



# User Guide

## RAS Series

Radfire™ Portable Air Sanitiser System

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## Puretec Customer Service

Thank you for purchasing a Puretec Radfire™ Portable Air Sanitiser system. Your system is a proven performer manufactured from quality materials and components and will give years of fresh air, free of impurities, if maintained and used properly.

For advice or further questions please contact your local Puretec stockist or call our Puretec Customer Service Helpline on **1300 140 140** (Australia) or **0800 130 140** (New Zealand).

The Puretec Radfire™ Portable Air Sanitiser system lamp needs replacing regularly to maintain optimum performance. This is a simple procedure when following instructions. For replacements contact your nearest Puretec stockist.

Replacement lamp code for **RAS-160P** model : Puretec **RL436-4**.

## Introduction

Puretec's Radfire™ Portable Air Sanitiser system is specifically designed for applications where maintaining hygienic conditions at all times is paramount like in healthcare facilities for example.

It uses Radfire™ technology, a natural purification process that's eco-friendly and chemical-free.

This system will effectively treat the air, depending on the required UV dosage and existing air quality.

It has been specifically designed to help reduce HAIs (hospital associated infections) found in healthcare environments.

The system can be used in any areas where cross infections occur due to human congregations during social functions and business practices.

Ideal use for:

- Hospitals - Intensive Care, Burns Unit, Emergency Department, Isolation Rooms etc.
- Out Patients - administration
- Nursing Homes - residents' rooms
- Clinics & Surgeries - Dentist, General Practice, Cosmetic
- Pharmacies
- Classrooms - Schools, Colleges, Universities, Kindergartens, Child Care Centres
- Office & Call Centre Buildings - Workplaces with high density staffing
- Meeting Rooms, Board Rooms and Conference Areas
- Hotels & Resorts - Function Rooms

## Positioning The System

The Puretec Radfire™ Portable Air Sanitiser system can be used anywhere indoors and in occupied areas as it contains all UVC rays within the specially designed cabinet.

## Operation

The Radfire™ Portable Air Santiser comes ready to use. Simply unpack the unit, plug it in and turn it on.

Once the system is turned in, the Radfire™ lamp will ignite and emit a blue glow from each end of the cabinet.

**Note:** The glow is perfectly safe as the rays are completely contained within the cabinet.

The fan will also start operating, drawing air from one end of the unit, pushing the treated air out of the other end.

## Treated Area Coverage

One unit is recommended to treat a room/area with a cubic area of approx. 40 cubic meters.

For example:

A room that measures 4.5 m (W) x 4.5 m (D) x 2.5 m (H).

In a room of this capacity, the Radfire™ Portable Air Santiser will achieve 4 complete cycles of the room volume every hour (60 minutes). Larger rooms/areas will require multiple units based on this ratio.

Calculation of cubic meters:

- length (m) x width (m) x height (m) = cubic meters (m<sup>3</sup>); or
- length (cm) x width (cm) x height (cm) / 1,000,000 = cubic meters (m<sup>3</sup>); or
- length (mm) x width (mm) x height (mm) / 1,000,000,000 = cubic meters (m<sup>3</sup>).

## Specifications

Coverage: Up to 40 m<sup>3</sup>

Fan Size: 120 mm computer type

Fan Capacity: 160 m<sup>3</sup> per hour

Fan Noise Level: Up to 55 dba

Lamp Type: UVC 20W, 254 mm

Power: 240V, 50HZ

## Lamp Maintenance & Replacement Procedure

To maintain a high quality of purified air and maximum germicidal efficiency, the Radfire™ lamp **MUST** be replaced periodically. The lamp has a 9,000 hour life (12 months).

**Note:** The lamp becomes hot during operation, cool the unit completely prior to replacing the lamp.

Replacement lamp code for **RAS-160P** model : Puretec **RL436-4**

1. Prior to performing any work on the UV steriliser, always disconnect the power supply first.
2. Unscrew the top cover and put aside.

**Note:** The fan is connected to the lower cabinet, be careful not to pull on the connecting wires.

3. Unclip the lamp from the holders by gripping the ends of the lamp and gently but firmly pull the lamp free from the clips.
4. Hold the end of the lamp that is connected to the 4 pin lamp holder with one hand and the connector in the other and pull the lamp away from the connector (this will be quite firm).
5. Remove the packaging on the new lamp. and connect the new lamp into the 4 pin connector. Insuring the pins are pushed all the way into the connector.

**Note:** Never touch the glass surface of the lamp as marks or fingerprints may interfere with UV transmission. If lamp is soiled, please clean lamp with an alcohol based cleaner.

6. Holding each end of the lamp gently push each end into lamp clips. Ensure is completely secure.
7. Replace the top cover and screw back into place.

**Warranty**

Any claim under this warranty must be made within 3 years of the date of purchase of the product. This product is warranted to be free of defect of material and workmanship for 3 years from date of purchase. 3 year warranty is 1 parts and labour, plus 2 years parts only. Excludes cartridges. To make a claim under the warranty, take the product and proof of purchase to place where you purchased the product, and they will lodge a Warranty Request with Puretec.

Puretec will pay your reasonable, direct expenses of claiming under this warranty. You may submit details and proof of your expense claim to place of purchase for consideration.

The warranty only applies if the product was used and/or installed in accordance with the user guide and/or installation instructions. This warranty is given in lieu of all other express or implied warranties and manufacturer shall in no circumstance be held liable for damages consequential or otherwise or delays caused or faulty manufacturing except as excluded by law.

Applicable to all above, is that the warranties need to be approved by Puretec to ensure product was not incorrectly used, installed or claimed. False and incorrect claims will be pursued at Puretec's discretion, including chargeable inspection and labour costs incurred.

**Warranty/Australia**

This warranty is given by Puretec Pty Ltd, ABN 44 164 806 688, 37-43 Brodie Road, Lonsdale SA 5160, telephone no. 1300 140 140 and email at [sales@puretec.com.au](mailto:sales@puretec.com.au).

This warranty is provided in addition to other rights and remedies you have under law: Our goods come with guarantees which cannot be excluded under the Australian Consumer Law. You are entitled to replacement or refund for a major failure and to compensation for other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

**Warranty/New Zealand**

This warranty is given by Puretec Ltd, Reg. No 4464398, PO Box 875 Cambridge 3450 NZ, telephone no. 0800 130 140 and email at [sales@puretec.co.nz](mailto:sales@puretec.co.nz).

This warranty is provided in addition to other rights and remedies you have under law: Our goods come with guarantees which cannot be excluded under the Consumer Guarantees Act. You are entitled to replacement or refund for a major failure and to compensation for other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.



**AUSTRALIA**

P 1300 140 140

E [sales@puretec.com.au](mailto:sales@puretec.com.au)

W [puretec.com.au](http://puretec.com.au)

**NEW ZEALAND**

P 0800 130 140

E [sales@puretec.co.nz](mailto:sales@puretec.co.nz)

W [puretec.co.nz](http://puretec.co.nz)