



AirBubbl 22i

Air purifier for vehicles



RENSAIR

rensair.com

OVERVIEW

Protect your drivers behind the wheel

Air pollution can be up to 10 times higher inside vehicles than it is outside.

Exhaust fumes and air pollution take a massive toll on the health of professional drivers¹. In a typical working year, it's the equivalent of passively smoking 980 cigarettes².

We all know the dangers of passive smoking, so why wouldn't you protect your drivers against deadly road pollution?

Open a window and wear a mask, they say. Or 'zap' the air with ionisers and other unproven and potentially harmful technologies. In fact, opening a window can add to the problem. By increasing air turbulence, pathogens are carried into the driver's breathing zone.

Air pollution is an invisible killer that takes its toll on professional drivers. It also has a detrimental impact on business, by causing illness and absenteeism. With driver shortages a real issue for transportation providers, it's never been a more important time to protect the respiratory health of your team.

¹ Taxi drivers face highest level of black carbon exposure. 29 Sep. 2019

² In-car pollution equal to passively smoking 980 cigarettes.



HOW AIR POLLUTION AFFECTS YOUR DRIVERS

In recent years, the world has grown increasingly aware of the impact of poor air quality on our health and wellbeing.

Just a few hours a day could expose your drivers to constant air pollution, as well as short-term spikes. Toxic gases and microscopic particles enter vehicles through their ventilation systems, or straight in from open windows. These deadly particles get into every organ in the body.

LONG TERM EFFECTS FOR DRIVERS

- Sudden heart attack, ischaemic heart disease and stroke³
- Asthma attacks and chronic lung disease⁴
- Depression and anxiety⁵
- Cancer
- Alzheimer's disease and dementia⁶
- Fatigue
- Headaches and migraines
- Reduced cognitive performance and focus at the wheel⁷

³ Spikes in air pollution cause 124 extra heart attacks per day – Science Focus 21 Oct 2019.

⁴ Air Pollution and Noncommunicable Diseases ... - CHEST Journal. 9 Nov. 2018

⁵ Association between neighbourhood air pollution ... - BMJ Open.

⁶ Air pollution linked to much greater risk of dementia - The Guardian.

⁷ Estimating the effect of air pollution on road safety using ... 3 Oct. 2016

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**LUNG
DISEASE**



**HEART
DISEASE**



**TRANSMISSION
RISK**



**REDUCED
PERFORMANCE**



**ACCIDENT RISK
INCREASE**



**LOWERED
IMMUNITY**

Air pollution has become
the world's single biggest
environmental health risk.

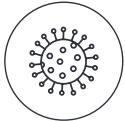
WORLD HEALTH ORGANISATION

AIRBUBBL – THE PROVEN SOLUTION



99%+ AIR POLLUTION REMOVAL

Tested and verified to filter more than 99% of toxic gases, particles and particulate allergens.



99%+ PATHOGEN AND ALLERGY REMOVAL

Independently tested and verified by the Institut Pasteur on live airborne human coronavirus.



EXCEPTIONAL CLEAN AIR DELIVERY RATE

Generates 22 cubic feet of clean air per minute, refreshing the air in an average school bus every six minutes.



LOW RUNNING COST

Requires no maintenance other than scheduled filter replacements.

HOW IT WORKS

Medical grade air filtration and air flow engineering

HEPA FILTER

Removes more than 99% of airborne pathogens, viruses, pollen, PM2.5 and PM10.

ADVANCED NANO-CARBON LAYER

Removes and traps over 99% of gas pollution such as nitrogen dioxide, VOCs and ozone.

DUAL FANS

Deliver 22 cubic feet of clean air every minute.



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INDEPENDENTLY TESTED

Independently tested
and verified to filter
out more than 99%
of airborne particle
and gas pollutants,
pathogens and
allergens

RENSAIR

AirBubbl uses an advanced HEPA filter combined with nano-carbon technology to deliver an effective and high clean air delivery rate.

Whether you choose single air filtration units to protect each of your drivers, or a complete clean air space for your passengers, it's safe and easy to install.

Our step-by-step installation guide is available to help your mechanics/service technicians, or we can arrange an approved independent contractor.



Thatcham
Research

THE NUMBERS SPEAK FOR THEMSELVES

The impact of sick days disrupts timetables, damages your business reputation, and affects your bottom line. Your drivers are highly trained, monitored and take regular breaks. Take that extra step for their safety. Clean air improves concentration at the wheel and reduces the risk of accidents.

3.2%

reduction in
sick days⁸

5%

fewer road traffic
accidents⁹

8%

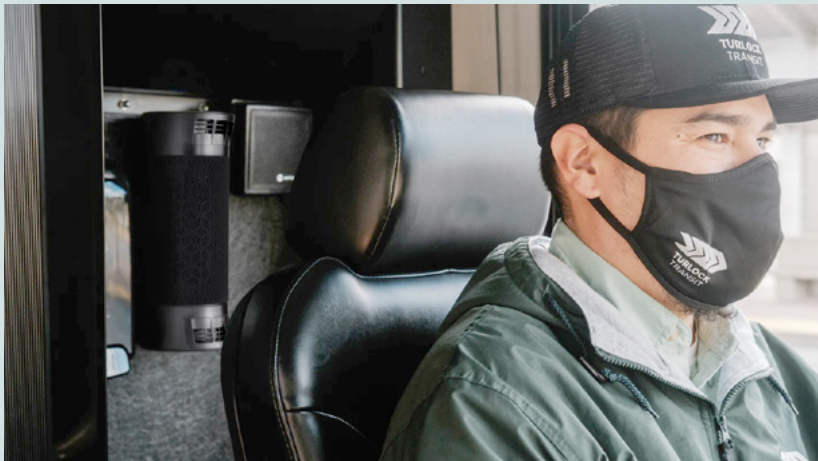
increase in employee
performance¹⁰

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FIRST CLASS PRODUCT, 5-STAR RATING

Why wouldn't you deploy it for your employees?



We pride ourselves on applying innovative thinking and maintaining a culture of excellence for the benefit of all our employees and passengers. AirBubbl technology checks all these boxes to the point where you ask yourself, 'Why wouldn't you deploy it for your employees?'

WAYNE YORK

Transit Manager, Turlock Transit

Healthy drivers mean healthy passengers



Throughout the pandemic, Plymouth Metrolink has implemented a range of safety measures across the system to keep rider safety at the forefront. Metrolink safety measures include installing additional cabin air filtration (AirBubbl devices) in the driver section of all of our buses – healthy drivers mean healthy passengers.

NUR KASIN

Transit Administrator, City of Plymouth, Minnesota

SPECIFICATIONS

Advanced in-vehicle air purifier combining particle and gas filtration, along with patented airflow technology.

Dimensions: H:12.2in Ø4.7in

Net weight: 1.8lbs

Colour: Space grey, brushed aluminium, grey fabric cover

HEPA filter: EU13 (EN 1822 class H13)

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

Power usage: 10.5W (maximum)

TECHNICAL SPECIFICATIONS

RENSAIR AIRBUBBL AIRFLOW VOLUME	CUBIC FEET FT ³ /MINUTE	NOISE LEVEL (dBA)
Boost setting	22CFM	48
Normal setting	13.5CFM	44

Tolerance +/- 10%

FILTER SPECIFICATIONS

Gases:

Nitrogen Dioxide (NO₂)
Sulphur Dioxide
Ozone
Benzene
Toluene
Ethylbenzene
Xylene

Particulates:

PM2.5, PM10
Vehicle emissions
Dust and dander
Pollen
Tobacco smoke
Soot
Bacteria

Filter lifetime: 1,000 hours

Filter replacement indicator: Yes

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
EN 55014

HEALTH & SAFETY

EN 62479
EN 60950
EN 60335
EN 60335-2-65

ENVIRONMENTAL

Registered with the US Environmental Protection Agency.
Certified compliant with California zero ozone emissions limits
and is CARB certified for sale in the state of California.

CARB

Air cleaner regulation AB 2276

EFFICACY

Certified by the Institute for Energy and Environmental
Technology (IUTA) to remove more than 99% of gases and
particles.

FCC

FCC identification number: 2AQ2U-AB1-1
Tested and conformed to following standards:
Radio emissions: V2 1.1
FCC Rules and Regulations Part 15 Subpart C Section 15.249

CRASH TESTING

Tested with Thatcham Research and conforms to the 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

Air purification for every indoor space

Rensair's certified range of air purifiers offers an indoor air quality solution for all sizes of space and levels of occupancy:

Core

Our original hospital-grade air purifier for larger indoor spaces.

Compact

Our new, quiet hospital-grade air purifier for smaller indoor spaces.

AirBubbl

Our mini air purifier for vehicles, truck & bus cabs, and personal spaces.



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WHAT CAN RENSAIR DO FOR YOU?

Rensair **PROTECTS** lives and promotes health by trapping and inactivating air pollutants, viruses, and bacteria.

Rensair **PROTECTS** businesses by reducing absenteeism, providing affordable infection resilience, and delivering energy savings.

Rensair **ENHANCES** lives by improving cognitive functions, decision making, work rate productivity, and information retention, all of which further **PROTECT** the bottom line.

Contact Rensair to discuss the optimal Indoor Air Quality solution for your space.

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