

INDUSTRY LEADING. WATER TREATMENT. UV TECHNOLOGY.



RainHarvest Systems offers several RainFlo ultraviolet disinfection solutions for indoor non-potable and potable* plumbing and irrigation applications. UV technology is proven to control microbiological issues in water. RainFlo UV systems include sensors that continuously monitor performance and display the output, diagnostics, system status, and warnings. Easily control the water quality in your application with a RainFlo UV system.

Features:

- Tri-color or full color screen controller
- Full diagnostics and warnings
- UV sensor continuously measures and displays UV output (as a % or mW/cm²) on select models
- “Future-proof” expandability port for future upgrades and options
- Axial flow, 316L stainless steel polished reactors
- Bayonet style lamp connector
- 9,000+ hour long life UV lamps, 5,000 hours UVC LED life
- Constant current electronic controller
- Full customization options available

ORDERING INFORMATION

System	Model	Description	Replacement P/N	
			Lamp	Sleeve
LED System	RF4-LED	0.4-1.3 GPM, 5,000 hour LED life, integrated control	N/A	N/A
Standard Output Residential System	RF5-3	2.4-6 GPM, 15W, 9,000 hour lamp life, full color LCD controller	RF-L290	RF-Q290
	RF4-6	4.4-11 GPM, 22W, 9,000 hour lamp life, tri-color LED controller	RF-L470	RF-Q470
	RF4-11	8.3-20 GPM, 39W, 9,000 hour lamp life, tri-color LED controller	RF-L820	RF-Q820
	RF4-21	16-39 GPM, 42W, 9,000 hour lamp life, tri-color LED controller	RF-L850	RF-Q850
High Output Residential Crossover System	RF4-10C	7-19 GPM, 34W, 10,000 hour lamp life, tri-color LED controller	RF-L330C	RF-Q330
	RF4-15C	11-27 GPM, 45W, 10,000 hour lamp life, tri-color LED controller	RF-L420C	RF-Q420
	RF4-25C	19-47 GPM, 67W, 10,000 hour lamp life, tri-color LED controller	RF-L600C	RF-Q600
	RF6-25C	19-47 GPM, 67W, 10,000 hour lamp life, full color LCD controller	RF-L600C	RF-Q600
	RF6-40C	31-78 GPM, 101W, 10,000 hour lamp life, full color LCD controller	RF-L950C	RF-Q950
Light Commercial System	RFC6-85	35-167 GPM, 207W, 12,000 hour lamp life, control panel with LED display	RF-1000A	RF-Q1000

* The ability of RainFlo UV disinfection panels to create potable quality water is dependent on incoming water quality. Refer to the RainFlo UV system product manual for incoming water quality requirements. RainHarvest Systems is not responsible for incoming water quality. Please check with your local authority for applicable codes and guidelines as the ability to use rainwater for potable applications varies by jurisdiction. The suitability of the water quality produced by the RainFlo UV disinfection panels for its intended use must be verified by the system owner through regular testing.

EQUIPMENT SPECIFICATIONS - RESIDENTIAL SYSTEMS



	Standard Output - Multi-Use/Residential Systems				
Model	RF5-3	RF4-6	RF4-11	RF4-21	RF4-LED
Flow Rate (16 mJ/cm ² @ 95% UVT)	6.1 GPM	11 GPM	20 GPM	39 GPM	1.3 GPM
Flow Rate (30 mJ/cm ² @ 95% UVT)	3.1 GPM	5.8 GPM	11 GPM	21 GPM	0.6 GPM
Flow Rate (40 mJ/cm ² @ 95% UVT)	2.4 GPM	4.4 GPM	8.3 GPM	16 GPM	0.4 GPM
Port Size	½" MNPT	¾" MNPT	¾" MNPT	1" MNPT	¾" OD tube
Electrical	90-265V/50-60Hz				Standard 12VDC barrel connector
Plug Type	American: Nema 5/15				-
Lamp Watts	15	22	39	42	-
Power (Watts)	20	30	49	51	15
Replacement Lamp	RF-L290	RF-L470	RF-L820	RF-L850	N/A
Replacement Sleeve	RF-Q290	RF-Q470	RF-Q820	RF-Q850	N/A
Chamber Material	304 stainless steel, A249 pressure rated tubing, polished and passivated				N/A
Reactor Dimensions	2.5 x 14.3"	2.5 x 21.3"	2.5 x 35.2"	3.5 x 36.1"	Overall: 9.5 x 4.1 x 4.2"
Controller Dimensions	6.8 x 3.6 x 3"				
Max Operating Pressure	150 PSI				100 PSI
Operating Temp. Range	36°-104°F				32-113°F (water temp.)
UV/LED Monitor	Optional, RF-S1	N/A	N/A	N/A	Yes
Lamp Change Reminder/Out Indicator	Yes (both audible and visual)				-

Controllers



The RF4 series controller provides system status and a 4-digit LED display to indicate lamp life remaining or total running time in a splash-proof case. It features both audible and visual lamp failure indicators.



The RF5 series controller features a full color LCD screen providing a detailed description of the system's performance in addition to any fault messages and system diagnostics. The controller includes an "infinite expandability port" for future upgrades and options. The optional UV sensor module will monitor the UV intensity of the system.

EQUIPMENT SPECIFICATIONS - HIGH OUTPUT/COMMERCIAL SYSTEMS



	High Output - Residential Crossover Systems					Light Commercial Amalgam UV Systems
Model	RF4-10C	RF4-15C	RF4-25C	RF6-25C	RF6-40C	RFC6-85
Flow Rate (16 mJ/cm ² @ 95% UVT)	19 GPM	27 GPM	47 GPM	47 GPM	78 GPM	167 GPM (Alt. Flow-US Public Health)
Flow Rate (30 mJ/cm ² @ 95% UVT)	10 GPM	15 GPM	25 GPM	25 GPM	40 GPM	85 GPM
Flow Rate (40 mJ/cm ² @ 95% UVT)	7 GPM	11 GPM	19 GPM	19 GPM	31 GPM	67 GPM
Port Size	3/4" MNPT	1" MNPT	1" MNPT	1" MNPT	1 1/2" MNPT	2"
Electrical	90-265V/50-60Hz					230V/50-60Hz
Plug Type	North American, NEMA 5/15, IEC for all 110V systems					North American NEMA 6/15: "5" suffix
Lamp Watts	34	45	67	67	101	207
Power (Watts)	38 (36@230V)	57 (48@230V)	73 (72@230V)	73 (72@230V)	115 (108@230V)	220
Replacement Lamp	RF-L330C	RF-L420C	RF-L600C	RL-600HO	RL-950HO	RF-1000A
Replacement Sleeve	RF-Q330	RF-Q420	RF-Q600	RQ-600	RQ-950	RF-Q1000
Chamber Material	316L stainless steel, A249 pressure rated tubing, polished and passivated					
Reactor Dimensions	3.5 x 16.5"	3.5 x 20.0"	3.5 x 26.9"	3.5 x 26.9"	3.5 x 40.7"	4 x 46.8 x 7"
Controller Dimensions	8.6 x 4.2 x 3.5"					11.8 x 7.9 x 6.3"
Operating Pressure	10-150 PSI					150 PSI (max.)
Operating Temp. Range	36-104°F					36-104° F
UV Monitor	N/A	N/A	N/A	Yes		Yes
Lamp Change Reminder/Out Indicator	Yes (both audible and visual (full color graphic))					Yes

Controllers



The RF4 high output series controller provides system status and a 4-digit LED display to indicate lamp life remaining or total running time in a splash-proof case. It features both audible and visual lamp failure indicators.



The RF6 high output series controllers feature integrated UV intensity monitoring and display remaining lamp life and any error or fault codes. The controller provides a full system diagnostic on start-up and includes a "future-proof" expandability port.



The RFC6 commercial control panel provides monitoring through an integral LED display which in addition to the UV output, displays remaining lamp life, total running hours, audible and visual lamp failure, and remote-on.

EQUIPMENT MODULES - INCLUDED

UV Sensor Port

All RainFlo reactors include an integral UV sensor port for future upgradeability. Simply remove the plug and affix the optional UV sensor.



Remote Monitoring (Dry Contacts) Output (Capability Only)

Allows for the dry contact signal (on/off) provided by the RainFlo controller to be sent to a remote location. Can be used for remote on, solenoid connection, PLC connection, remote alarm, remote visual, or many other options. (Note: Requires optional 210010 cable/connector)



EQUIPMENT MODULES - OPTIONAL

SHERPA Series Water Quality Monitor

Installs on RainHarvest 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.



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.



UV Sensor Module

Allows the 254nm UV wavelength to be measured and displayed via the controller. The sensor plugs directly into the controller and is mounted in the sensor port located on all reactors. (see chart for part numbers)



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.)



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. Order MOD-SOL1-RF



4-20mA Module

Used for signal transfer to a remote device such as a data logger or computer. Order MOD-420-RF.



Remote Monitoring Cable - Optional

Connector and 33' (10m) of cable to remotely control the RainHarvest Systems dry contact signal, order part number 210010.



Remote Alarm (Dry Contact) Module

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

