

medicair



# **MedicAir® Air Purifier**

## Product Brochure



MedicAir® Air Purifier 2021

# MedicAir®'s commitment to safety Product Brochure

**MedicAir®** uses medical grade purification technology to purify your air from viruses, bacteria, allergens and other undesirable contaminants.

**MedicAir®** has been independently tested by world accredited labs and is used in thousands of leading healthcare facilities globally.

The Medical Grade **MedicAir®** Air Purifier is proud to partner with the **National Care Forum** and **Care England**.



## Technological excellence

Combining innovative technology with outstanding design, we bring you a sophisticated air purification system to ensure the highest levels of protection and reassurance in your everyday environments. Our products are designed to fit seamlessly into any environment, enabling you to safely continue with your everyday activities and achieve your maximum potential.

Our state of the art **MedicAir®** system eliminates the invisible contaminants in a room and disperses clean air filtered for viruses, bacteria and particulates with its ultra-high power 24W UVC technology, 360-degree air intake and five-stage filtration process, it's quick, efficient and quiet. Designed and developed for quality and longevity with widely trusted technology, **MedicAir®** gives you peace of mind, with the exceptional levels of service you can be sure of from the **MedicAir®** team.

## Filter Specification

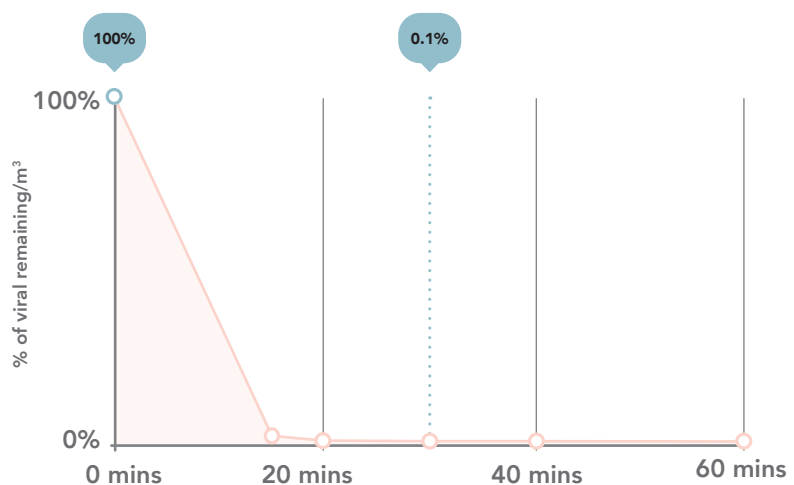
- Pre-Filter: Non-woven fabric mesh
- HEPA H-13 filter efficiency is 99.95% at > 0.3 microns
- Activated Carbon Filter
- UV-C 24W Bulb



Independently tested at the Airmid Healthgroup laboratory Ireland.

## Airborne virus removal from a test chamber within 30 minutes with MedicAir®

Independently tested by accredited labs internationally to remove viral airborne containments.



In a room size of 27.5m³



## Air Flow

The **MedicAir®** air purifier features 5049 air flow inlets across the base of the unit. This allows for an enormous maximum air flow of up to 600m<sup>3</sup>/hour enabling a large number of air changes even within the most challenging of environments.

## The Problem at hand

Indoor air Pollution (IAP) is considered a serious threat to human health. On average, we spend 90% of our time indoors, experiencing air quality that is up to 5 times worse than that found outdoors. Sick building syndrome (SBS) and Building-related illness (BRI) are widespread across a vast array of indoor settings. Stagnant, contaminated air is commonplace within these settings, and this has been shown to have detrimental effects on health including those such as respiratory infection, lung cancer, stroke and cardiovascular illnesses.

It has been demonstrated beyond reasonable doubt that viruses are released as part of the exhalation process, as well as whilst talking and coughing. During such processes, the micro droplets are extremely small and can remain airborne for long periods. A typical 5-µm droplet will likely travel tens of meters before settling to the ground.

Used widely throughout healthcare facilities right across the UK national health service, as well as within healthcare facilities across Europe and beyond, **MedicAir®** medical grade air purification is now available to you.



## Noise Levels

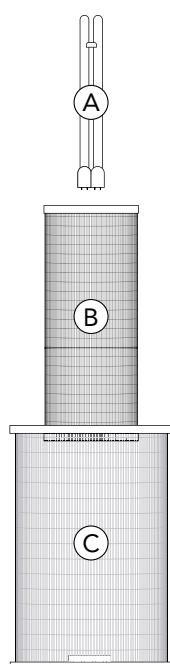
**MedicAir®**'s design, alongside the efficiency of a NiDec Japanese optimised motor, allows operating noise levels of a band of between 30-60 Db. As a logarithmic scale, 30 Db is the sound of rain, 60 Db is the sound of a conversation at 2m.

## The Technology Behind the Solution

**MedicAir®** offers a unique solution for the purification of your indoor air, improving air quality and reducing the incidence of suspended viruses, bacteria and numerous other harmful contaminants commonly found throughout indoor air. We provide you with an advanced breathing experience.

The **MedicAir®** unit utilises a custom engineered multi-stage air purification process with a maximum airflow throughput of 600m<sup>3</sup>/hour, alongside a muted noise level, operating at a maximum of only 60db.

Our combination of filters enable purification of your air like never before. The antibacterial coated HEPA-13 filter has a 6.7m<sup>2</sup> surface area and filters out 99.95% of all particles down to 0.3 microns, whilst our activated carbon layer removes harmful VOCs and odours, before our 24W UVC bulb targets viruses and other microscopic contaminants.



## Filters

### ATP-HEPA antimicrobial peptide filter

High-density ATP-HEPA antimicrobial peptide filter to remove airborne particulate matter with a mean aerodynamic diameter of 2.5µm.

### High-efficiency activated carbon layer

This is a large honeycomb-structured filter which works to remove harmful substances such as mercury and benzene. It can subsequently reduce odours in the room.

### UVC Bulb

This 24W UVC bulb is important as a mechanism for activity damaging bacteria and viruses, as opposed to simply trapping them. At 254 nm in wavelength, this is a very effective last line of defense provided by **MedicAir®**.

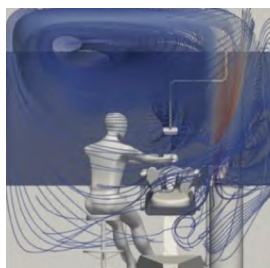
Please visit [medicair.co.uk](http://medicair.co.uk) to buy high-performance combined filters.

- A UVC Bulb
- B High-efficiency activated Carbon filter
- C Pre-filter and ATP-HEPA filter cartridge



## ReAKT Technology

The design of **MedicAir®** enables on board laser sensors to detect airborne contamination and react to this across 4 settings. This technology allows for optimised filter cartridge utilisation, causing your filtration to be preserved for longer than otherwise possible.



Laminar air flow refers to air flow within the room being both uniform in velocity and direction.

**MedicAir®** research team provide further reading available at: [researchsquare.com/article/rs-59571/v1](https://www.researchsquare.com/article/rs-59571/v1)

## Simple to Use

The **MedicAir®** unit does it all, meaning you can sit back and relax. The digital display allows you to easily monitor and adjust your **MedicAir®** system at the touch of a button.

Showing you everything from air quality levels, to relative humidity and room temperature, the on screen light up display provides an expert user experience. The on-board laser sensors constantly monitor the quality of the air, detecting increases in air contamination and activating the unit's motors accordingly.

## Variable Power Settings

Air Flow Setting	Air Flow (m³/hour)	Noise Level (dB)	Power Consumption (watts)
Low	up to 150	35	35
Medium	up to 300	47	45
High	up to 450	57	57
Max	up to 600	60	80

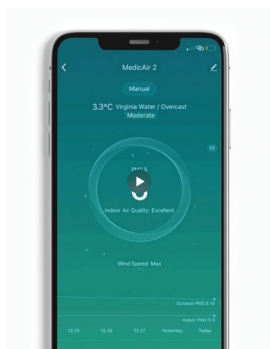
## MedicAir® for your Environment

**MedicAir®** provides a surgical-grade level of protection for your indoor environment. Due to the power capability of **MedicAir®**, the unit is capable of delivering 600m³/hour of air throughput.

Within Medical environments, where guidance indicates a 10 'Air Changes per Hour' policy, the **MedicAir®** is capable of providing this to even the larger of surgeries.

**MedicAir®** is also used in many open plan surgeries in which one **MedicAir®** is allocated per bay/chair to enable a laminar air flow throughout the environment.





### MedicAir® Mobile App

Available on both the Apple App store and Google Play store, MedicAir®'s mobile app allows you to control and monitor your units, wherever you might be.

## 3 methods of control

At MedicAir®, we believe in making life easy for you. That's why MedicAir® is able to be controlled in three different ways.

MedicAir® can firstly be controlled simply by touch screen (located on the top of the MedicAir® unit.)

MedicAir® also arrives with a battery operated remote control, which gives you the ability to adjust airflow, activate new modes and turn your device on and off. The remote is long-range .

Finally, you can download the 'MedicAir®' mobile application from the Apple App Store or Google Play Store and sync your device to your Air Purifier. MedicAir®'s mobile application gives you all the functionality of the screen, as well as the ability to track filter longevity and monitor your air quality even when you are off-site.

## On Screen Control

MedicAir® on-screen controls are intuitive, simple and effortless. The display provides an 8 inch (diagonal) wide-screen LCD display enabling easy reading and interpretation.



## Colour display

Whilst the LCD display provides information on your indoor air quality, the Red, Amber, Green indicator on the front of MedicAir® (see right) provides an immediate feedback on the air quality to anyone in the room.

If Air Quality deteriorates beyond 50 ug, the indicator will glow amber, and beyond 75 ug, glow red.

Once ReAKT has been activated, the machine will automatically respond to any disturbances in the air quality, re-establishing excellent (green indicator) air quality within a short period.



## Choose your Colour

**MedicAir®** is available in both Black and White. This provides you with the ability to have **MedicAir®**(s) as either a 'stand out' feature of your room or allow you to keep **MedicAir®** in-keeping with your indoor environment. (Black not available till 2022)



### MedicAir® Air Purifier 2021

#### Contents:

- 1 x MedicAir® Air Purifier (with pre-installed filter cartridge)
- 1 x Remote control (with pre-installed battery)
- 1 x Instructions Manual
- 7 x MedicAir® Holographic display stickers (various size)
- 1 x Power Cord (country specific)



### Intelligent filter system

MedicAir® filter system is intelligent and therefore able to inform the user when the filter for your machine requires changing. When your filter has 10% filter life remaining, the above panels on your screen will flash red repeatedly. Simply visit [medicair.co.uk](http://medicair.co.uk) to order a new one.

## Maintenance and Cleaning

The **MedicAir®** unit is designed with two priorities in mind. Effectiveness and simplicity. As a result, the **MedicAir®** requires minimal upkeep to ensure longevity of use. This involves the:

- Responsible day to day use
- Changing the filter cartridge (as appropriate)

## Filter Replacement

**MedicAir®** is simple. Therefore, so is the filter replacement process. **MedicAir®**'s filters are combined into one 'filter cartridge' (containing all elements of the filtration process and technology inside).

- Takes 2 minutes to change
- Available directly from MedicAir®
- Can be installed by anyone in your team

### MedicAir® Filter Cartridge 2021

#### Contents:

- Pre-Filter: Non-woven fabric mesh
- HEPA H-13 filter efficiency is 99.95% at > 0.3 microns
- Activated Carbon Filter
- UV-C 24W Bulb

