

Air clear of **SARS-CoV-2**

BREATHE EASY



eco₃
Air Purifier



TESTED BY
SGS

Prevention and
Environment division

eco3

Air Purifier



Breathe Easy

To improve air quality in buses and coaches, Hispacold has developed **eco3** - an air purifier that eliminates viruses including SARS-CoV-2, microorganisms, germs and allergens, while also neutralising bad odours.

The **eco3** is located in the part of the air conditioning system which controls air flow and supply, where blowers distribute ozone (<0.05ppm) inside the vehicle sterilising the air. All these advantages come with a negligible increase in electricity consumption.



Effective inactivation of the virus

eco3 which operates by generating negative ions and ozone (<0.05ppm) in recommended proportions, increases the oxygen concentration in the air, eliminates bad odours and maintains the air supply at healthy levels so that it doesn't become stale and polluted.

**The Biological Defence area of the Defence Systems Department (NBQ/CBN (Eng)) at the National Institute of Aerospace Technology, INTA, depended of the Defense Ministry of the Government of Spain, field tested a 15-metre coach fitted with the eco3 air purifier where the virus MS2 was present.*

According to the UNE 100012: 2005 standard, a count of less than 800 CFU/m³ of total mesophilic aerobic flora* is considered to be the maximum recommended count for indoor air, above which corrective measures are recommended.

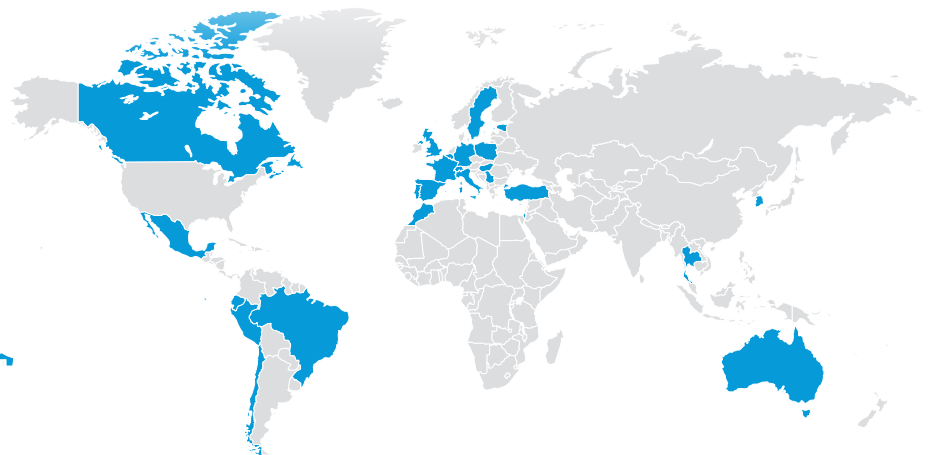
** It is considered to be aerobic mesophilic flora when it has an optimal growth temperature between 20 °C and 45 °C.*

	Without eco3	With eco3
Bacteria	6295 CFU/m ³	155 CFU/m ³
Fungi	1135 CFU/m ³	360 CFU/m ³
Total	7430 CFU/m³	515 CFU/m³

Results of genuine tests carried out on buses and coaches Cultures were taken from vehicles fitted with, and without the eco3 air purifier. Laboratory tests showed (where the **eco3** was fitted) colony-forming units (CFU/m³) were reduced by 93% and plate-forming units (PFU/m³) were reduced by 99.7%.

Tested and approved by INTA and SGS

The **eco3** air purifier has proven effective in all vehicles in which it has been installed. Its efficiency has been tested by SGS, a world leader in inspection, verification, testing and certification and it has been tested and endorsed by the CBN Defence Systems Department of The National Institute for Aerospace Technology, INTA, depended of the Defense Ministry of the Government of Spain.



Widely market tested

More than 10.000 **eco3** units currently sterilise, purify and clean the air inside buses and coaches in more than 20 countries.

+10.000 
eco3 units installed

Characteristics

- > Eliminates harmful elements present in bioaerosols such as bacteria, viruses (including SARS-CoV-2), mould, allergens and germs.
- > Increases the concentration of oxygen to maintain healthy air levels and prevents the sensation of being unable to breathe indoors.
- > Reduces driver drowsiness.
- > Reduces the risk of infections.
- > Avoids dizziness and nausea in passengers.
- > It can be fitted in new equipment or in systems already in operation.
- > It removes dust in the air.
- > Eliminates certain pollutant gases.
- > Neutralises bad odours.

Sterilises the air while passengers are on board

Unlike other cleaning and disinfecting devices **eco3** is designed to work best when passengers are on board and when the vehicle is in operation. The **eco3** air purifier dramatically reduces fungi, bacteria, viruses, volatile organic compounds, allergens, etc.

