

Commercial UV

Water Disinfection Systems



Rainfresh Commercial UV Systems are highly effective in ensuring microbiologically safe water for your facility. Germicidal ultraviolet light (UVC) at 254 nm wavelength is produced by special high-output UV lamp(s) inside quartz sleeve(s), placed in SS304 housing. As the water flows through the UV housing, it is subjected to a lethal dose of $> 40 \text{ mJ/cm}^2$ at the rated flow, instantaneously inactivating bacteria, cysts and viruses. The result is a simple, cost effective way of treating water without the use of chemicals!

Rainfresh commercial UVs are ideal for industrial, utility and process water.

FEATURES

- Highly effective against water-borne bacteria like E. coli and viruses.
- **Compact Design!** Rainfresh Commercial UV Systems are one of the most compact UV systems in the industry.
- **High Output UV Lamps!** All Rainfresh UV systems incorporate high-output germicidal UV lamps for maximum UV energy.
- **Efficient Controller!** Rainfresh commercial UV systems are driven by a highly efficient microprocessor-controlled ballast which maintains consistent UV output regardless of voltage or frequency variations.
- **Automatic Lamp Replacement Reminder!** After one year of service, the ballast sets off an audible and visual reminder, notifying you to replace the lamp.
- **Easy to Maintain!** Regular maintenance is extremely simple and can be performed in minutes without tools.



Delivers over
40 mJ/cm^2 UV dose
at rated flow



Available as single units or factory-built panels for higher flow rates

TECHNICAL SPECIFICATIONS

Models →	R20	R40	R50
Maximum Rated Flow Rate GPM (LPM)	20 (75)	40 (151)	50 (189)
UV Dose at rated flow	> 40mJ/cm ²		
Total Power Consumption	65 W	132W	180W
Reactor Chamber Material	304 Stainless Steel		
Inlet/Outlet Port Size	1" MNPT	1.25" MNPT	1.25" MNPT
Chamber Dimensions (LxD)	31.5" x 4.0"	34" x 4.0"	45" x 4.0"
Number of lamps	1	2	2
UV Lamp model	R1245L	R1245L	RC20L
Controller Dimensions	5.15"L x 1.7"D x 2.2"H		
Lamp Service Life	9000 hours of use		
Annual Lamp Change Timer	Yes		
Lamp-ON Indicator	Yes		
Lamp-Failure Audible/ Visual Indicator	Yes		
Lamp Change Grace Period	28 days		
Maximum Operating Pressure	100 psi (689 kPa)		
Maximum Ambient Temperature	50°C (122°F)		
Water Temperature Range	4 – 37°C (40 – 100°F)		

WARRANTY

Following are the warranties against defects in materials &/or workmanship.

7 Years – Stainless steel chamber

1 Year - Miscellaneous hardware, seals and ballast.

See warranty card for details



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