

## CONTROL YOUR OWN WATER QUALITY!

Models: RF4-5C, RF4-10C, RF4-15C, RF4-25C, RF4-40C

If you are unsure of the microbiological quality of your source water or if you are looking for additional security from your municipal water source, then RainHarvest Systems has the solution in the RAINFLO-HO 4.1 series of UV systems.

UV technology is proven to control microbiological (bacteria & virus) issues in water including *E.coli*, *Cryptosporidium* and *Giardia lamblia*.

Designed for easy do-it-yourself installation, RAINFLO-HO 4.1 systems are typically installed at the point-of-entry, treating all the water coming into the home.

### Product Features

- Now available with integral lamp life monitor, with both audible and visual indication of lamp life
- Axial flow, 316L stainless steel polished reactors,
- Visual sight port for "lamp-on" verification
- Designed & manufactured to ASME pressure vessel standards
- Flow rates stated at 95% UVT at a dose of 30mJ/cm<sup>2</sup>
- True gland seal retaining nut with positive stop
- User friendly bayonet style lamp connector (quick ¼ turn removal with no extra tools needed)
- Reliable, industry proven, proprietary low pressure high output (LP-HO) coated UV lamps with ceramic bases for durability and long life (10,000 hours)
- Constant current electronic controller (one controller for all systems) in a splash proof case, fully potted ballast virtually eliminates common water damage issue
- Audible & visual lamp failure indicators
- Tactile selector button



#### Point-of-Use (POU)

**RF4-5C series**, for flow rates of 19 lpm (5 gpm)

#### Point-of-Entry (POE)

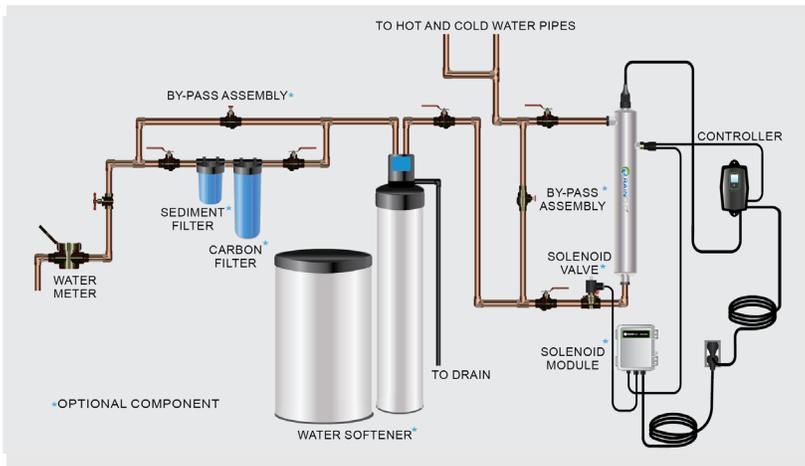
**RF4-10C series**, for flow rates of 38 lpm (10 gpm)

**RF4-15C series**, for flow rates of 57 lpm (15 gpm)

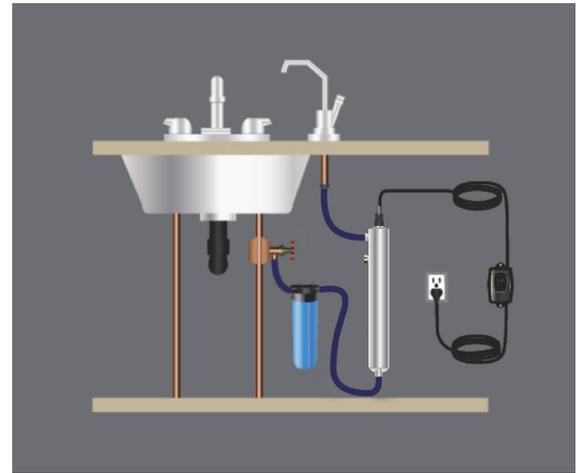
**RF4-25C series**, for flow rates of 95 lpm (25 gpm)

**RF4-40C series**, for flow rates of 151 lpm (40 gpm)

## Typical POE Installation



## Typical POU Installation



## 4.1 HO - Equipment Specifications

### High Output, Residential Crossover systems

| Model  | RF4-5C  | RF4-10C                       | RF4-15C                       | RF4-25C                       | RF4-40C                        |
|--|---|-------------------------------|-------------------------------|-------------------------------|--------------------------------|
| Flow Rate<br>(30mJ/cm <sup>2</sup> @<br>95% UVT) | 5 GPM   | 10 GPM                        | 15 GPM                        | 25 GPM                        | 40 GPM                         |
|  | 18.9 lpm  | 37.9 lpm                      | 57 lpm                        | 95 lpm                        | 151 lpm                        |
|  | 1.1 m <sup>3</sup> /hr  | 2.3 m <sup>3</sup> /hr        | 3.4 m <sup>3</sup> /hr        | 5.7 m <sup>3</sup> /hr        | 9.3 m <sup>3</sup> /hr         |
| Flow Rate<br>(16mJ/cm <sup>2</sup> @<br>95% UVT) | 8 GPM   | 19 GPM                        | 27 GPM                        | 47 GPM                        | 78 GPM                         |
|  | 30.3 lpm  | 71.9 lpm                      | 102.2 lpm                     | 178 lpm                       | 295 lpm                        |
|  | 1.8 m <sup>3</sup> /hr  | 4.3 m <sup>3</sup> /hr        | 6.1 m <sup>3</sup> /hr        | 10.7 m <sup>3</sup> /hr       | 17.7 m <sup>3</sup> /hr        |
| Flow Rate<br>(40mJ/cm <sup>2</sup> @<br>95% UVT) | 3 GPM   | 7 GPM                         | 11 GPM                        | 19 GPM                        | 31 GPM                         |
|  | 11.4 lpm  | 26.5 lpm                      | 41 lpm                        | 72 lpm                        | 117 lpm                        |
|  | 0.7 m <sup>3</sup> /hr  | 1.6 m <sup>3</sup> /hr        | 2.5 m <sup>3</sup> /hr        | 4.3 m <sup>3</sup> /hr        | 7.0 m <sup>3</sup> /hr         |
| Port Size  | 1/2" MNPT   | 3/4" MNPT                     | 1" MNPT                       | 1" MNPT                       | 1 1/2" MNPT                    |
| Electrical                                       | 90-265V/50-60Hz.  |                               |                               |                               |                                |
| Plug Type  | North American, Nema 5/15, IEC for all 110V systems                     |                               |                               |                               |                                |
| Lamp Watts                                       | 18  | 34                            | 45                            | 67                            | 101                            |
| Power (Watts)                                    | 20 (19 @ 230V)  | 38 (36 @ 230V)                | 57 (48 @ 230V)                | 73 (72 @ 230V)                | 115 (108 @ 230V)               |
| Replacement Lamp                                 | RF-L210C  | RF-L330C                      | RF-L420C                      | RF-L600C                      | RF-L950C                       |
| Replacement Sleeve                               | RF-Q210   | RF-Q330                       | RF-Q420                       | RF-Q600                       | RF-Q950                        |
| Chamber Material                                 | 316L Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated |                               |                               |                               |                                |
| Reactor Dimensions                               | 3.5 x 11.7"<br>(8.9 x 29.8cm)   | 3.5 x 16.5"<br>(8.9 x 41.8cm) | 3.5 x 20.0"<br>(8.9 x 50.8cm) | 3.5 x 26.9"<br>(8.9 x 68.3cm) | 3.5 x 40.7"<br>(8.9 x 103.4cm) |
| Controller Dimensions                            | 8.6 x 4.2 x 3.5" (21.7 x 10.8 x 8.9cm)                                  |                               |                               |                               |                                |
| Operating Pressure                               | 0.7-10.3 bar (10-150 psi)   |                               |                               |                               |                                |
| Operating Water Temperature                      | 2-40° C (36-104° F)   |                               |                               |                               |                                |
| Lamp Change Reminder                             | YES (4-digit LED display)   |                               |                               |                               |                                |
| Visual Lamp Out Indicator                        | YES   |                               |                               |                               |                                |
| Audible Lamp Out Indicator                       | YES   |                               |                               |                               |                                |
| Shipping Weight                                  | 4.5 kg<br>(9.9 lbs)   | 5.4 kg<br>(11.9 lbs)          | 6.0 kg<br>(13.2 lbs)          | 7.2 kg<br>(15.9 lbs)          | 9.7 kg<br>(21.4 lbs)           |

## Conditions For Use

Your system will provide years of use provided the system is maintained on a regular basis as per the specifications outlined in the Owner's Manual. For the following system to perform as tested, the following water quality parameters must be met.

| Parameter      | Level              |
|----------------|--------------------|
| Hardness       | < 120 mg/L (7 gpg) |
| Iron (Fe)      | < 0.3 mg/L (ppm)   |
| Manganese (Mn) | < 0.05 mg/L (ppm)  |
| Tannins        | < 0.1 mg/L (ppm)   |
| Turbidity      | < 1 NTU            |
| Transmittance  | > 75% UVT          |

For levels outside those specified in the table above, please contact the factory for further technical assistance.