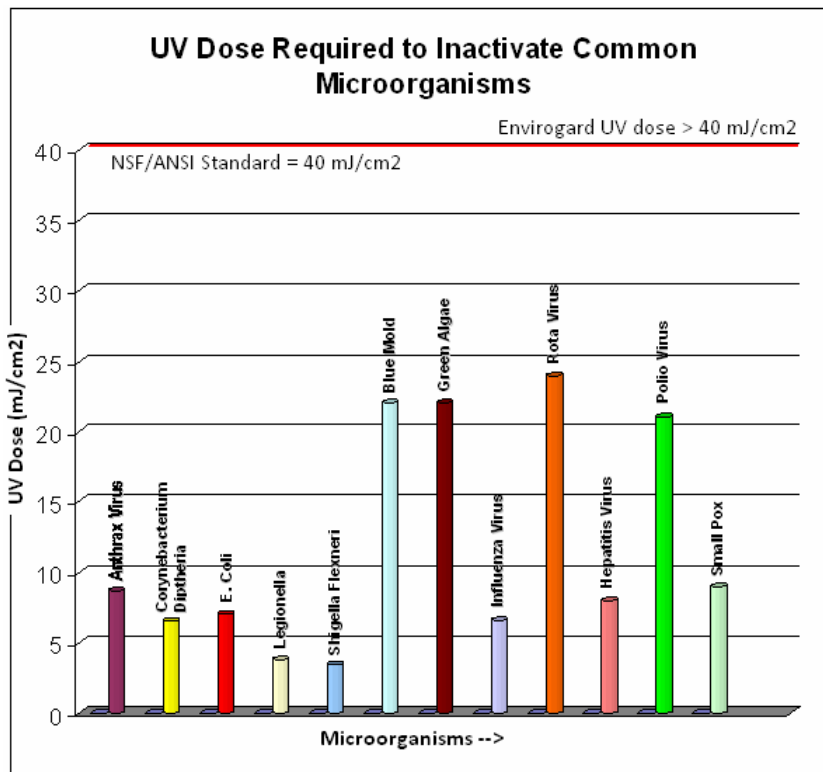
Models & Specifications

MODEL	Rated Flow \ddagger	Inlet / Outlet	UV Dose	Chamber	CSA B483.1	NSF 55A	UV Sensor	Audio/ Visual Alarm	Solenoid output*
RC8	8 GPM	¾" NPT	> 40 mJ/cm ²	SS304	Yes	Yes	Yes	Yes	Yes
RC11	11 GPM	¾" NPT	> 40 mJ/cm ²	SS304	Yes	Yes	Yes	Yes	Yes
RC14	14 GPM	1" NPT	> 40 mJ/cm ²	SS304	Yes	Yes	Yes	Yes	Yes
RC20	20 GPM	1" NPT	> 40 mJ/cm ²	SS304	Yes	Yes	Yes	Yes	Yes
RC30	30 GPM	1.5" NPT	> 40 mJ/cm ²	SS304	Yes	Yes	Yes	Yes	Yes

\ddagger - US GPM, 1 US GPM = 3.785 L

* - Solenoid Valve sold separately

Call Envirogard for details.



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