Cleansing the air: How Rensair's hospital-grade filtration is redefining workplace air safety

Maintaining indoor air quality allows healthcare providers to reduce the risk of airborne infection and protect patients and clinicians alike. However, traditional ventilation systems, especially in older facilities, often fail to support the number of air changes per hour needed for effective infection prevention control. Replacing existing heating, ventilation, and air conditioning systems is massively costly and disruptive to your day-to-day operations.

With healthcare budgets stretched thin and patient demand continuously rising, implementing portable air purifiers for hospitals can help address the challenge of 'structural under-ventilation', while also reducing operating costs – benefiting both your patients and your bottom line.

Smart air purifiers – advanced filtration for cleaner air in any space:

- Recommended as effective and safe by the WHO, CDC, EPA, and SAGE
- Clears a 45 m^3 room in 1.3 minutes
- 360-degree air flow – place anywhere in a room
- Removes 99.97% of pollutants from indoor spaces

Globally certified for:

- Hospitals/healthcare facilities
- Real estate (commercial, home)
- Education (schools, colleges, universities)

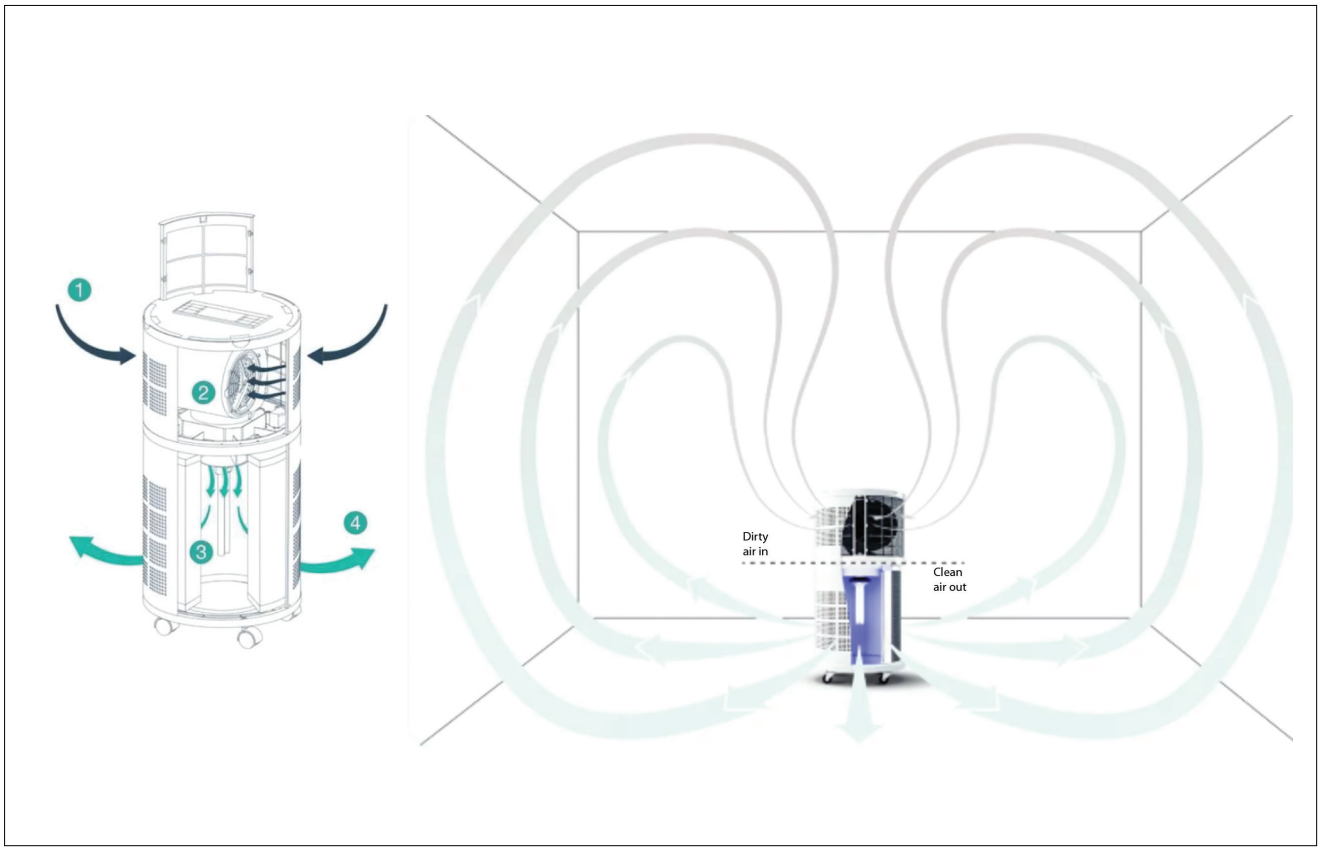

Figure 1. How the Rensair air purification system works

How it works

Figure 1 shows how the system works:

1. **ENTRY** – Polluted air enters the unit from all directions, ensuring complete room coverage and maximising airflow efficiency.
2. **PROCESSING** – Driven by a powerful centrifugal fan, the polluted air passes through pre-filters and high-efficiency particulate air (HEPA) filters, capturing dust, pollen, and airborne pathogens, while maintaining low energy use – supporting our energy-saving solutions.
3. **CLEANSING** – While the HEPA filter traps, the UVC lamp neutralises remaining viruses and bacteria. The process is designed for performance and efficiency, forming part of our overall energy-efficient solutions.
4. **EXIT** – Clean, purified air is released back into the room. Smart airflow design ensures optimal distribution and supports better energy management across your space.

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