



AIRIAL-1000

Sales  
Brochure  
2022

Providing cleaner air for patients  
and staff in care-critical environments







### BETTER AIR, FASTER

AIRQON AIRIAL-1000 is an easily installed solution for air decontamination of high risk areas in hospitals and other clinical environments. The flush ceiling mounted unit enables uninterrupted air circulation and an even 4-way distribution of clean air through rooms and treatment space with no trip hazards or air-flow barriers (when positioned centrally).

The combination of tried and trusted HEPA filtration alongside the sterilising capabilities of UV-C light technology allow for fast air disinfection in a quiet and compact unit.



### Air and Air Filtration

The air we breathe is responsible for the spread of microorganisms and as such, a common vector for the transmission of harmful pathogens that pose a risk of causing infection.

Several studies have shown that aerosols can spread the coronavirus. Smaller than 5µm, these particles can remain suspended in indoor air for up to three hours.

Maintaining good levels of indoor air quality (IAQ) is vital in minimising the spread of airborne infections that pose a serious threat to immunocompromised patients, staff and visitors within hospital and wider healthcare settings.

To avoid airborne transmission, several standards have been established to frame the hygienic air treatment, manage the risk related to patients, and reduce nosocomial infections.





# AIRQON AIRIAL-1000

## PRODUCT OVERVIEW

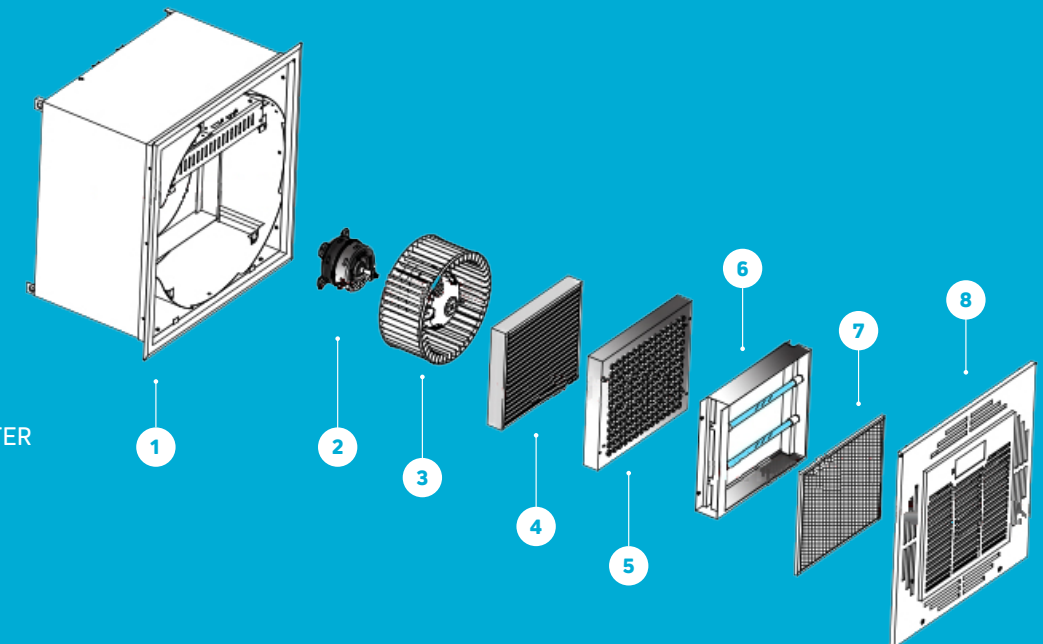
### Product Features

- Air flow up to 1000 m<sup>3</sup>/h
- LED Screen and remote control
- Real-time air quality indicator
- 5-stage filtration system
- 4 speeds, including quiet mode for night time operation
- Discreet ceiling recessed unit
- Alarms for filters and maintenance
- Suitable for rooms up to 100m<sup>3</sup>
- Multiple systems can be utilised for larger rooms



### Product Components

1. UNIT HOUSING
2. MOTOR
3. CENTRIFUGAL FAN
4. H13 GRADE HEPA FILTER
5. IONISING FILTER
6. 254NM UV-C LIGHT FILTER
7. WASHABLE PRE-FILTER
8. COVER PANEL, AIR INTAKE AND SUPPLY LOUVRES



The AIRQON AIRIAL-1000 is a fixed air sterilisation unit that combines both UV and HEPA filtration to purify hospitals and care-critical environments.

Its discreet and uniform design can be easily incorporated into any room or space to provide a non-obtrusive solution to improving air quality without loss of circulation or trip hazards as typically associated with mobile systems and trailing cables.

### Purification and Sterilisation

Four UV-C lamps eliminate up to 99.9% of pathogens such as germs, viruses and bacteria from the air molecules that pass through it. UV-C application involves no chemicals and does not alter the composition of the air or water that it comes into contact with.

The additional ionising filter increases the static charge of particles (present within the air) which results in them combining into larger compound particles. This in-turn increases the effectiveness of the HEPA filter and ensures more particles are trapped within the system.

### Ease of Operation

The AIRIAL-1000 is operated via remote control with on-board LCD display. Switch the unit on or off, set the speed, set timers and activate the various levels of filtration as necessary.

The remote will also display updates on air quality and filter maintenance. For ease-of-use, filters can be changed without accessing the ceiling void.

The fitted location of the AIRIAL-1000 ensures even spread of clean air throughout the treatment space, ensuring all air within the space is treated to the same standard.

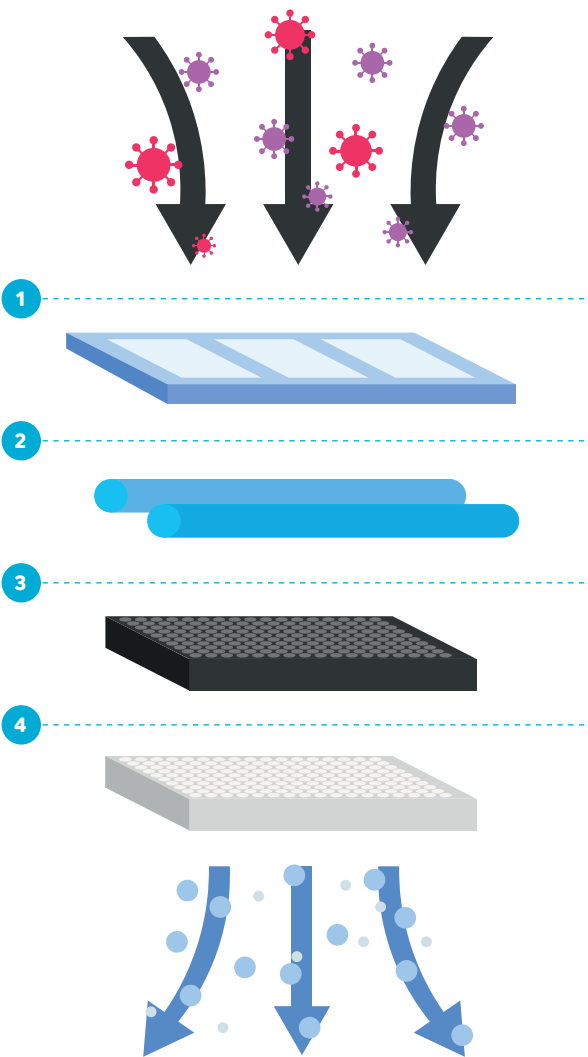


# AIRQON AIRIAL-1000

## HOW IT WORKS

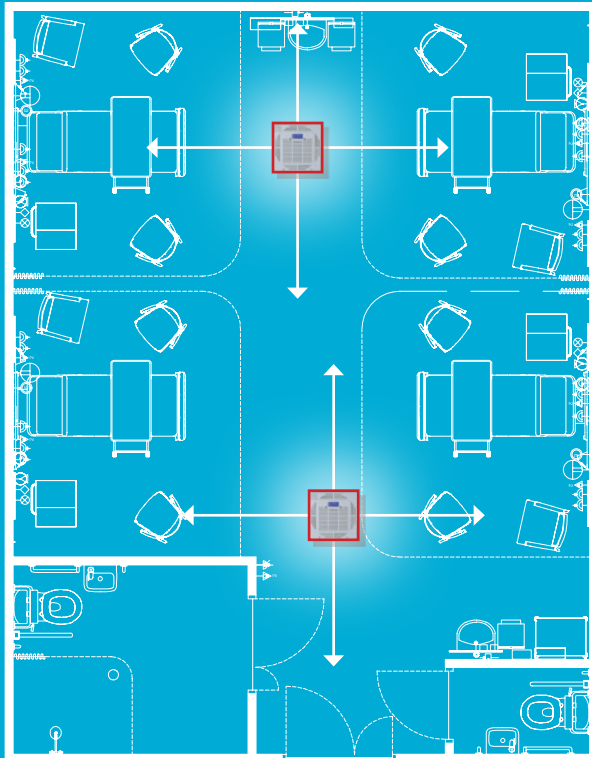
### Air Filtration

1. PRE-FILTER removes coarse particles and protects the advanced filters.
2. UV-C LIGHT FILTER destroys organisms passing through this chamber.
3. IONISING FILTRATION increases static charge of particles which causes them to combine, which increases the effectiveness of the HEPA filter which follows.
3. HEPA FILTRATION High Efficiency Particulate Air H13 filter removes up to 99.97% of all particles as small as 0.3 microns in diameter.



### Application Example

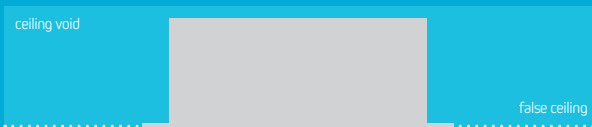
1. A centrally located system draws room air in and discharges it evenly in 4 directions, maximising coverage and delivery of clean air to all parts of the room.



2. Directional louvres ensure air is delivered at ceiling level and reduces uncomfortable draughts from the moving air.



3. The body of the system is concealed within the false ceiling as shown, providing an unobtrusive installation.



4. All filters can be changed from below without the need to access or disturb the ceiling void.

### General Maintenance

CLEANING: Clean using hospital detergent wipes.

PRE-FILTERS: There are two air intake pre-filters inside the machine, they must be replaced every 24 months.

The pre-filters should be cleaned with a HEPA vacuum cleaner at every service interval.

HEPA FILTERS: The HEPA H13 filter must be replaced every 6 months, or every 3,000 hours.

UV LAMPS: This device includes a powerful set of UV-C lamps. These lamps should be replaced every 12 months or 8000 hours (filter replacement notification).

NOTE: All maintenance must be carried out in line with agreed protocols and using the required PPE, as per the local standards



### Specification

|                            |   |
|----------------------------|---|
| AIR FLOW (m³/h)            | Level 1: 700m³/h, Level 2: 900m³/h, Level 3: 1000m³/h   |
| CONTROL & DISPLAY PANEL    | LED DISPLAY WITH REMOTE CONTROL                         |
| DIMENSIONS                 | 645 x 645 x 380mm (L x W x H)                           |
| INSTALLATION DIMENSIONS    | 600 x 600 x 380mm (L x W x H)                           |
| WEIGHT                     | 34kg  |
| FILTRATION SYSTEM          | PRE-FILTER + IONISER + HEPA H13                         |
| STERILISATION              | UV RADIATION  |
| STERILISATION RATE         | UP TO 99.9%   |
| OPERATING MODES            | INTELLIGENT MANUAL, NIGHT                               |
| NOISE LEVEL                | Level 1: <55dB(a), Level 2: <60dB(a), Level 3: <65dB(a) |
| OZONE CONCENTRATION        | <0.1mg/m³   |
| POWER CONSUMPTION          | 190W  |
| INSTALLATION LOCATION      | RECESSED WITHIN CEILING                                 |
| FILTER CHANGE              | EVERY 3000 HOURS (RECOMMENDED)                          |
| UV LAMP LIFE / REPLACEMENT | EVERY 12 MONTHS OR 8000 HOURS                           |
| WASHABLE PRE-FILTER LIFE   | REPLACE EVERY 24 MONTHS                                 |



FOR MORE INFORMATION OR TO ORDER, PLEASE CALL +44 (0)845 270 6690 OR VISIT [WWW.AIRQON.COM](http://WWW.AIRQON.COM)