



Puretec Radfire® RI-37K

A feature-laden industrial UV system 322-632 litres per minute

Puretec Radfire Systems meet the same stringent global performance standards as NSF/ANSI 55 Class A systems, without the associated high-cost that typically accompanies these systems.

If microbiological protection is required for your commercial/industrial application, then Puretec has the solution in the Radfire RI series of ultraviolet disinfection systems. Unsure about needing a UV sensor or if regulations require you to add a sensor, there is no need to replace the entire system... simply add a UV sensor module to the Radfire RI reactor as it comes with an integral sensor port built-in! Plug the optional UV sensor into the pre-wired controller and the UV intensity will be displayed on the LED output.

Constructed with highly polished 316L stainless steel reactors and industrial grade enclosures, Radfire RI uses proven low pressure amalgam (LP-AM) lamp technology offering stable output in both hot and cold water applications. Whether you are looking to control microbiological (bacteria & virus) issues in both hot or cold water with UVT levels as low as 50% or to reduce TOC in industrial grade waters, Radfire has you covered. Covering a wide variety of applications in both regulated and unregulated markets, Radfire offers environmentally friendly disinfection at lower capital and operating costs than traditional disinfection solutions.

Product Features

- 316L stainless steel, polished reactors, with integral sensor port to allow for sensor upgradeablility in the future (comes standard with visual glow plug)
- Constant current electronic controller in a splash-proof (IP-54) case with audible and visual lamp failure indicators Modular control panel with LED display for remaining lamp life, total running hours, audible & visual lamp failure, remote on and solenoid ready
- Designed & manufactured to ASME pressure vessel standards
- Reliable, industry proven low pressure amalgam (LP-AM) coated UV lamps with ceramic bases for durability, 12,000 hour lamp life
- · Uniform lamp output in both hot or cold applications
- Flexible vertical or horizontal installation
- User friendly bayonet style lamp connector (quick ¼ turn removal with no extra tools needed)
- True gland seal retaining nut with positive stop.



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Technical Specifications

Model	RI-37K
Normal Flow Rate 30 mJ/cm² @ 95% UVT	85 GPM 322 Lpm
Hot Water Flow Rate 30 mJ/cm ² @ 75% UVT	60 GPM 227 Lpm
LOW UVT Flow Rate 30 mJ/cm² @ 50% UVT	35 GPM 133 Lpm
TOC Flow Rate 150 mJ/cm ² @ 95% UVT	17 GPM 64 Lpm
Alt. flow-US Public Health 16 mJ/cm ² @ 95% UVT	167 GPM 632 Lpm
Alternate flow-NSF/EPA 40 mJ/cm² @ 95% UVT	67 GPM 252 Lpm
Port Size	2"
Electrical	230V/50-60Hz
Plug Type	Australian AS/NZ 3112, 3-wire for all 230V
Lamp (Watts)	207
Power (Watts)	220
Replacement Lamp	RL37K
Replacement Sleeve	RQ37K
Chamber Material	316L Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated
Reactor Dimensions	4 x 46.8 x 5.6" (10 x 119 x 14 cm)
Controller Dimensions	11.8 x 7.9 x 6.3" (30 x 20 x 16 cm)
Maximum Operating Pressure	10.3 bar (150 psi)
Operating Temperature Range	2-60° C (36-148° F)
UV Monitoring Port (Upgradeability)	Yes
Remote - On	Yes
Dry Contacts (Solenoid Ready)	Yes
4-20 mA Output	Yes
Lamp Age Counter	Yes
Visual Lamp-Out Indicator	Yes
Audible Lamp-Out Alarm	Yes
Shipping Weight	Call Factory

Easy lamp change

Experience troublesome lamp changes and broken sleeves no longer with Radfire's new lamp connector. Lamp changes with an effortless ¼ turn of the connector... no fumbling with metal clips as in competitive systems.



Flexible Applications:

Disinfection	Choose your required dose for applications that include restaurants, nursing homes, campgrounds, agricultural, food services, schools, marine, etc.
Hot Water	For use in hot water applications including recirculation loops, showers, cooling towers, etc., designed for the reduction of legionella
Low UVT	For applications where water quality may approach 70% UVT or less, choose the low UVT systems to increase the operational performance and reduce nuisance alarms
тос	For the reduction of TOC (Total Organic Carbon) using UV lamps at 185 nm output

System Features

Remote Monitoring (Dry Contacts) Output (Capability Only) - *Included*



Allows for the dry contact signal (on/off) provided by the 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 Volt Free Connection as shown below)

Volt Free Connection - Optional



Connector and 10 m (33') of cable to remotely control the RI-37K dry contact signal, Order part number RI-VFC

UV Sensor Port



RI-37K reactors include an integral UV sensor port for future upgradeability. Simply remove the plug and affix the optional UV Sensor!

UV Sensor Module - Optional



Allows for the 254nm UV wavelength to be measured and displayed via the Radfire contoller. Sensor plugs directly into the contoller and is mounted in the sensor port located on RI-37K reactors. Order part number RI-SEN

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, imputities etc.

