

# AirBubbl

Delivering safe, clean air to  
vehicle occupants

The AirBubbl filters more than 95% of airborne viruses, harmful particulates pollutants and gases, creating a cleaner, safer environment.

airlabs  
breathe easy

## Clean Air Matters

Airborne viruses are known to remain suspended and alive in the air for hours, allowing transmission even after the departure of the source. Air filtration provides an extra layer of protection in critical environments by removing airborne viruses and contaminated particulate matter that are known pathways of virus transmission.

The AirBubbl by AirLabs is a retrofit, in-vehicle air filtration unit designed to provide clean air to vehicle occupants, free of particles and toxic gases. The key pollutants removed include gaseous pollutants such as Nitrogen Dioxide (NO<sub>2</sub>), Ozone and Volatile Organic Compounds (VOCs). It also removes particulates such as dust, pollen, soot, fibres, PM<sub>2.5</sub> and PM<sub>10</sub>, along with bacteria and viruses.

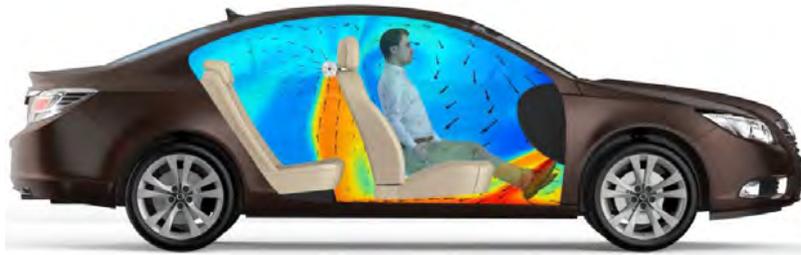
The AirBubbl delivers over 30,000 litres of clean air every hour to keep drivers and passengers safe



## High Clean Air Delivery Rate (CADR)

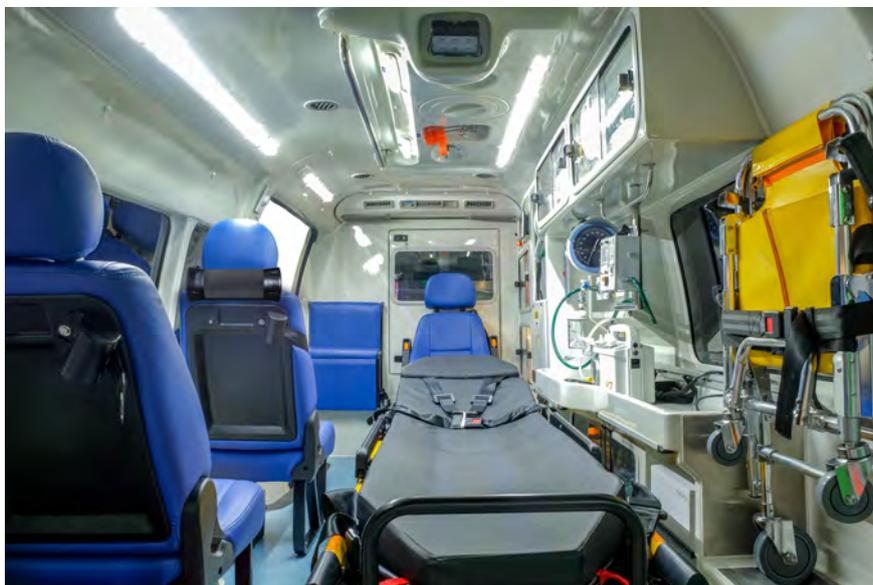
The key to maintaining safe and healthy air in a vehicle is the number of air exchanges per hour. With a CADR of 30 m<sup>3</sup>/h, the AirBubbl can clean the air in a standard vehicle interior (3 m<sup>3</sup>) very quickly and several times an hour.

The AirBubbl removes more than 95% of all particles less than 5 µm on a single pass through its filter. With a single person exhaling 500 litres of potentially contaminated air every hour and the AirBubbl filtering and cleaning over 30,000 litres of air every hour, the airborne virus load in the vehicle is significantly reduced and as a result so is the risk of exposure.



## How the AirBubbl adds protection

1. To clean the air within an enclosed space during the time between occupation by different groups of people.
2. To reduce the levels of airborne SARS-CoV-2 within a vehicle cabin while it is occupied to help protect drivers and passengers



## Key Features

### Nano Carbon Filter

The unique activated nano carbon filter removes up to 95% of nitrogen dioxide and other gaseous pollutants effectively — the only type of filter that can absorb the harmful gases and keep them locked away.

Effectively removes up to 95% of gaseous pollutants, such as nitrogen dioxide (NO<sub>2</sub>), within 10 minutes.

### High Grade Particle Filter

The high-grade particle filter removes particulate matter efficiently. This includes dust, pollen, soot, fibres, PM2.5 and PM10.

Viruses and bacteria are very efficiently removed by the AirBubbl, as the capabilities of the particle filter extends to the very finest particles.

### Powerful Dual Fan

Vehicle occupants breathe cleaned air faster with the AirBubbl due to its patented airflow design.

The AirBubbl is the only product on the market that not only cleans polluted air but also delivers the cleaned air directly back to the driver and passengers through patented airflow design.

### Mobile Application

iOS and Android app featuring remote control and air flow management statistics. Users can collect achievement badges reflecting the quantity of air cleaned in the vehicle.

### Patented Airflow Design

The powerful dual fan design delivers clean air directly back to the driver and passengers.



## How it works

The AirBubbl is the only in-car air cleaner that filters up to 97% of Particulate Matter (PM<sub>2.5</sub>) and up to 95% of Nitrogen Dioxide (NO<sub>2</sub>).

This is achieved through a high grade F8 particulate filter and includes particulates such as pollen, soot, mould spores, dust and dander, non-exhaust traffic emissions, tobacco smoke, as well as viruses and bacteria. This includes the often referred to classifications PM<sub>2.5</sub> and PM<sub>10</sub>. In addition, the AirBubbl also uses an advanced nanocarbon filter, effectively removing all of the following harmful gases: Nitrogen Dioxide, Sulphur Dioxide, Ozone, Benzene, Toluene, Ethylbenzene, Xylene.



The AirBubbl filters the air you breathe, removing harmful particulates and pollutants and creating a cleaner, safer environment.

## Operation

The AirBubbl is a plug and play product that requires no changes to the vehicle's ventilation system or interior configuration. In a standard configuration (attachment to a seat headrest) it is installed easily within minutes and for non-standard installations there are multiple mounting options that can be easily deployed.

The AirBubbl is powered via a 2.1 A USB port by using a 12V socket (cigarette lighter), 3 Pin adaptor or power bank, and is highly intuitive to operate. Air is drawn into the AirBubbl, cleaned, and then specifically directed to where the vehicle occupants will be breathing. The design of the AirBubbl ensures that the clean air efficiently reaches all passengers inside the vehicle

The filter element is completely user serviceable and takes a matter of minutes to replace. They typically last for 1000 hours of use.

Features	AirBubbl
Airborne virus particulate removal	✓
NO <sub>2</sub> removal	✓
Optimised air delivery	✓
PM removal (includes pet hair, dust, pollen and bacteria)	✓
Intuitive app featuring dual speed control	✓
VOC, odour removal	✓
Portability	✓
Filter change indicator	✓
Warranty on electronic components (for manufacturing defects)	2 years



## Technical specifications

Advanced car air purifier with unique nano carbon filter and patented airflow design.

### Filter specifications

Gases:	Particulates:
Nitrogen Dioxide (NO <sub>2</sub> )	PM <sub>2.5</sub>
Sulphur Dioxide	PM <sub>10</sub>
Ozone	Dust and dander
Benzene	Pollen
Toluene	Mould spores
Ethylbenzene	Tobacco smoke
Xylene	Soot
	Fibres
	Bacteria
	Viruses

### Filter lifetime

1000 hours

### Filter replacement indicator

Yes

### Airflow

30 m<sup>3</sup>/h

### Speed settings

2 settings, normal or boost mode

### Control

Manually or via AirBubbl app

### App

Compatible with Android and iOS devices. System requirements: iOS 8.0+, iPhone 4s or later, iPod touch (5th Gen or later), Android Snapdragon or later.

### Colour

Space grey, brushed aluminium, grey fabric cover, grey strap

### Size

31x12cm

### Weight

0.8kg

### Noise level

44 dBA in Normal mode, 48 dBA in Boost mode

### Power supply

USB-C inlet. 5V, 2.1 A (10W). Powered via USB to car power adapter or other suitable USB power supply (5V, 2.1A).

## The AirBubbl has been tested to the following standards

### CE

Tested and conformed to following standards:

#### Electromagnetic Compatibility

- EN 301 489-1 V2.2.0
- EN 50498: 2010
- EN 55014:2017

#### Radio emissions

- EN 300 328 V2 1.1

#### Health

- EN 62479:2010

#### Safety

- EN 60950
- EN 60335

### FCC

FCC identification number: 2AQ2U-AB1-1

Tested and conformed to following standards:

#### Radio emissions

- FCC Rules and Regulations Part 15 Subpart C Section 15.249

### Crash testing

Tested and conformed to following standards:

- Euro NCAP Whiplash Medium, rear impact
- Euro NCAP Whiplash High, rear impact
- Euro NCAP Whiplash High, side impact
- ST-0791 Seat Integrity Test, front impact

### Accessories included

Quick Start Guide

High quality 2m USB-C cable

Dual USB car power adapter

Adhesive cable clips

