



*Refer dimensions on page 2*

**GENERAL INFO**

**UV WATER TREATMENT SYSTEMS**

## Ultraviolet Water Treatment Systems

Like all Radfire products, the Radfire<sup>®</sup> R Series is truly flexible and suitable for many applications. Featuring an audible alarm (except R500) and a LED operating light – which means you are in control 24/7.

Environmentally-friendly and chemical free. UV water purification is a natural process that adds no chemicals and does not affect the taste or odour of water. Other methods, such as those that use chlorine, may create harmful chemicals that have been linked with serious illnesses, such as cancer.

Maintenance is simple and can be completed in minutes – without tools. It's as easy as replacing the UV lamp once a year and periodically cleaning the sleeve.

The UV light is generated from a low-pressure, high-output lamp. These lamps provide a high intensity of UV light making it possible to treat a given volume of water with smaller, more efficient units.

**FEATURES & BENEFITS**

- Unique water chamber design
- Water-resistant power supply
- Trouble-free maintenance
- Quick lamp change
- 8,760 hour lamp life
- 304 stainless steel
- LED operation indicator
- Audible Alarm
- 2 Year warranty

**SPECIFICATIONS & PERFORMANCE DATA**

	R500	R1400	R2700	R5000
<b>General</b>				
Plug and play connections	Yes	Yes	Yes	Yes
Chamber material	304 SS	304 SS	304 SS	304 SS
Rated service life of lamp	1 Year	1 Year	1 Year	1 Year
Inlet and outlet connection	1/4"	1/2"	3/4"	1"
Flow rate @30mJ/cm <sup>2</sup>	8 Lpm	23 Lpm	45 Lpm	91 Lpm
Flow rate @16mJ/cm <sup>2</sup>	14 Lpm	28 Lpm	81 Lpm	161 Lpm
No-Tools Maintenance	Yes	Yes	Yes	Yes
Warranty (excluding lamps)	2 Years	2 Years	2 Years	2 Years

**Controls**

Lamp operation indicator	No	Yes	Yes	Yes
Ballast operation indicator	Yes	Yes	Yes	Yes

**Electrical**

Voltage	240V	240V	240V	240V
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Max. current	0.06amps	0.17amps	0.17amps	0.34amps
Max power consumption	18W	28W	45W	90W
Lamp power	14W	24W	39W	78W
High-Output lamp	Yes	Yes	Yes	Yes

**Dimensions**

Chamber	Ø 64 x H 340mm	Ø 64 x H 512mm	Ø 89 x H 900mm	Ø 100 x H 900mm
Power supply	254x76x51mm	254x76x51mm	254x76x51mm	254x76x51mm (2 lamps/ballasts)

**Operating Parameters**

Maximum operating pressure	800kPa	800kPa	800kPa	800kPa
Minimum operating pressure	10kPa	10kPa	10kPa	10kPa
Maximum ambient air temperature	50°C	50°C	50°C	50°C
Minimum ambient air temperature	0°C	0°C	0°C	0°C
Maximum humidity	100%	100%	100%	100%
Maximum hardness	120 mg/L	120 mg/L	120 mg/L	120 mg/L
Maximum iron	0.3 mg/L	0.3 mg/L	0.3 mg/L	0.3 mg/L
Minimum UVT	85%	85%	85%	85%
Installation	Vertical or horizontal	Vertical or horizontal	Vertical or horizontal	Vertical or horizontal

**SPARE PARTS / CONSUMABLES**

Lamp	RL2	RL3	RL4	RL4 (x2)
Quartz Sleeve	RQS2	RQS3	RQS4	RQS4 (x2)
O-Ring	ROR2	ROR2	ROR2	ROR2 (2x)
Power Supply (Ballast)	RES2	RES4	RES4	RES4 (x2)

**ADDITIONAL INFORMATION**

Where the water being treated contains unusually high levels of dissolved solids particularly hard water, iron, manganese or biological organisms, a deposit build up on the quartz sleeve may occur over time. Maximum recommended parameters are as follows:

Iron:	less than 0.3 mg/L
Hydrogen Sulfide:	less than 0.05 mg/L
Suspended Solids:	less than 10mg/L
Manganese:	less than 0.05 mg/L
Hardness:	less than 110mg/L