

# Ultraviolet (UV) Water Disinfection System



Rainfresh UV system provides ultimate protection for your home against microbiological contamination. Based on the proven technology of UV-C, Rainfresh UV system delivers a strong kill dose of  $>40\text{mJ}/\text{cm}^2$  that destroys microbes in your water and gives you peace of mind

Effective against

- Bacteria
- Viruses
- Coliform (E. coli)
- Parasitic cysts

For use on well, lake, cistern or even municipally treated water. So use in your home or cottage

Ideal for most homes with 2 to 3.5 bathrooms

## Features & Benefits

- Natural non-chemical treatment
- Just leave on for 24/7 protection
- Makes all the water in the home safe, including toilets and outside taps
- Easy to install and maintain
- Compact design
- Sophisticated electronic power source with digital lamp life display
- Audiovisual alarm with error code in case of system malfunction.
- Audio and visual reminder for UV lamp change
- Specially engineered high output UV lamp for maximum and reliable protection



PROTECTS AGAINST

- BACTERIA
- CYSTS
- VIRUSES

Kills  
E. coli &  
Coliform



Typical installation



Tested and certified by CSA Group to CSAB483.1 and to NSF/ANSI 61 for material and structural requirements only.

UV dose performance validated by independent laboratory

# Ultraviolet (UV) Water Disinfection System

## Technical Specifications

MODEL ►	R519	R830	R830F	R1245
Suitable for homes with # of bathrooms	Up to 2	2 to 3 ½	2 to 3 ½	Up to 4 1/2
Max Rated Flow (US GPM)	5	8	8	12
UV Dose at rated flow	> 40 mJ/cm <sup>2</sup>			
AC Supply Voltage	110V AC, 50/60 Hz, 0.8A			
Max Power Consumption	30W	40W	40W	65W
UV Lamp Service Life	9,000 hours (Approx 1 year of continuous use)			
Digital lamp life display	Yes			
Annual lamp change timer	Yes			
Lamp-ON Indicator	Yes			
Audio/Visual alarms	Yes			
Lamp change grace period	Yes			
Grace period audio alarm disable	Yes			
Reactor chamber material	Stainless Steel 304			
Inlet/Outlet port size	¾" Male NPT			
Chamber dimensions (L x D)	16"L x 3.5" dia	23"L x 3.5" dia	23"L x 3.5" dia	32"Lx3.5" dia
Controller dimensions (L x D x W)	5.15"x1.7"x2.2"	7" x 1.7" x 2.3"		
Maximum operating pressure	100 psi (689 kPa)			
Maximum ambient temperature	50 °C (122°F)			
Water temperature range	4 – 37°C (40 -99°F)			
Free clearance required at top	20"	24"		36"
Pre-filter included	No	No	Yes	No

**Raw Water Quality:** The unit should only be operated with water that meets the following minimum criteria: UV Transmittance > 85%, Turbidity < 1 NTU ; Hardness < 7 GPG, Iron < 0.3 PP<, Manganese < 0.05 PPM, Tannins & Colour = 0. Water test is recommended as quality exceeding above parameters may require additional pre-treatment.



Included with UV unit.



Included with model R830F UV unit.

7 year limited warranty



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