air control

Tecnologie per il controllo dell'aria

Europe & MENA

DUST FREE®

Breathe The Difference.

Active Sanitizing Systems and components

Catalog price list 2021

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WHAT IS THE INDOOR AIR QUALITY ?

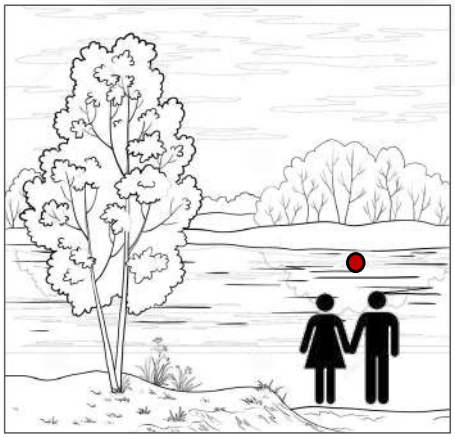
DEFINITION "refers to the quality of the air inside buildings as represented by concentrations of pollutants and thermal (temperature and relative humidity) conditions that affect the health, comfort and performance of occupants."

In our society, we spend up to **90%** of our time **indoors** and 30-40% of it at the workplace: for this reason, the indoor pollution results to be more dangerous respect to outdoor environments, it is supposed that the 40 % of absence from work due illness is caused by problems related to indoor air quality inside the offices.

INDOOR AND OUTDOOR COMPARISON

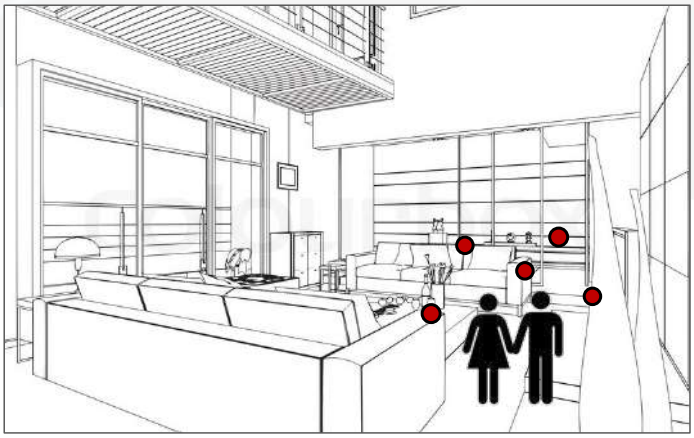
EPA *(Environmental Protection Agency - USA)*, through IEMB *(Indoor Environment Management Branch)* compared the level of **concentration of some air pollutants** recorded in the indoor environments with the level recorded in the **outdoor environment**. The analysis of the data confirmed that indoor concentrations compared to outdoor ones are generally **1 to 5 times bigger...**

OUTDOOR



1 bacterium

INDOOR



5 bacteria

... indoor exposure is 10 to 50 times higher that outdoor one.

FACTORS THAT INFLUENCE THE IAQ

EXTERNAL POLLUTED AGENTS
atmosphere/water/soil...

CHARACTERISTIC OF INDOOR ENVIROMENT
building material/furniture...

INSTALLATIONS
Duct work systems...

HUMAN ACTIVITIES
Metabolic processes/ pets/ smog/food cooked...

INDOOR POLLUTION - CAUSES

Common activities like cooking, heating, smoking release in the air gasses and particles, a lot of them are potentially dangerous for human beings.
Formaldehyde is another substance potentially dangerous that is released by building materials, coatings and insulations.

Dust, pollen, micro particles generated by vehicular traffic, smoke, cooking of food and bacteria are some of the substances that remain suspended in the air until they will deposit on walls, furniture and floors or they go inside the ducts generating **biofilms**.

PERCEIVABLE POLLUTION

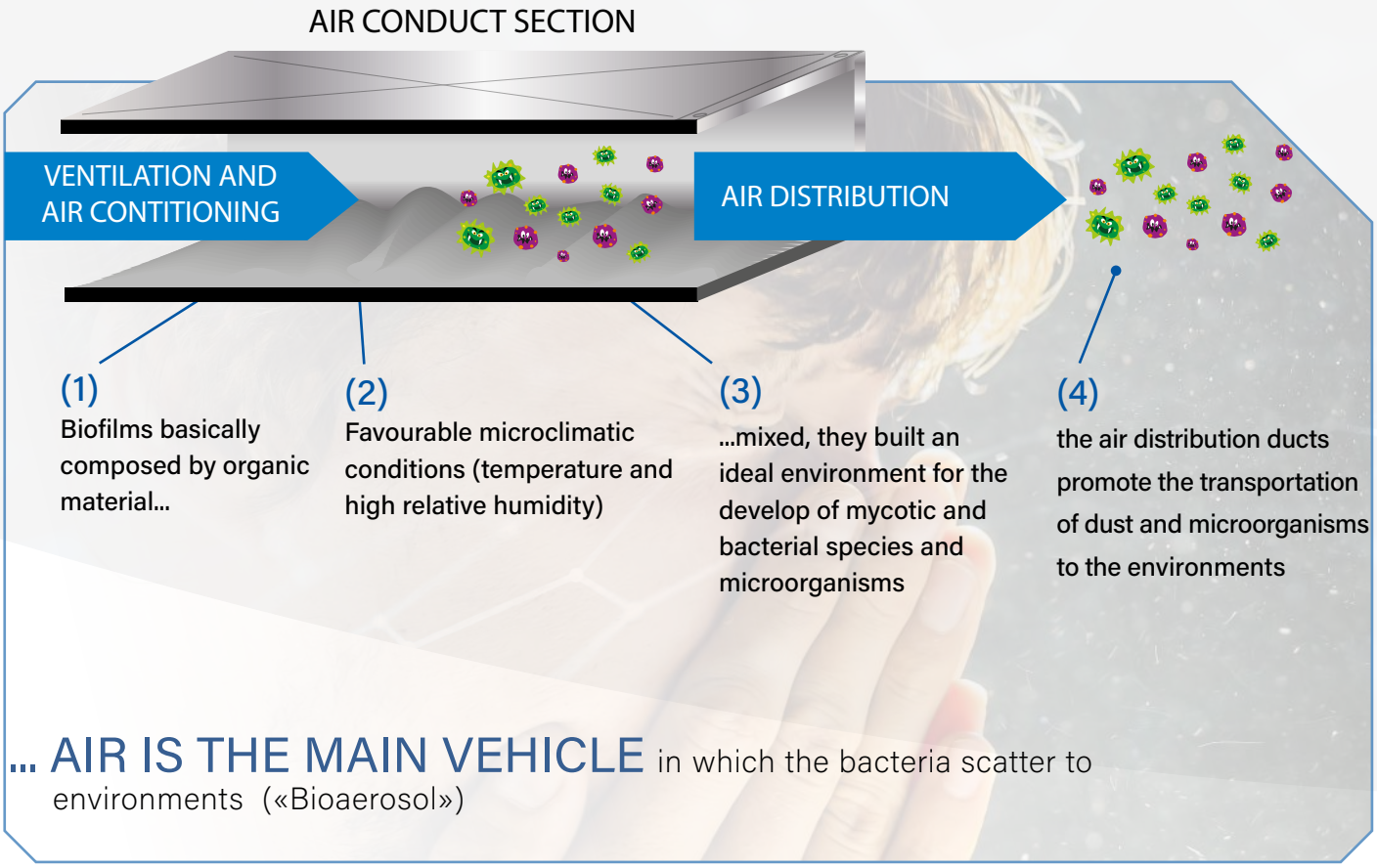
IMPERCEPTIBLE POLLUTION

NEW CONSTRUCTION METHODS

The new generations of buildings are erected with high isolated materials:
PRO -> guarantee to have less thermal dispersion, that make easier to heat up or cool down and, in this way, the energetic consumption is decreased.
CONS -> the building to breathe needs specific ventilation systems, that with time, if contaminated, can become another factor that contaminate the indoor environments.

AERAULIC DUCTS

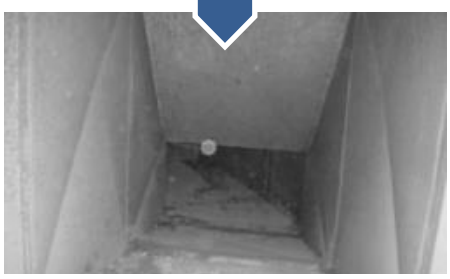
With times the **ducts** can easily become the prey of **microorganisms** like bacteria, mold, allergens, smell and viruses that increase the **potential infection** of people through the air flow.



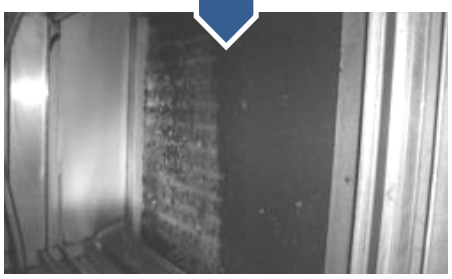
... AIR IS THE MAIN VEHICLE in which the bacteria scatter to environments («Bioaerosol»)

INDOOR POLLUTION - RISKS

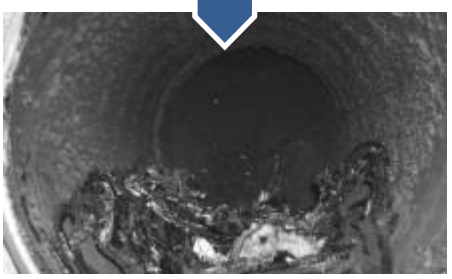
HYGIENIC-SANITARY



ENERGETIC



FIRE



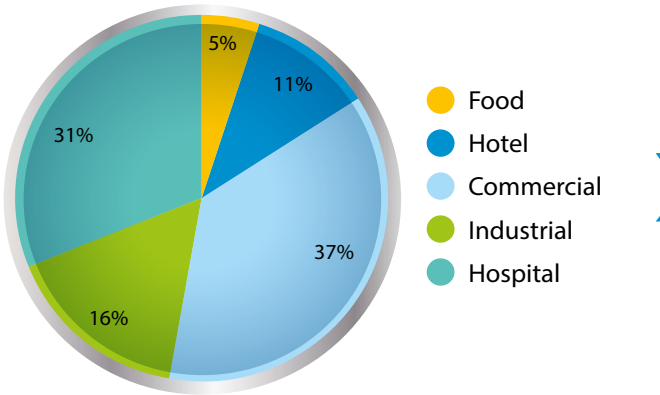
Pollution from fine dust, dust pollen debris and spores are the main causes of allergic disease (damages to mucous, skin, respiratory system) speeding up the deterioration of the equipment inside the premises. Bacteria, viruses and fungi, potentially pathogenic, are the cause of many **infectious disease**.

INDOOR POLLUTION - EFFECTS

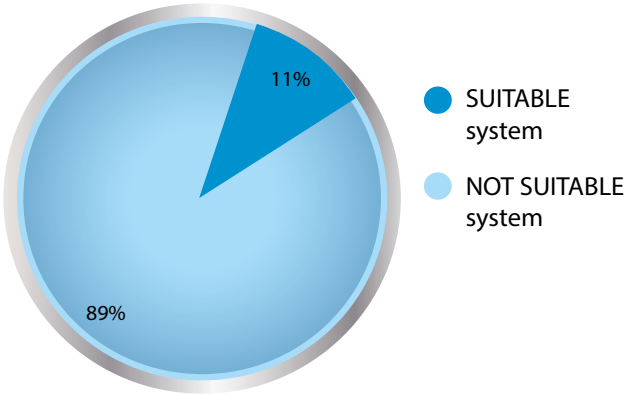
From statistical studies carried out on a significant sample of buildings (112), it has become known that:

- **65%** of air ducts is contaminated
- **65%** of the system does not ensure an adequate air exchange
- **35%** of the sampled buildings, allergy problems were observed
- **10%** of the sampled building are infected with pathogenic bacteria
- **8%** of the sampled buildings contained in airborne fiberglass particles
- **4%** of the sampled buildings, the air contains carbon monoxide produced by traffic emissions

INSPECTED SYSTEM FOR SECTOR TYPE



HYGIENIC-SANITARY EXAMINATION OF SYSTEMS



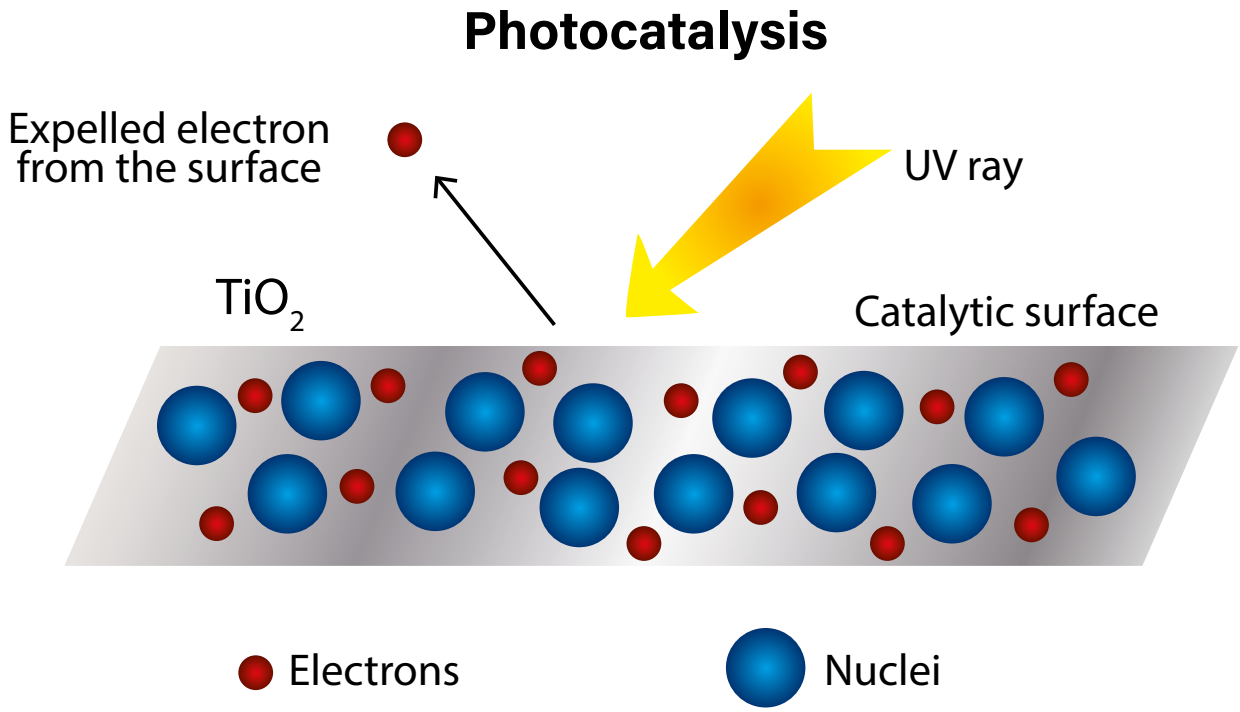
PCO™ TECHNOLOGY

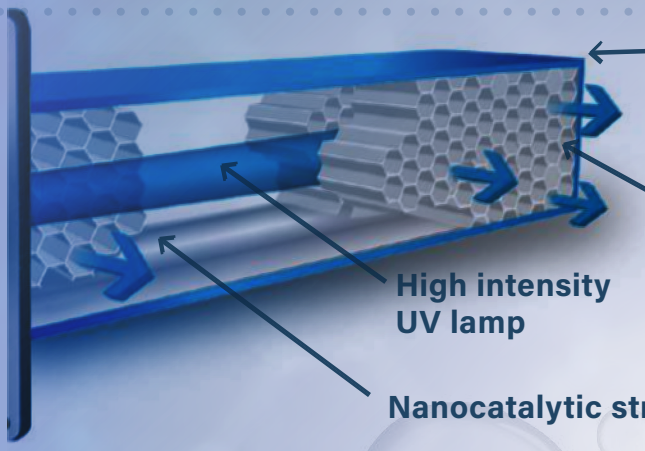
- PCO™ technology, better known as photocatalytic oxidation, has been developed and used by NASA to sanitize the environments intended for space missions, where one of the main needs are **quality** and **healthiness** of air.

- PCO™ technology imitates and reproduces what happens in nature, through photocatalysis, a process which, thanks to the combined action of the sun's UV rays, humidity present in the air and some noble metals present in the nature, generates **oxidizing ions and hydrogen peroxides** that can destroy most of the toxic and polluting substances.

- The photochemical reaction generated thanks to PCO™ allows the destruction of pollutants (bacteria, viruses and mold) using an active natural ingredient.

- The hydrogen peroxide (H_2O_2), generated by the photochemical reaction in small quantities – below 0,02 PPM – is highly effective in destroying the microbial load, both in the air and on the surfaces.





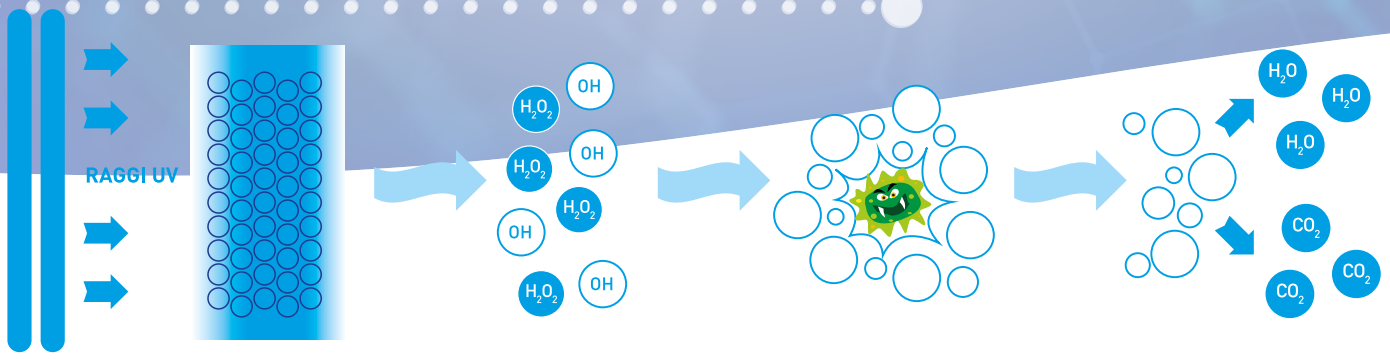
Space Technology

The Dust Free modules, hit by airflow, generate a photochemical reaction that binds one atom of oxygen (O) to the pre-existing hydrogen (H) and oxygen (O) atoms of the humidity (H_2O) thus generating **Hydrogen peroxide** (H_2O_2) **and hydroxyl radicals** (·OH).

The hydrogen peroxide (H_2O_2), generated by the photocatalytic reaction in small quantities – below 0,02 PPM – is highly effective in **destroying the microbial load**, both in the air and on the surfaces.

► For an optimal functioning the **relative humidity** of the air must be at least **20%**.

ACTIVE SANITIZATION



UV lamp | **Catalyst alloy** | **Hydroxyl radicals (·OH) + Hydrogen peroxide (H_2O_2)** | **Decomposition of bacteria, viruses and pollutants** | **Decomposition result: CO_2 + H_2O**

The hydrogen peroxide (H_2O_2), spread and carried by the airflow, is effectively active on sanitize both on the **duct** surfaces, and on the air of the **environment**, but also by contact on the surfaces of the treated environments.

PCO™ technology of Dust Free modules exploits the combined action of UV rays, produced by a special lamp, and of a catalyst structure made by a honeycomb metal alloy. The metal alloy is composed basically of TiO_2 (Titanium dioxide) and other noble metals in lower quantities.

The air, load of humidity (H_2O), pass through Dust Free modules composed by a metal alloy (4/5 metals). Thanks to the action of the high intensity UV lamp, start an oxidation photochemical reaction that binds an atom of oxygen to the water molecule H_2O; the **hydrogen peroxide** (H_2O_2), spread into the surrounding environment, allow a safety, effective and mostly complete sanitization.

DIFFERENCES BETWEEN TECHNOLOGIES

PASSIVE SYSTEMS

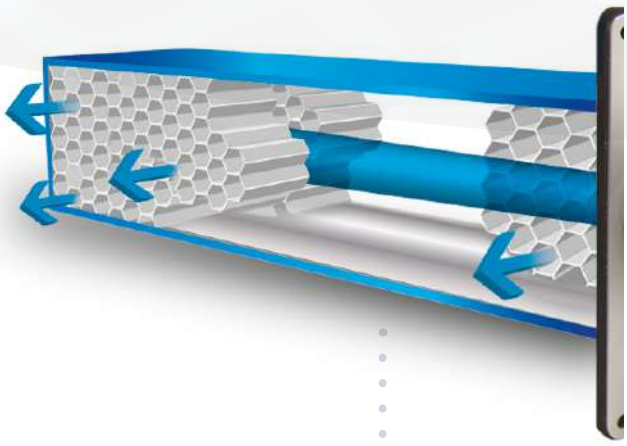
Keep and destroy some of the toxic substances in the point where they are installed.
They are not directly effective on the toxic substances present in the environment.

- Traditional Filters
- Germicidal Lamps

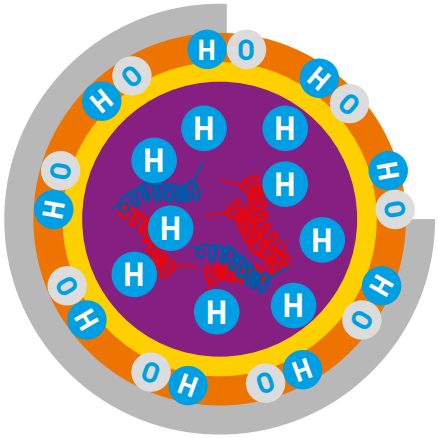
ACTIVE SYSTEMS

Thanks to the oxidizing agents that are generated by PCO™, there is a sanitizing effect, not only in the point in which they are installed but also inside the aeraulic circuit and in the treated environments.

PCO™ TECHNOLOGY
Photocatalytic Oxidation

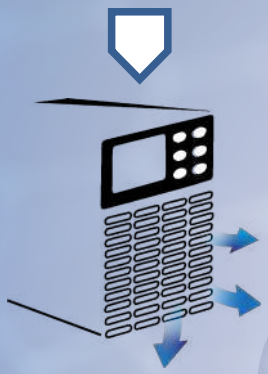


With the photocatalytic reaction, the H_2O_2 generated is able to attack and destroy the molecular structure of pollutants, taking away protons to the cell and give rise to a water recombination.



ACTIVE SYSTEM - DIFFERENCES

OZONE

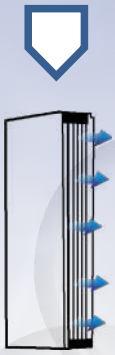


CHARACTERISTIC
Ozone (O_3) is produced from oxygen molecules excited by electrical discharges. The atom of oxygen is known as a dissolved radical that look for organic compounds for give rise an oxidation reaction.

PRO
Ozone (O_3) is a gas highly instable able to spread itself in the treated environments, oxidizing all the organic compounds.
It is also able to neutralize the odours.

CON
The exposure to the ozone could be very dangerous if extend with time both for human being and for materials.
Do not act on non-organic particulate.

IONIZATION

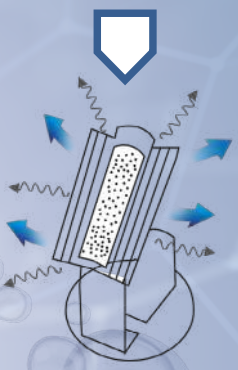


CHARACTERISTIC
The ionization is produced by high voltage electrical discharges.

PRO
Positive and negative ions aggregate the microparticulate suspended in the air, that when become bigger, heavier and are taken away from the suspension, thus in this way are not any more dangerous for human.

CON
It is highly instable therefore it is not effectively on long part of ducts.
Often produces high concentrations of Ozone.
It must be combined with a filter able to hold medium particulate matter.

PCO™ with IPG



CHARACTERISTIC
Advance technology with photocatalytic oxidation. Hydroperoxides reduce systematically microbes and gasses in the space to be conditioned. The IPG system can generate a bipolar ionization without the ozone production.

PRO
Thanks to the variety of oxidising agents this treatment is extremely active versus a greater number of microbes and gasses. H_2O_2 molecule and the oxidizing agents produced by this technology are more stable respect to a normal ionization. This makes more effective the sanitization also on long part of ducts and on treated environments.

CON
It must be combined with a filter able to hold medium particulate matter.

TECHNOLOGICAL FUNCTIONALITY OF FILTERS

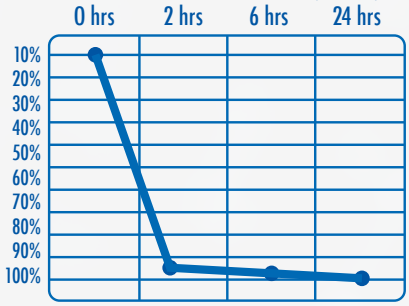
✓ EFFECTIVE

	HEPA	SYNTHETIC FILTERS MIDDLE EFFICIENCY	ACTIVE CARBON FILTERS	ECTROSTATIC FILTERS	NEGATIVE ION GENERATOR	OZONE GENERATORS	UV	PCO IPG
FINE PARTICULATE	✓			✓	✓			✓
MEDIUM PARTICULATE	✓	✓	✓	✓	✓			
PARTICULATE ATM	✓	✓	✓	✓	✓			✓
MICROBES/ BACTERIA	✓				✓	✓	✓	✓
FUNGI	✓			✓	✓	✓	✓	✓
MOLD	✓					✓	✓	✓
GAS	✓					✓	✓	✓
ODORS						✓	✓	✓
AIR-CONDITIONED SPACES						✓		✓

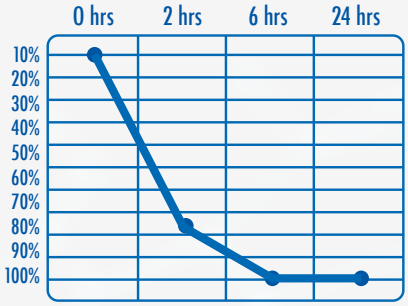
BENEFITS OF PCO™ TECHNOLOGY

The tests, conducted by American laboratories and universities, prove the effectiveness of the photocatalytic oxidation technology in destroying the bacterial load present in the environment.
The tests were carried out in a 24-hours' time span.

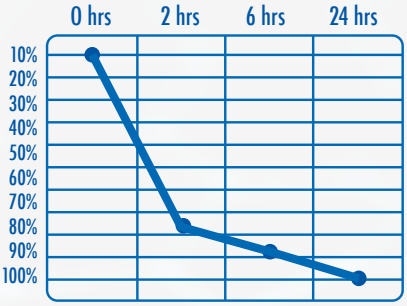
STAPHYLOCOCCUS AUREUS (MRSA)



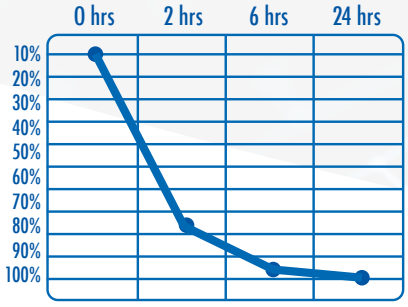
ESCHERICHIA COLI



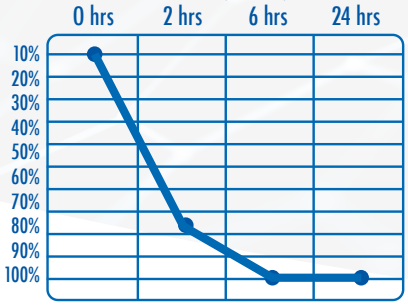
STREPTOCOCCUS SPP.



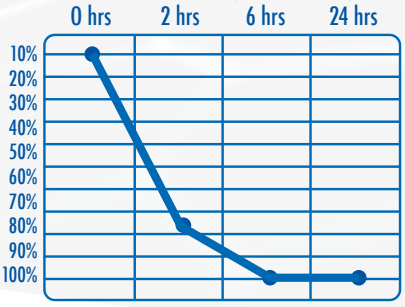
CANDIDA ALBICANDIS



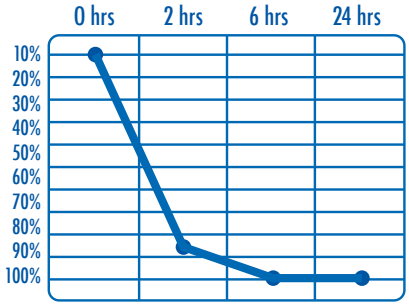
SWINE (H1N1)



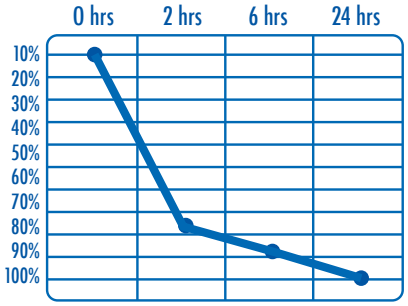
PICORNVIRIDAS (HEPATITIS A)



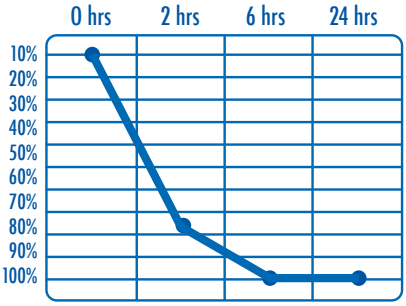
S. CHARTARUM



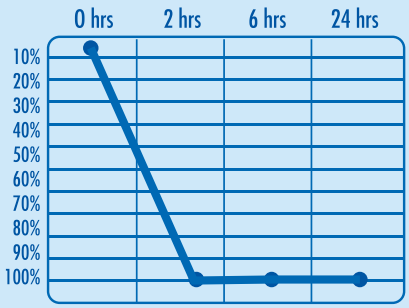
PSEUDOMONAS SPP.



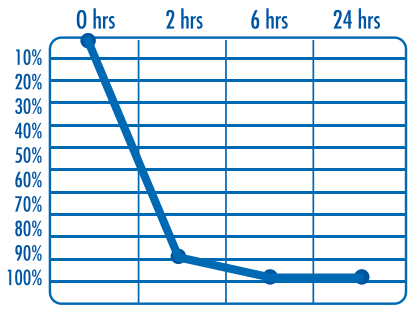
MURINE NOROVIRUS



LEGIONELLA PNEUMOPHILA



ASPERGILLUS BRASILIENSIS



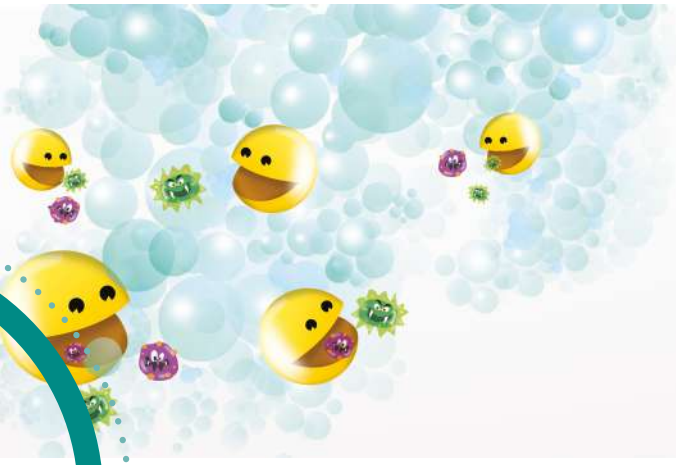
99%

BACTERIA REDUCTION

THE BENEFITS...

Shortly, the benefits associated with the installation of Dust Free modules with PCO™ technology can be summarized as follows:

- Continuous sanitization able to reduce the risk of contamination and exposure 24/24h
- Active treatment of the canals, in the rooms and on the surfaces themself
- Elimination of germs, bacteria e viruses, which proliferating cause the spread of diseases and allergies
- Elimination of odours
- Reduction of harmful microparticles present in the air, including ultra-fine matter not generally treated by common filters
- Reduction of dust clusters
- Better general indoor air quality
- Reduction of the periodic interventions (and related costs) foreseen for the cleaning of the aeraulic channels
- Reduction of the interventions (and related costs) foreseen for the sanitization and remediation of the aeraulic channels



ACTIVE SANITIZATION EFFECTS

Europe & MENA
DUST FREE®
Breathe The Difference.

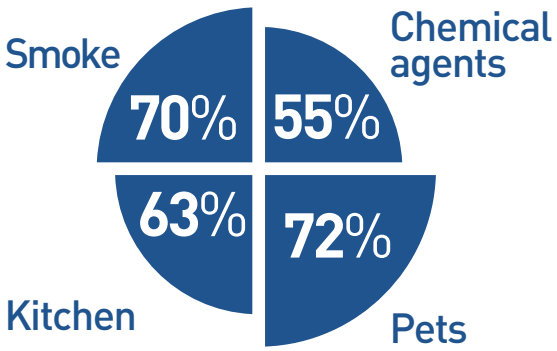
ACTIVE 24 H / 24
IN EVERY TREATED ROOM

ELIMINATES POLLUTING AGENTS
WHEREVER THEY ARE

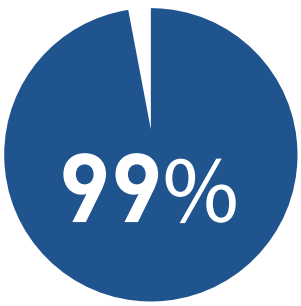
UNIQUE SYSTEM ABLE TO ACT
ALSO ON SURFACES

REMOVE SAGELY AND EFFECTIVE
BACTERIA AND ODORS

ODOR REDUCTION



BACTERIA, MOLD AND VIRUSES REDUCTION



MAIN SECTORS OF USE

FOOD / FOOD TRANSPORT

Elimination of mold and bacteria.
Better conservation = more freshness and quality.

INDUSTRIAL

Sanitization of ducts and environments with destruction of chemical/biological pollutants.
Healthier work environments.

MEDICAL/HOSPITAL

Destruction of bacteria proliferation.
Healthcare environments less exposed to bacterial contamination.

RESIDENTIAL SYSTEM HAVC

Elimination of bacteria, allergens and odors.
Healthier and more comfortable environment.

OFFICES/WORKPLACES

Elimination of bacteria, allergens and odours.
Decreased disease rate.

RESTAURANT/HOTELS

Elimination of odours and bacteria.
Most pleasant and long-lasting stay in the premises.

TRASPORT

Elimintion of bacteria.
Less expoure to bacteria contamination. Healthier and more comfortable enviroment.

PRODUCTS

The modules for the sanitization can be divided in two main categories:

Residential

MICROPURE 5”

Tertiary/Offices

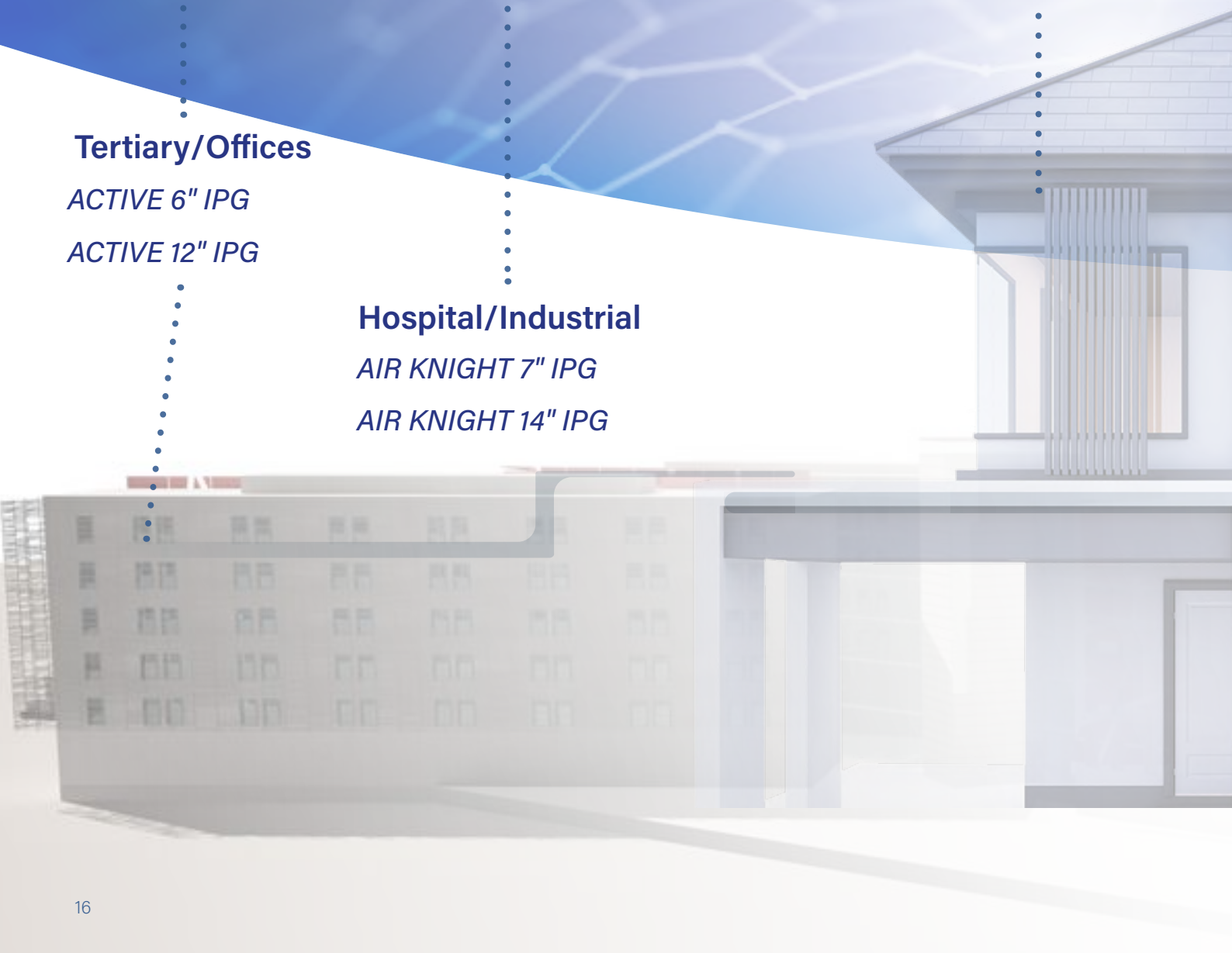
ACTIVE 6" IPG

ACTIVE 12" IPG

Hospital/Industrial

AIR KNIGHT 7" IPG

AIR KNIGHT 14" IPG



DUCTS

FC-UNIT 3"

KIT SANI 1

KIT SANI 2

ROOM

STAND ALONE

FC-CASE

DUCT MODULES

SYSTEM FOR FANCOIL / AHU / DUCT

MICROPURE® 5"

MX4 IONIC-OXIDATION

DF14015-24V

Maximum Airflow
1500 m³/h

DESCRIPTION OF PCO™ TECHNOLOGY

The **PCO™ technology** of Micropure modules take advantage of the combined action of rays of a **special UV lamp** with a catalyst structure made of a honeycomb metal alloy, basically composed of **TiO_2 (titanium dioxide and other 3 noble metals** in lower quantity.
The Micropure modules, hit by airflow, give rise to a photochemical reaction that produce hydroxyl radicals (▪OH) and hydrogen peroxide (H_2O_2) in small quantities – below 0,02 PPM. H_2O_2 e ▪OH allow the sanitization of both the airflow and of the duct surfaces thanks to the high decomposition efficacy of pathogens.
Effective against bacteria, viruses, mold, allergens, odours, organic and volatile compounds.

APPLICATION AREAS

► RESIDENTIAL ► SMALL OFFICES

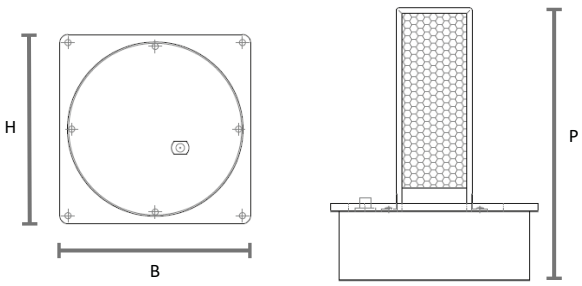
INSTALLATION METHODS

► In HVAC systems – residential heating, ventilation and air conditioning
► In air delivery or connection plenum

• UV lamp replacement every two years

TECHNICAL SPECIFICATIONS

Module dimensions (BxHxP)	15,2 x 15,2 x 20,2 cm
Hole depth	14,5 cm
Weight	1,1 Kg
Electrical characteristics	24 V 50/60 Hz
Electrical current intensity	0,4 A
Max working temperature	60° C
Mechanics	Safety plug&play switch Correct monitoring system of UV lamp operation



ACTIVE

TOTAL HOME AIR PURIFICATION

6"

DF13070

Maximum Airflow
2000 m³/h

DESCRIPTION OF PCO™ TECHNOLOGY

The **PCO™ technology** of ACTIVE modules take advantage of the combined action of rays of a **special UV lamp** with a catalyst structure made of a honeycomb metal alloy, basically composed of **TiO_2 (titanium dioxide and other 3 noble metals** in lower quantity.
The ACTIVE modules, hit by airflow, give rise to a photochemical reaction that produce hydroxyl radicals (•OH) and hydrogen peroxide (H_2O_2) in small quantities – below 0,02 PPM. H_2O_2 e •OH allow the sanitization of both the airflow and of the duct surfaces thanks to the high decomposition efficacy of pathogens.
The ACTIVE modules are also equipped with two devices with **negative ionization technology** that give make these modules more performant on odor reduction and active also on the ultrafine particulates, if inhaled they are the most dangerous.
Effective against bacteria, viruses, mold, allergens, odours, organic and volatile compounds, ultrafine particulates.

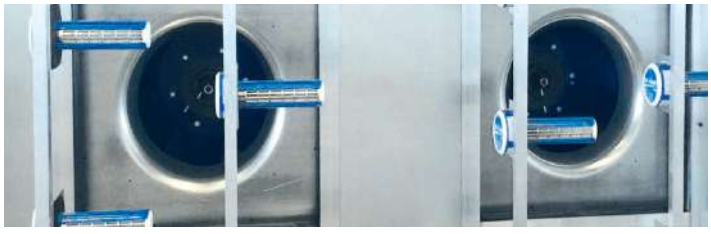
APPLICATION AREAS

► OFFICES ► TERTIARY

INSTALLATION METHODS

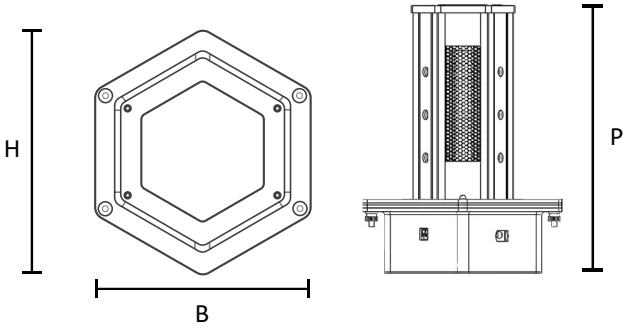
► Channel in both new and existing plants
► On board AHU
► In HVAC systems – residential/offices
► In air delivery or connection plenum

• *UV lamp replacement every two years*



TECHNICAL SPECIFICATIONS

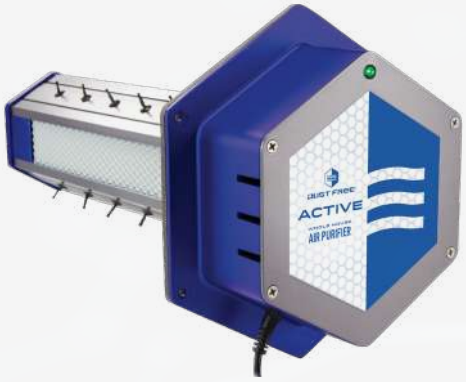
Module dimensions (BxHxP)	18 x 20 x 24 cm
Hole depth	17,5 cm
Weight	1,3 Kg
Electrical characteristics	24 V 50/60 Hz
Electrical current intensity	1,4 A
Max working temperature	60° C
Mechanics	Safety plug&play switch
	Correct monitoring system of UV lamp operation



ACTIVE

TOTAL HOME AIR PURIFICATION

12"



DF13071

Maximum Airflow

3000 m³/h

The **PCO™ technology** of ACTIVE modules take advantage of the combined action of rays of a **special UV lamp** with a catalyst structure made of a honeycomb metal alloy, basically composed of **TiO_2 (titanium dioxide and other 3 noble metals** in lower quantity.
The ACTIVE modules, hit by airflow, give rise to a photochemical reaction that produce hydroxyl radicals (•OH) and hydrogen peroxide (H_2O_2) in small quantities – below 0,02 PPM. H_2O_2 e •OH allow the sanitization of both the airflow and of the duct surfaces thanks to the high decomposition efficacy of pathogens.
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Effective against bacteria, viruses, mold, allergens, odours, organic and volatile compounds, ultrafine particulates.

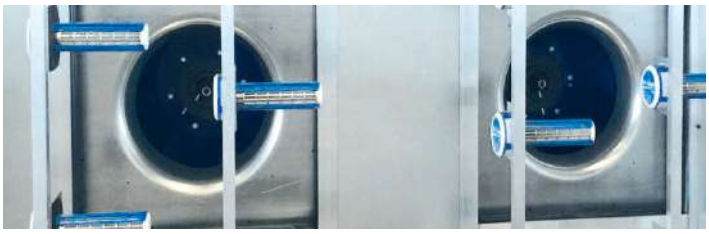
APPLICATION AREAS

► OFFICES ► TERTIARY

INSTALLATION METHODS

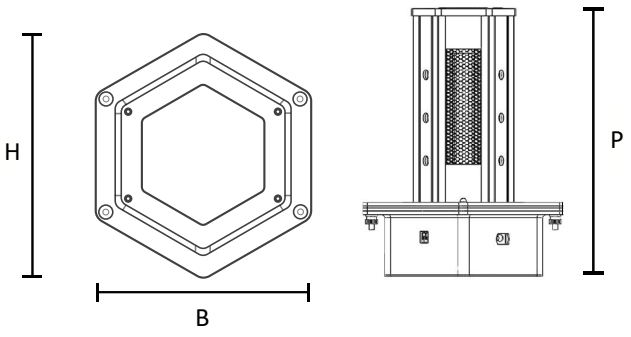
► Channel in both new and existing plants
► On board AHU
► In HVAC systems – residential/offices
► In air delivery or connection plenum

• *UV lamp replacement every two years*



TECHNICAL SPECIFICATIONS

Module dimensions (BxHxP)	18 x 20 x 35,5 cm
Hole depth	29 cm
Weight	1,4 Kg
Electrical characteristics	24 V 50/60 Hz
Electrical current intensity	1,4 A
Max working temperature	60° C
Mechanics	Safety plug&play switch Correct monitoring system of UV lamp operation



air control
Tecnologie per il controllo dell'aria

Air Knight® 7"

Air Knight IPG AIR PURIFIER

DF09998

TEST COVID-19 CERTIFIED

Maximum Airflow
2500 m³/h

DESCRIPTION OF PCO™ TECHNOLOGY

The **PCO™ technology** of AIR KNIGHT modules take advantage of the combined action of rays of a **special UV lamp** with a catalyst structure made of a honeycomb metal alloy, basically composed of **TiO_2 (titanium dioxide and other 4 noble metals** in lower quantity.
The AIR KNIGHT modules, hit by airflow, give rise to a photochemical reaction that produce hydroxyl radicals (•OH) and hydrogen peroxide (H_2O_2) in small quantities – below 0,02 PPM. H_2O_2 e •OH allow the sanitization of both the airflow and of the duct surfaces thanks to the high decomposition efficacy of pathogens.
The AIR KNIGHT modules are also equipped with two devices with **bipolar ionization technology** that give make these modules more performant on odors reduction and active also on the ultrafine particulates, if inhaled they are the most dangerous.
Effective against bacteria, viruses, mold, allergens, odor, organic and volatile compounds, ultrafine particulates.

APPLICATION AREAS

► INDUSTRIAL ► HOSPITAL/COMMERCIAL

INSTALLATION METHODS

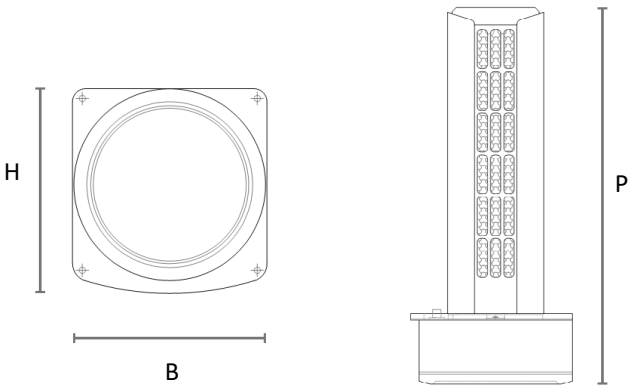
► Channel in both new and existing plants
► On board AHU
► In HVAC systems – residential/offices
► In air delivery or connection plenum

• *UV lamp replacement every two years*

TECHNICAL SPECIFICATIONS

Module dimensions (BxHxP)	15 x 15,8 x 25,2 cm
Hole depth	17,5 cm
Weight	1,3 Kg
Electrical characteristics	24 V 50/60 Hz
Electrical current intensity	0,8 A
Max working temperature	60° C

Mechanics Safety plug&play switch
Correct monitoring system of UV lamp operation



Air Knight® 14"

Air Knight IPG AIR PURIFIER

DF09963

TEST COVID-19 CERTIFIED

Maximum Airflow
4000 m³/h

DESCRIPTION OF PCO™ TECHNOLOGY

The **PCO™ technology** of AIR KNIGHT modules take advantage of the combined action of rays of a **special UV lamp** with a catalyst structure made of a honeycomb metal alloy, basically composed of **TiO_2 (titanium dioxide and other 4 noble metals** in lower quantity.
The AIR KNIGHT modules, hit by airflow, give rise to a photochemical reaction that produce hydroxyl radicals (•OH) and hydrogen peroxide (H_2O_2) in small quantities – below 0,02 PPM. H_2O_2 e •OH allow the sanitization of both the airflow and of the duct surfaces thanks to the high decomposition efficacy of pathogens.
The AIR KNIGHT modules are also equipped with two devices with **bipolar ionization technology** that give make these modules more performant on odors reduction and active also on the ultrafine particulates, if inhaled they are the most dangerous.
Effective against bacteria, viruses, mold, allergens, odor, organic and volatile compounds, ultrafine particulates.

APPLICATION AREAS

► INDUSTRIAL ► HOSPITAL/COMMERCIAL

INSTALLATION METHODS

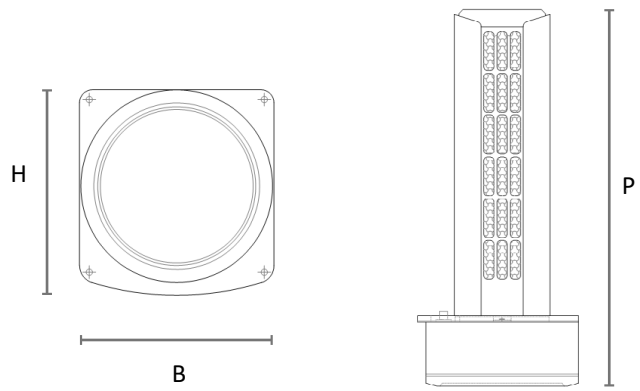
► Channel in both new and existing plants
► On board AHU
► In HVAC systems – residential/offices
► In air delivery or connection plenum

• *UV lamp replacement every two years*

TECHNICAL SPECIFICATIONS

Module dimensions (BxHxP)	15 x 15,8 x 37 cm
Hole depth	30 cm
Weight	1,4 Kg
Electrical characteristics	24 V 50/60 Hz
Electrical current intensity	1,2 A
Max working temperature	60° C

Mechanics Safety plug&play switch
Correct monitoring system of UV lamp operation



air control
Tecnologie per il controllo dell'aria

FC UNIT

3"

DF09960

Maximum Airflow
800 m³/h

DESCRIPTION OF PCO™ TECHNOLOGY

The **PCO™ technology** of FC UNIT modules take advantage of the combined action of rays of a **special UV lamp** with a catalyst structure made of a honeycomb metal alloy, basically composed of **TiO_2 (titanium dioxide and other 3 noble metals** in lower quantity.
The FC UNIT modules, hit by airflow, give rise to a photochemical reaction that produce hydroxyl radicals (▪OH) and hydrogen peroxide (H_2O_2) in small quantities – below 0,02 PPM. H_2O_2 e ▪OH allow the sanitization of both the airflow and of the duct surfaces thanks to the high decomposition efficacy of pathogens.
Effective against bacteria, viruses, mold, allergens, odors, organic and volatile compounds.

APPLICATION AREAS

- ► RESIDENZIAL
- ► TERTIARY

INSTALLATION METHODS

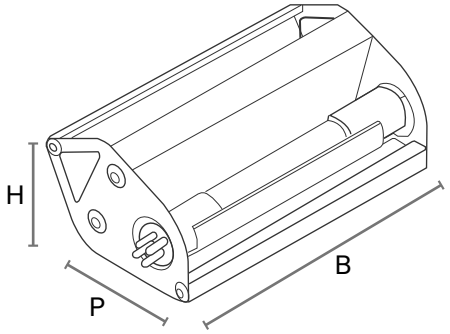
- ► On board of FANCOIL unit
- ► In HVAC systems
- ► In air delivery or connection plenum

• *UV lamp replacement every two years*

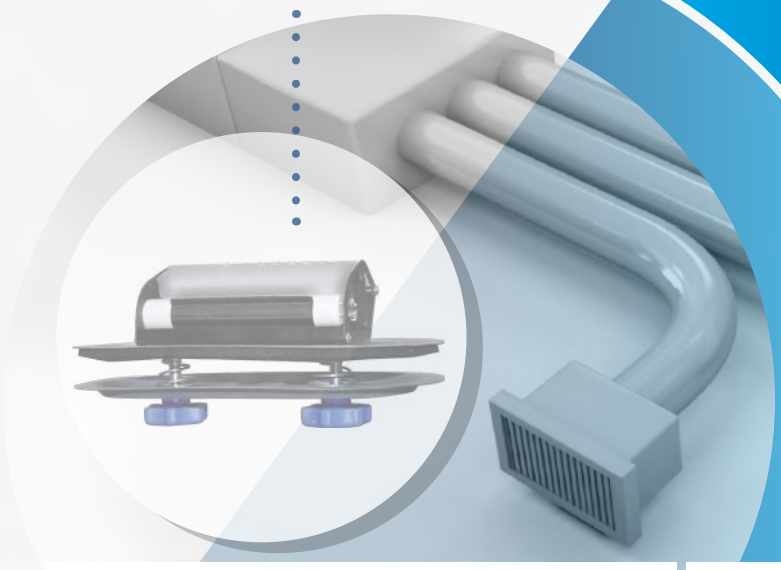
TEST COVID-19 CERTIFIED

TECHNICAL SPECIFICATIONS

Module dimensions	12,6 x 7,9 x 5 cm
Transformer dimension:	7,8 x 3,7 x 2,6 cm
Weight	0,45 Kg
Electrical characteristics	230 V - 50/60 Hz
Electrical current intensity	0,15 A
Max working temperature	60° C



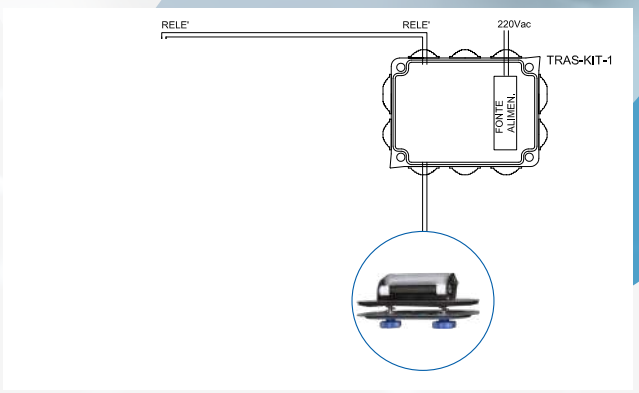
KIT **SANITIZATION**

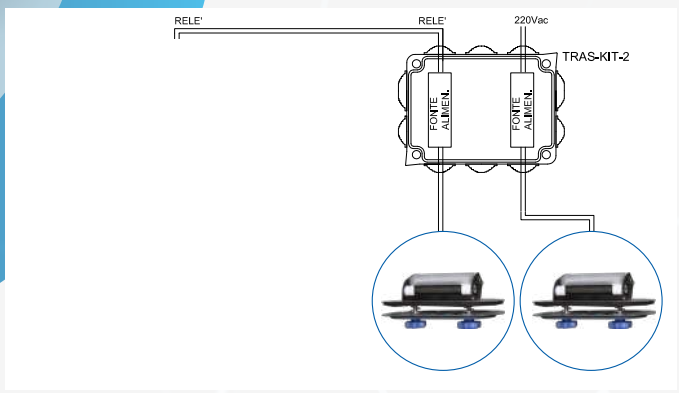


INSTALLED INSIDE
DELIVERY PLENUM
ALLOWS SANITIZATION
OF THE SYSTEM AND ENVIROMENTS

TEST COVID-19 CERTIFIED

FC UNIT





Ideal pre-wired kit for a simple and quick installation inside the air delivery plenum.
The kit is composed by a FC UNIT pre-assembled on a metal inspection hatch, that allows for a quick installation in plenums and in channels.
The pre-wired junction box allows a quick connection of the UV lamp and the power supply.
The pre-wired junction box is also equipped by a wire for the ON/OFF contact of the lamp.

SYSTEMS UP TO 7 KW

Cod. KIT-SANI-1*

Code	COMPONET	QUANTITY
DF09960	FC UNIT MODULE	1
BOTOLA	HATCH	1
TRASF-KIT-1	TRANSFORMER	1

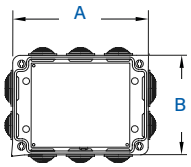
SYSTEMS FROM 7 UP TO 14 KW

COD. KIT-SANI-2*

Code	COMPONET	QUANTITY
DF09960	FC UNIT MODULE	2
BOTOLA	HATCH	2
TRASF-KIT-2	TRANSFORMER	1

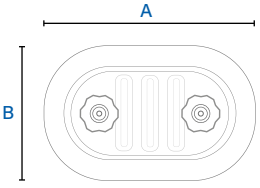
X2

CASE



A - 13cm
B - 13 cm
H - 6 cm

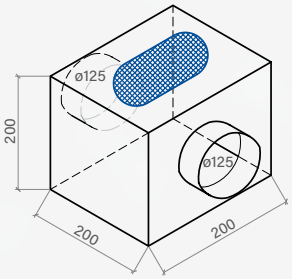
HATCH

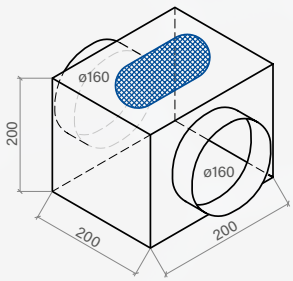


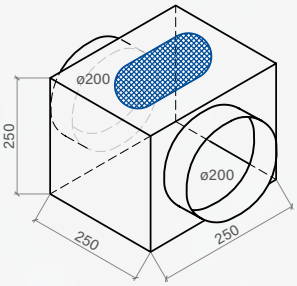
A -19,5 cm
B - 10 cm

KITS AND ACCESORIES

SANIVMCØ-FC



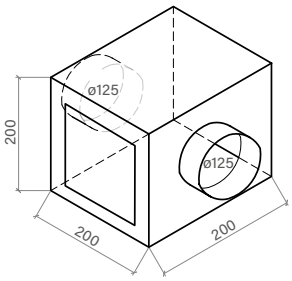


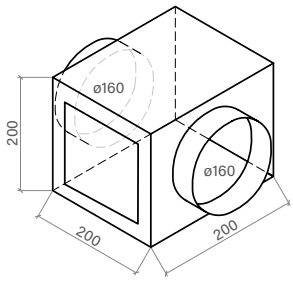


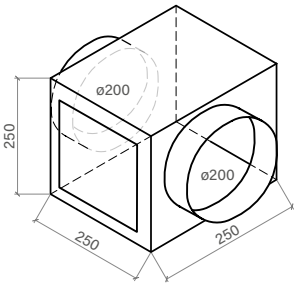
Active sanitation module that can be installed in a duct, ideal for residential environments or small offices.
PAL fitting equipped with two connections, an inspection hatch and an FC UNIT.

PRESSOSTATO DF
Pressure switch, optional accessory

SANIVMCØ-MC







Active sanitation module that can be installed in a duct, ideal for residential environments or small offices.
PAL fitting equipped with two connetions, an inspection hatch and a MICROPURE module.

PRESSOSTATO DF
Pressure switch, optional accessory

SELLA DF

Saddle for installing the Dust Free® modules on circular ducts.
From 250 up to 700 mm nominal diameter.

saddle with module plate

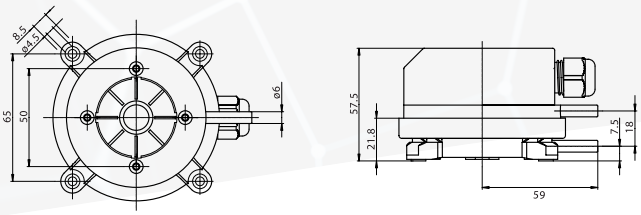
PRESSOSTATO DF

The differential pressure switch for air monitors: overpressures, depressions and pressures air differentials. The trigger pressure value can be set without a pressure gauge by means of the adjustment knob with graduated scale.

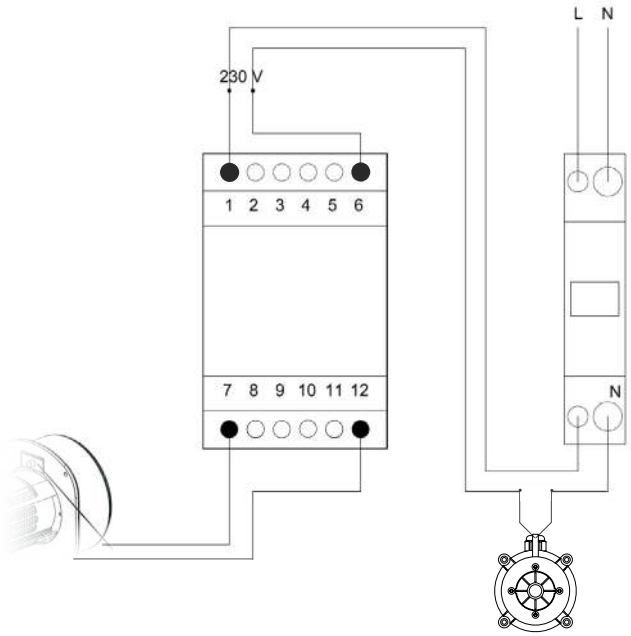
PRESSOSTATO DF allows the Dust Free® active sanitization devices to be switched on when the air passes, without the need to connect the devices to the AHU electrical panel.

TECHNICAL SPECIFICATIONS

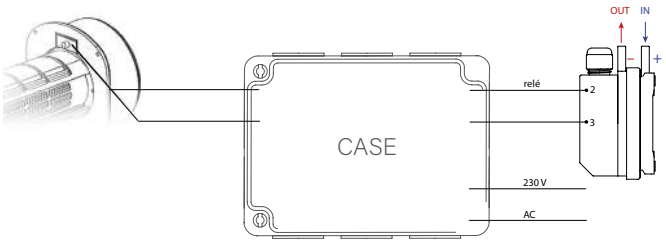
Medium	Air, other non-flammable gases
Measuring range	20...300 Pa (0,2...3 mbar)
Accuracy	±15%
Contact rating	Max 1,0 (0,4) A / 250 V AC
Maximum operating pressure	10 kPa (100 mbar)
Working range	0...95% RH, non-condensing
Working temperature	-20...+85°C



Wiring diagram for duct devices



Wiring diagram for SANIVMC



STAND ALONE SYSTEMS

FC-CASE

visible solution

TEST COVID-19 CERTIFIED

built-in solution

representative image
panel not included

10 m TES102 + 2 fittings + 2 deliv/ret valves + 4 hose clamps

double delivery solution

representative image
panel not included

1 braga Y 45° + 1 delivery valve + 2 hose clamps

solution with delivery on panel

representative image
panel not included

10 m TES102 + 2 fittings + 2 deliv/ret valves + 4 hose clamps

FC-CASE

FC-CASE
FC-IPG-CASE

Maximum Airflow
200 m³/h

SISTEMA DI SANIFICAZIONE ATTIVA 2 in 1

PLUG-IN product suitable for surface installation or build in ceilings. The FC-CASE is an air purification system made of stainless steel, it is equipped with an ON / OFF button and a speed regulator on the board.
The ventilation system has been designed to be silent even having a suitable prevalence in order to canalize the air delivery and intake of the device into the flexible tube. Moreover, the filter installed on the intake valve, being washable, allow an easy maintenance without replacing frequently the filters.
The **PCO™ technology** of FC-CASE modules take advantage of the combined action of rays of a **special UV lamp** with a catalyst structure made of a honeycomb metal alloy, basically composed of **TiO2 (titanium dioxide and other 3 noble metals** in lower quantity.
The FC-CASE modules, hit by airflow, give rise to a photochemical reaction that produce hydroxyl radicals (▪OH) and hydrogen peroxide (H_2O_2) in small quantities – below 0,02 PPM. H_2O_2 e ▪OH allow the sanitization of both the airflow and of the duct surfaces thanks to the high decomposition efficacy of pathogens.
The FC-CASE modules are also equipped with two devices with **bipolar ionization technology** that give make these modules more performant on odors reduction and active also on the ultrafine particulates, if inhaled they are the most dangerous.
Effective against bacteria, viruses, molds, allergens, odor, organic and volatile compounds, ultrafine particulates.

INSTALLATION METHODS

► On wall / In ceiling (build in o superficial)

- *UV lamp replacement every two years*

AVAILABLE IN TWO VERSIONS

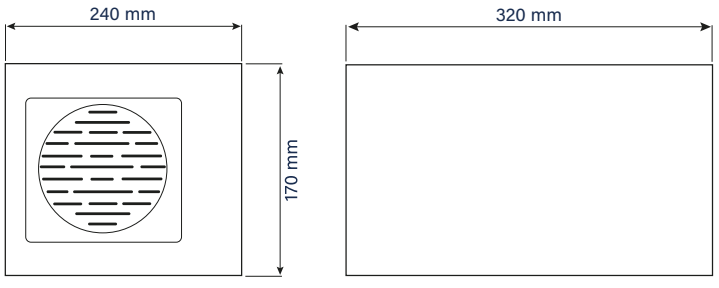
FC-CASE: Technology PCO™
FC-IPG-CASE: Technology PCO™ + Bipolar ionization

SECTORS OF USE

► HOTELS
► HOSPITAL ROOMS
► DENTAL / DOCTOR OFFICES
► OFFICES
► TOILET
► SHOPS / PHARMACY

TECHNICAL SPECIFICATIONS

Supply:	230-1-50 V-ph-Hz
Supply UV lamp V50/60 Hz:	10 W
Engine connection:	Mono
Airflow:	200 m³/h
Sound power Lp:	38 dB(A)
Fan power consumption:	16 W
Fan current absorbition:	0,100 A
Weight:	8 Kg



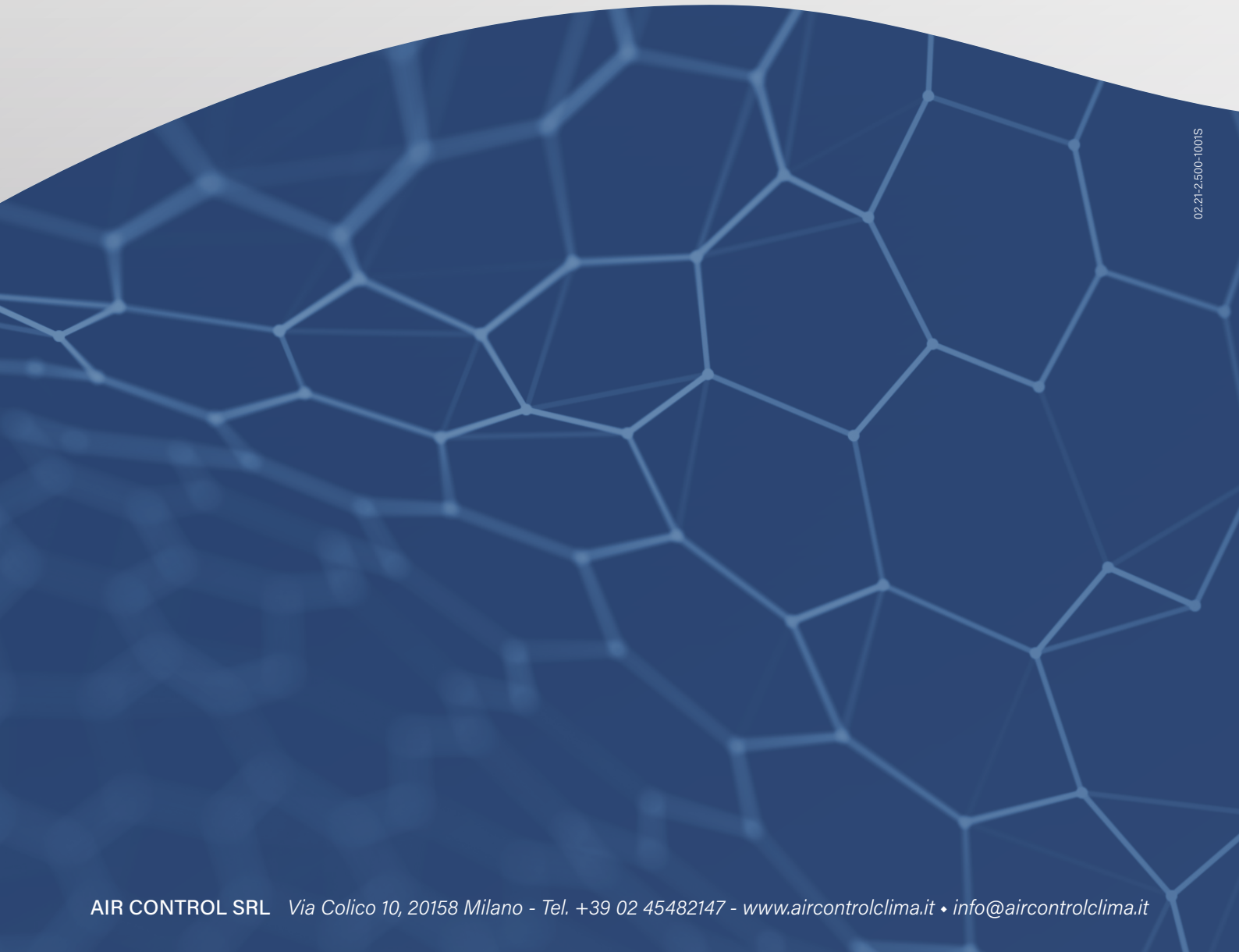
- Cover made in INOX steel AISI 304

Our quality of life strictly depends on air quality we breathe

"We worry about the 3 kilos of food and drinks we ingest every day and paradoxically ignore those 18 kilos which make up the amount of air (15.000 litres) we breathe within the same frame"

air control

Tecnologie per il controllo dell'aria



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