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## AirCub™

### Air purification and perfuming system



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## Problem

In small domestic environments or closed rooms such as wardrobes, pantry, shoe racks, trashcans or laundry basket are places where there is a high rate of bacterial proliferation and hygiene levels are lowered by developing bad smells.

## Solution

Aircub it's the solution to the problem!

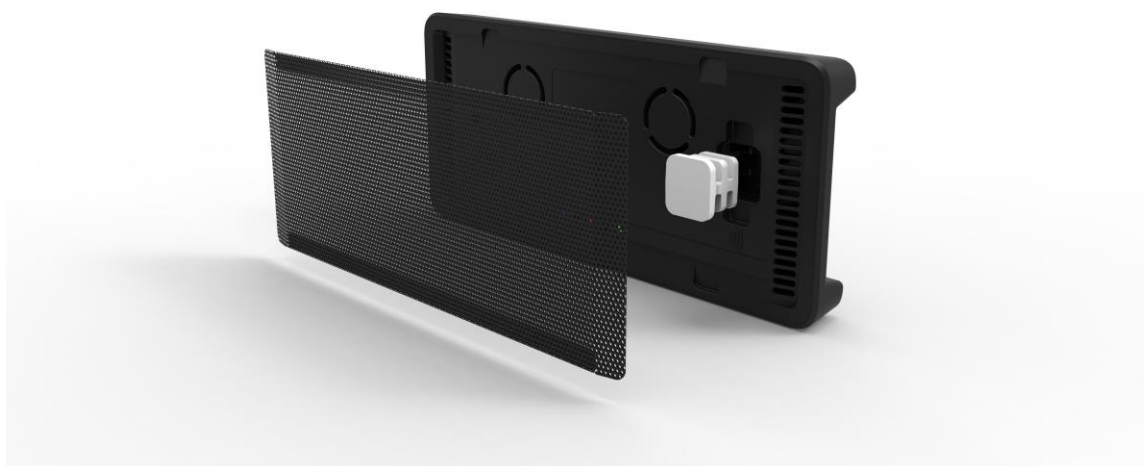
Thanks to a process of ionisation and ozonation of the air, AirCub eliminates up to 99% of agents harmful to our health (VOC, bacteria, viruses, moulds and allergenic substances), leaving a pleasant scent in the air.

## How it works

The air to be purified is drawn into the device, treated with negative ions and ozone that eliminate germs and bacteria and then returned to the environment.

A second air duct passes through a ceramic filter imbued with natural essences totally made in Italy, so as to release a pleasant fragrance.

AirCub, besides having an automatic air purification and perfuming cycle, is an IoT device (Internet of Things), it connects through Bluetooth 4.2 Low Energy with the "**Smart Air**" app (IOS and Android) and all the functions can be customized intuitively from a tablet and smartphone.



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## The fragrances

Essences designed, produced in Italy and exclusively for aircubs.

Six natural fragrances designed for different domestic, work and community environments:

- 2 gourmand notes, designed primarily for the kitchen environment: Lemonbalm (notes of lemon, lemon balm, verben, luisa grass) and Cream (notes of vanilla, cream, butter, icing)
- 2 evocative notes, created with the sleeping area in mind: Linen (notes of linen, cotton, marseille, clean linen) and Babypowder (talcum powder, talcata pink)
- 2 thematic notes, made for the living room and office: softwood (notes of sandalwood, rosewood, cinnamon, nutmeg, cloves) and Greenberry (notes of berries, blueberry, fern, undergrowth)

It is possible to supply the essence personalization service according to the customer's specifications. The capsules can be purchased in the Amazon store or in the shop section of the **"Smart Air"** app.



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## Benefits

- Improves air quality
- Reduces harmful agents in the air (VOC, bacteria, viruses, moulds and allergenic substances)
- Reduces bacteria caused by bad smells
- Reduces electrostatic charge
- Prevents the formation of mould and mites
- Perfumes the environment
- Smart system – IoT – customizable features
- Small dimensions (270 x 120 x 28 mm)
- Easy installation/replacement

## Purpose of use

- Wardrobes
- Shoe cabinets
- Trash bin
- Scope compartment and cleaning material
- Compartment or laundry basket.
- Small rooms (closets, blind baths, laundry room, etc.)

## Technical data

- ABS body L 270 mm H 120 mm P 28 mm
- Micro-perforated metal cover (customizable)
- Interchangeable scented ceramic filter with RFID authenticator
- Ionization and ozonation module
- No. 2 fans with a capacity of 3.2 m<sup>3</sup> / h
- Sensor for detecting leaf opening
- Air quality monitoring sensor
- Bluetooth 4.2 Low Energy
- 100-240Vac 50 / 60Hz power supply
- iOS and Android app “Smart Air”

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## AirCub™

## More detail on ozonation

### What is Ozone

Ozone (from the Greek ozein, odour) is a molecule consisting of 3 oxygen atoms (O<sub>3</sub>). It is a natural gas that does not require and does not leave chemical residue. The presence of ozone in the air is easily detectable thanks to its characteristic astringent odour, which, for example, can be perceived after a lightning storm. Ozone is a strong oxidising agent, capable of reacting with organic substances, and this characteristic has been readily used in many water and air treatment processes. Its bactericidal and fungicidal effects, as well as its inactivating effect on viruses, have long been known according to a very wide range of action, ranging from deodourisation to sterilisation. At the end of the sanitification cycle, ozone turns back into pure oxygen, so it does not leave any secondary chemical residue, thus making it completely ecologically friendly. Ozone offers a new organisational model, where hygiene and safety are no longer just a cost but also and above all a competitive advantage for new and better corporate positioning in the field of green cleaning.

### Why Ozonisation

- Oxidising agent.
- Bactericidal effect
- Fungicidal effect
- Inactivating viruses
- Elimination of bad smells

### Studies on the use of ozone

From studies carried out by the University of Naples Federico II, Faculty of Medicine and Surgery, Department of Preventive Medical Sciences, Hygiene Section, in environments with an average temperature of 25°C and an 80% humidity treated with different concentrations of ozone, it has been shown that:

By introducing 2 mg/m<sup>3</sup> of ozone into the environment for 120 seconds, the total elimination of the microbial charge was 70% in the air and 23% on surfaces;

By introducing 4 mg/m<sup>3</sup> of ozone for 240 seconds into the environment, the total elimination of the microbial charge was 70% in the air and 70% on surfaces.

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From the data obtained from research carried out at the University of Trieste, Department of Life Sciences (project D4 Rizoma year 2007-2008), there is evidence of a reduction of the microbial load of over 90% with concentrations not below 2 ppm (parts per million) for at least 6 hours of treatment. At higher concentrations the same result was obtained by decreasing the treatment time.

According to studies carried out by the University of Pavia, Department of Pharmacological Physiological Sciences in 2004, in a room of 115 m<sup>3</sup>, treated with ozonisation for 20 minutes, the bacterial air charge was reduced by 63% and that of yeasts and moulds by 46.5%, while the bacterial load of the surfaces has been reduced by 90% and that of yeasts and moulds by 99%.

## In summary

Ozone is a safe and environmentally friendly gas. It is not combustible, carcinogenic or irritant to the skin. It does not damage furniture, walls or fabrics and leaves no residue. Ozone does not damage food, in fact it is also approved by the Ministry of Health as a food preservative. Ozone is harmful only to micro-organisms, of any species and for this reason it is so effective in eliminating bacteria, viruses and umolds. Its safety, even in the air, is certified by the Ministry of Health, and in fact it is widely used as a Natural Presidium for the Sterilisation of Environments (protocol No. 24482 of 07.1996).

## Regulations on the use of ozone

### USA

That the ozone is compatible with human activities is declared by the FDA, the very strict body of the United States Department of Health and Human Services. On 26 June 2001, the FDA admitted the use of ozone as an antimicrobial agent in the gas phase or in aqueous solution in the production processes (treatment, processing, storage) of foods such as meat, eggs, fish, cheese, fruit and vegetables. In particular, ozone is labeled as a GRAS (Generally Recognized As Safe) element, which is a secondary food additive that is safe for human health.

### European Community

In Europe, the use of ozone for food purposes began back in 2003 with disinfection and sterilisation during water bottling processes. Commission Directive 2003/40/EC of 16 May 2003 established the list, concentration limits and labelling requirements for the constituents of natural mineral waters and the conditions for using ozone-enriched air for the treatment of natural mineral waters and spring waters. In particular, the possibility of separating the iron, manganese, sulfur and arsenic of some natural mineral waters was foreseen, precisely through an ozone-enriched air treatment. The Ministry of Health with the Protocol of 31 July 1996 no. 24482 recognised the use of ozone in air and water treatment as a natural defence used for sterilising environments contaminated by bacteria, viruses, spores, moulds and mites.

### Italy

The Ministry of Health with the Protocol of 31 July 1996 no. 24482 recognised the use of ozone in air and water treatment as a natural defence used for sterilising environments contaminated by bacteria, viruses, spores, moulds and mites.

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## Ozone and health

Ozone, even at levels above 0.2 ppm (threshold of perception of its odour) is not harmful to health. Only very high concentrations can become harmful:

- The concentration in nature at sea level is typically 0.3 ppm;
- For exposure with a maximum duration of 24 hours the maximum concentration should be 0.05 ppm;
- For exposures with a duration of 8 hours the maximum concentration must be 0.1 ppm;
- For short exposures the maximum concentration can reach 0.3 ppm;

The US Department of Labor, Occupational Safety and Health Administration issued an ozone exposure limit of 0.1 ppm (0.2 mg/m<sup>3</sup>) for 8 consecutive hours for a total of 40 weekly working hours.

## Ozone exposure limits

Safety regulations in force in Europe, USA and Switzerland (units of measurement used 1 ppm = 2,140 gr/mc).

European Union - European Directive (CEE 99)

This directive only covers outdoor air, and does not include closed workplaces

Warning Threshold	Reported average 1 hour = 0.360 mg/mc
Threshold of vegetation protection	Reported average 1 hour = 0.200 mg/mc
Threshold of information to the population	Reported average 1 hour = 0.180 mg/mc
Health protection threshold	Reported average 8 hours = 0.110 mg/mc
Threshold of vegetation protection	Reported average 1 day = 0.200 mg/mc

No specific unified European standards for ozone concentration in the workplace are available yet. Most European countries adopt laws and directives that show the same limits currently applied in Switzerland. For example in France, the Ministry of Labour has set the following values:

ELV Exposure Limit Value	0.2 ppm
AEV Average Exposure Value	0.1 ppm

Switzerland

The general legislation on air protection regulates outdoor air, while SUVA is responsible for workplace exposure limits.

General regulation on air protection	24-hour average = 0.120 mg/mc
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SUVA standards in the workplace:

Average maximum value at the workplace	0.200 mg/mc = 0.100 ppm
Maximum value not to be exceeded	0.400 mg/mc = 0.200 ppm

It is important to underline the fact that the values allowed by the Swiss Air Protection Regulations are often exceeded in the mountains on sunny days.

USA

The workplace ozone exposure limit is set by the OSHA (Occupational Safety and Health Administration).  
Exposure limits during work:

Heavy work	0.100 mg/mc = 0.05 ppm
Medium work	0.160 mg/mc = 0.08 ppm
Light work	0.200 mg/mc = 0.100 ppm

The limits in outdoor air are set by the EPA (Environmental Protection Agency) in the individual states.  
Limit in outdoor air: 0.08 ppm on average over 8 working hours (EPA standard) Individual states set alarm thresholds below these limits.

It is useful to note that the limits in the United States for outdoor air are less severe than the European norms, while the ozone concentration limits in the workplace are much more restrictive.

## Laboratory analysis of AirCub

For AirCub tests will be carried out at the analysis laboratory of the SEA Group of Trento, which will regulate the use and approve the effectiveness of the purification system by means of air ozonation and ionisation.  
The tests performed will concern:

In air

- Ozone and negative ions in the air
- Total microbial load MU 1962-2:06
- Moulds and yeasts MU 1962-2:06
- Coagulase-positive staphylococci
- Enterobacteria

On surfaces

- Microbial charge at 30°C ISO 18593: 2004 and UNI EN ISO 4833-1:2013
- Enterobacteriaceae ISO 18593:2004 and ISO 21528-2:2017
- Coagulase positive staphylococci (S. Aureus and other species) ISO 18593:2004 and UNI EN ISO 6888-1:2004
- Yeasts and moulds ISO 18593:2004 and ISO 21527-2:2008
- 

For information on the results of the tests listed, you will be provided with a report test from SEA laboratory.

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## Table indicative of the minimum times for the destruction of microorganisms through sterilisation with Ozone

<b>BATTERI</b>		<b>SPORE</b>	
Strep.Lactis	0'14"	Pencilim roqueforti	0'45"
Strep. Hemolyticus (Alpha Type)	0'09"	Pencilim Expansum	0'36"
Staph. Aures	0'10"	Pencilim Digitalum	2'26"
Staph. Albus	0'10"	Aspergillus Glaucus	2'26"
Micrococcus Sphaeroides	0'25"	Aspergillus Flavus	2'45"
Sarcina Lutea	0'44"	Aspergillus Niger	9'10"
Pseudonomas Fluorescens	0'10"	Rhizopus nigricans	6'06"
Listeria Monocytogenes	0'11"	Mucor Rocemosus (A)	0'58"
Proteus vulgaris	0'13"	Mucor Rocemosus (B)	0'58"
Serraia Marcenses	0'10"	Oospora lactis	0'18"
Bacillus subtilis	0'18"	<b>FERMENTI</b>	
Bacillus subtilis spores	0'36"	Saccharomyces elipsoideus	0'22"
Spirillum rubrum	0'10"	Saccharomyces SP.	0'29"
Escherichia Coli	1'00"	Saccharomyces cerevisiae	0'22"
Salmonella Typhi	3'00"	Lievito di birra	0'11"
Shigella dissenteriae	1'00"	Lievito di pane	0'14"
Brucella Albortus	1'00"	<b>PROTOZOI</b>	
Staphilococcus	10'00"	Paramecium	5'30"
Pyogenes aureus	10'00"	Nemotote EGGS	0'36"
Vibrio cholerae	20'00"	<b>ALGAE</b>	0'36"
<b>VIRUS</b>			
Bacteriophage (E.Co1i)	0'10"		
Tabacco mosaic	12'15"		
Influenza	0'10"		
Morbo del legionario	19'00"		
Ebola	20'00"		
Virus respiratori Sinci Nuale	21'00"		

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## Compatibility of materials with Ozone

MATERIAL	COMPATIBILITY
ABS	Good
Aluminium	Good/Fair
Bronze	Good
CPVC	Excellent
EPDM	Excellent
Natural Rubber	No
CSM	Excellent
Stainless steel 304	Good
Stainless steel 316	Excellent
PCTFE	Excellent
Neoprene	Good/Fair
Nylon	No
Brass	No
PC	Excellent
PP	Moderate
PMMA	Excellent
PVC	Moderate
Copper	Good
Silicone	Excellent
Teflon	Excellent
Glass	Excellent
Viton	Excellent

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## AirCub™

## Details on ionisation

### What are Ions

Ions are atoms or molecules that, having lost or acquired an electron, are positively or negatively charged. Nature produces both positive and negative ions in abundance in almost equal proportions (about 5 positive ions for 4 negative). In the open air of the countryside or mountains, ionisation occurs naturally thanks to ultraviolet rays and lightning; for this reason in the fresh country or mountain air there are from 2000 to 4000 negative ions per cubic centimetre. Just compare with a polluted city, like Los Angeles, to understand the differences: on the motorways of this city at rush hour there are fewer than 100 negative ions per cubic centimetre. To the detriment of environmental livability. Let's see why: negative ions bind to airborne particles such as smoke, pollen, bacteria, powders, aromas and they charge them electrostatically, thus preventing them from turning freely in the air and being breathed. The result is cleaner air and the creation of a healthy and clean bio-climate.

Negative ions are odourless, tasteless, and invisible molecules that we inhale in abundance. Once they reach our bloodstream they produce biochemical reactions that increase levels of chemical serotonin, thus helping to alleviate depression and stress and to increase our energy during the day. The negative ions therefore have a relaxing effect on our nervous system and, furthermore: they facilitate the acquisition of oxygen in the air into our lungs, promote the function of the body, improve the immune system of our body and have a beneficial effect on the whole cardiovascular, endocrine and nervous system. That's why they are so important. And where nature cannot produce them, AirCub takes over.

### The most obvious effects

- Drastic decrease in the risks of allergies;
- Elimination of the causes of asthma;
- Elimination of bad smells;
- Reduction and presence of pollens, moulds and fungi;
- VOC (Volatile Organic Compounds)

### Ionisation studies

A recent research by the EPA (Environmental Protection Agency) estimates that the air inside homes can be up to 5 times more polluted than the air you breathe in the metropolis. This problem is the subject of increasing attention in industrialised countries and the World Health Organization itself has underlined its gravity. The main sources of indoor pollution can be of chemical derivation (formaldehyde, VOCs, solvents,

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cigarette smoke, etc.), of biological nature (bacteria, moulds, allergens, mites, etc.), of physical origin (radiation, electromagnetic waves, etc.).

Scientific research was born from the empirical observation that people who live or work in non-natural environments often show pathologies that are not related to pre-identified clinical pictures, often in these subjects are aggravated diseases in being caused by the most diverse etiologies. There are changes in the mood or state of health of individuals during special seasonal or atmospheric events: from trivial headaches to respiratory or behavioural disorders. The progressive pollution of the atmosphere and of the urban and working environments has exploded a wide range of pathological processes directly connected to the ionic modification of the air. The number of atmospheric ions is lowered by central heating, air conditioning, smoke, static electricity (generated, for example, by the considerable use of synthetic fibres) and electric fields.

## Data on the effectiveness of the ionisation module

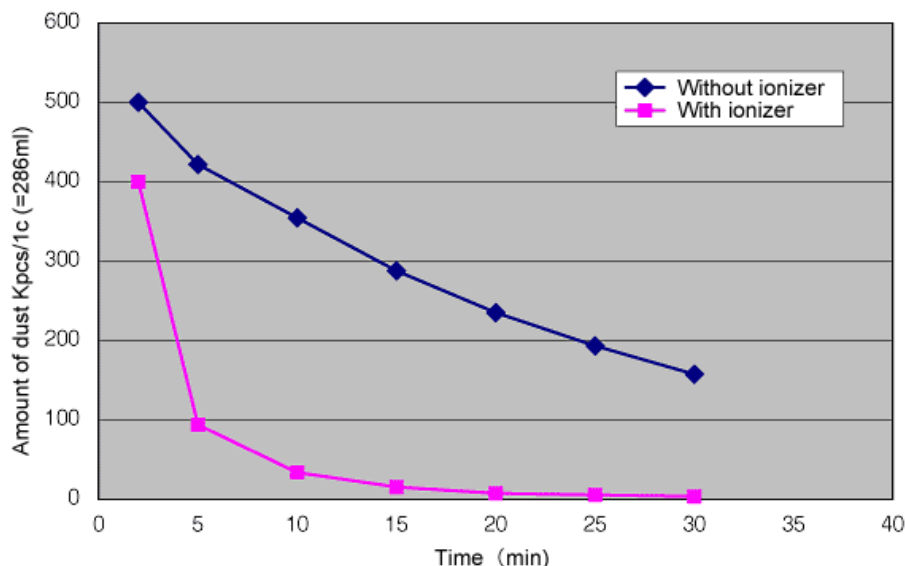
Air cleaning test:

A high air cleaning effect is observed for cigarette smoke and dust particles

Particle samples: cigarette smoke particles, dust particles

Test site: inside a vehicle (a small saloon car from the T company)

Measurement equipment: particle counter from Rion Co., Ltd. (Measurable particle size from 0.3 to 0.5  $\mu\text{m}$ )



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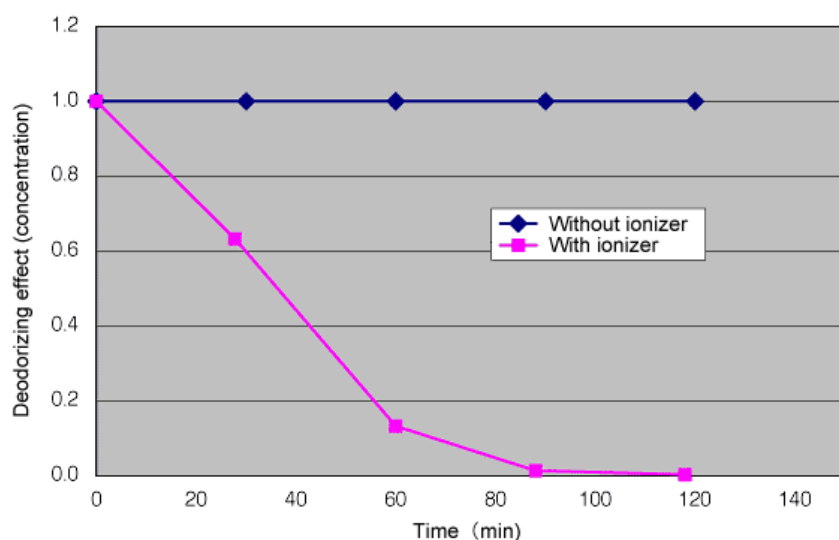
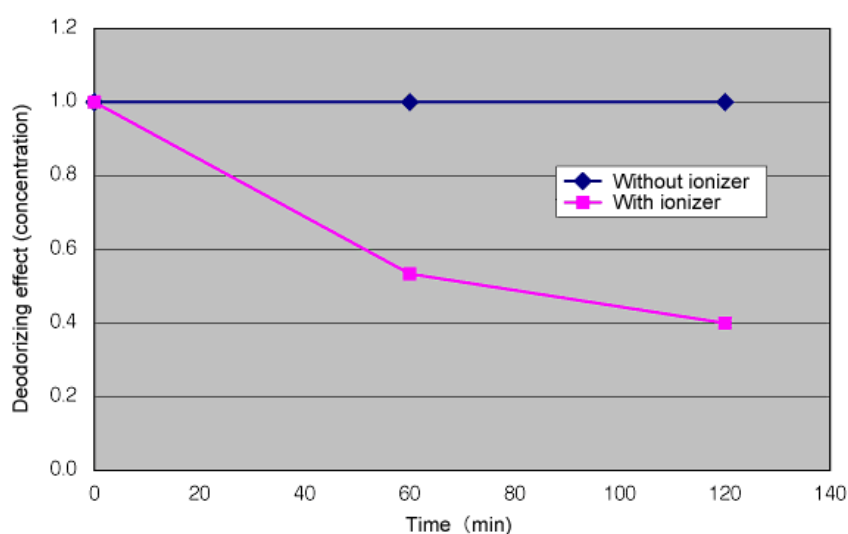
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Deodourisation test:

It shows a strong deodourising effect for the typical sources of hydrogen sulphide and formaldehyde odour

Test institute: Boken quality assessment institute

Chemical samples: hydrogen sulfide, formaldehyde



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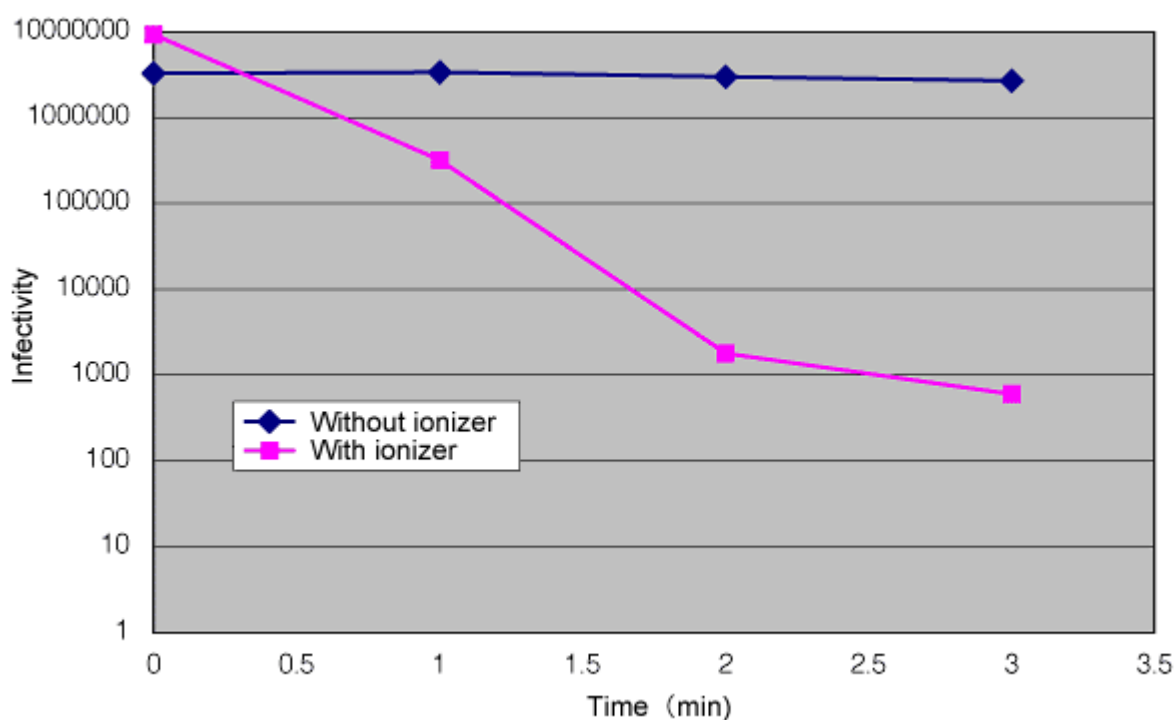
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## Anti-virus test:

Demonstrates a strong effect on the air virus

Trial institution: Biomedical Science Association

Example virus: type A H3N2 influenza virus (type A Hong Kong) type A



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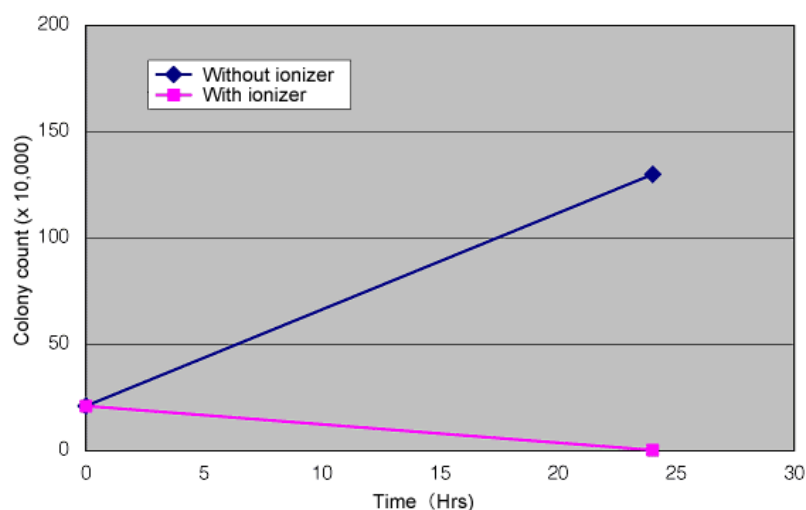
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Bacterial charge elimination test:

High anti-bacterial effect is demonstrated against *Bacillus coli* and *Staphylococcus Aureus*

Test institute: Boken quality assessment institute

Bacteria samples: *Bacillus coli*, *Staphylococcus aureus*



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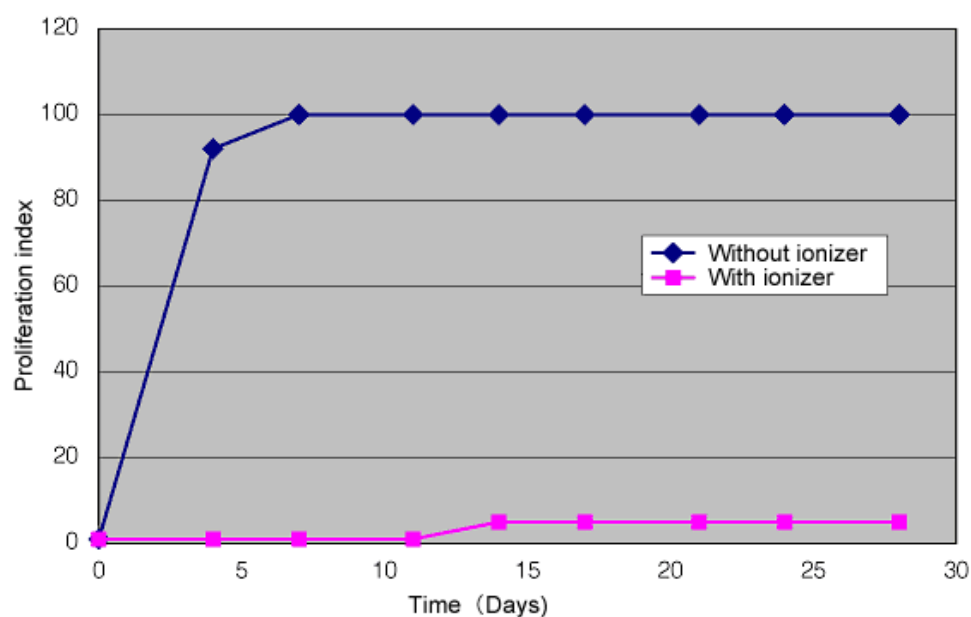
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Anti-mould test:

Test institute: Boken quality assessment institute

Sample mould: compatible with JIS Z 2911



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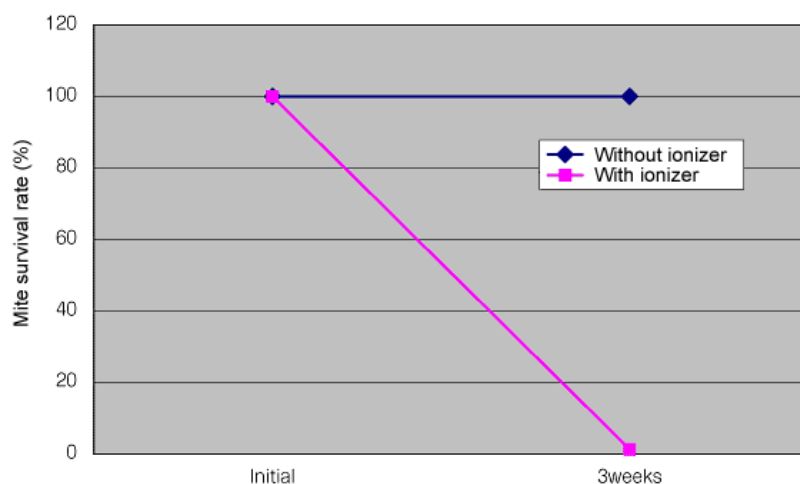
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Mite control test:

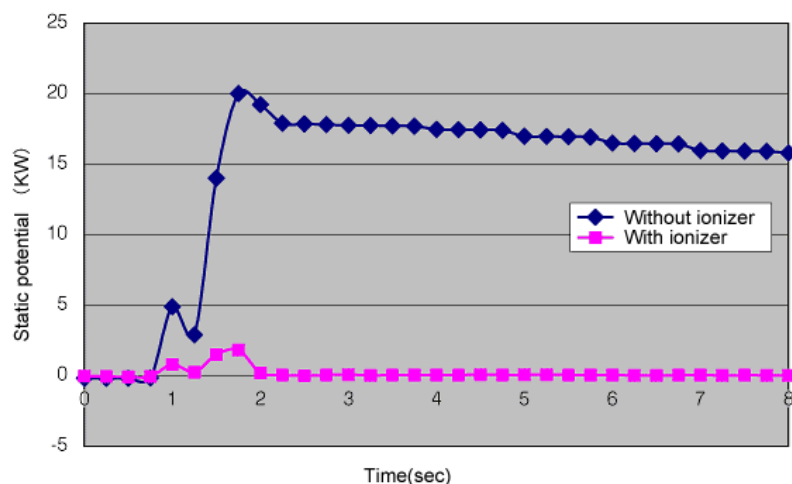
Demonstrates an anti-mite effect

Test institute: VIABLE Co. Ltd.

Sample mite: European house dust mite



Static elimination test on the human body:



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