



Puretec Radfire[®] RI-10K

A feature-laden premium UV system 95-180 litres per minute

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 Puretec has the solution in the Radfire RI series UV systems. UV technology is proven to control microbiological (bacteria & virus) issues in water including E.coli, Cryptosporidium and Giardia lamblia.

This product is truly different from everything else in the market. Flexibility plus a colour user interface with a multitude of screens displaying diagnostics, status, warnings and even QR codes for a link back to Puretec's website, the Radfire RI system's introduce technology never before seen in a UV system. Puretec Radfire's state-of-the-art controller is a constant current electronic power source housed in a splash-proof case and comes standard with a "future-proof" expandability port for future upgrades or options.

The colour user interface allows for easy visual identification of remaining lamp life and any error or fault codes. Rugged 304 stainless steel, single-end reactors come with an integral port to allow for a future upgrade to a UV monitor system. The single-end design allows for lamp change without the need to drain the reactor chamber. Reliable, industry proven, high quality low pressure, high-output (LP-HO) coated UV lamps offer a consistent output over their 10,000 hour life.

Product Features

- Axial flow, 316L stainless steel reactor, polished reactors with integral sensor port to allow for sensor upgradeability in the future (comes standard with visual glow plug)
- Designed & manufactured to ASME pressure vessel standards
- User friendly bayonet style lamp connector (quick ¼ turn removal with no extra tools needed)
- True gland seal retaining nut with positive stop
- Reliable, industry proven low pressure high-output (LP-HO) coated UV lamps with ceramic bases for durability and a 10,000 hour life
- Universal input, constant current electronic controller (one controller for all systems) in a splash-proof case
- "Future-proof" expandability port for future upgrades and options.



Technical Specifications

Model	RI-10K
Flow Rate @ 16 mJ/cm ²	180 Lpm
Flow Rate @ 30 mJ/cm ²	95 Lpm
Flow Rate @ 40 mJ/cm ²	72 Lpm
Port Size	1"
Electrical	110-220V / 50-60Hz
Plug Type	Australian AS/NZ 3112
Lamp (Watts)	67
Power (Watts)	73
Replacement Lamp	RL10K
Replacement Sleeve	RQ10K
Chamber Material	316 Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated
Reactor Dimensions	3.5 x 26.9" (8.9 x 68.3 cm)
Controller Dimensions	8.6 x 4.2 x 3.5" (217.4 x 107.5 x 88.7 mm)
Maximum Operating Pressure	10.3 bar (150 psi)
Operating Temperature Range	2-40° C (36-104° F)
UV Monitoring Port	Upgradeable, includes visual glow plug
Solenoid Output	Optional
Volt Free Output	Optional
Lamp Change Reminder (audible & visual)	Yes
Lamp-Out Indicator (audible & visual)	Yes
Shipping Weight	6.5 kg (14.3 lbs)
Lamp Life (hours)	10,000
Lamp Style	Low Pressure HO

Optional Upgrade Modules

Solenoid Connection



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 RI-SOL

Volt Free Connection



Used for signal transfer to a remote device such as a data logger or computer. Order RI-VFC

UV Sensor Module



Allows the 254nm UV wavelength to be measured and displayed via the Radfire controller. The sensor plugs directly into the controller and is mounted in the sensor port located on all Radfire reactors. Order RI-SEN

Manufacturer's warranty

Reactor	10 Years*
Electronics	3 Years
UV Lamp	1 Year
Quartz Sleeve	1 Year

Puretec water care products are designed, manufactured and supported by Puretec Pty Ltd the name you can trust for viable and proven water solutions. All pictures and information are supplied as a guide only. The complete range of Puretec products are developed, refined, made to meet and exceed stringent specifications for the worldwide market. Please ring to confirm details.

Important Note: Sales of products are subject to our Terms and Conditions which are available upon request. Do not use products with microbiologically unsafe water without adequate disinfection. Under normal circumstances a pressure limiting valve is not required. If incoming water pressure is excessive it may however be necessary to install an approved pressure limiting valve to be fitted in line to prevent excessive running on as pressure is relaxed from the system after the tap is turned off. Maximum flow depends on cartridges, vessel, pressure, impurities etc.