

SURFACE disinfection

AIR quality



Air quality Surface disinfection For healthcare environments



— Contamination control, healthcare safety

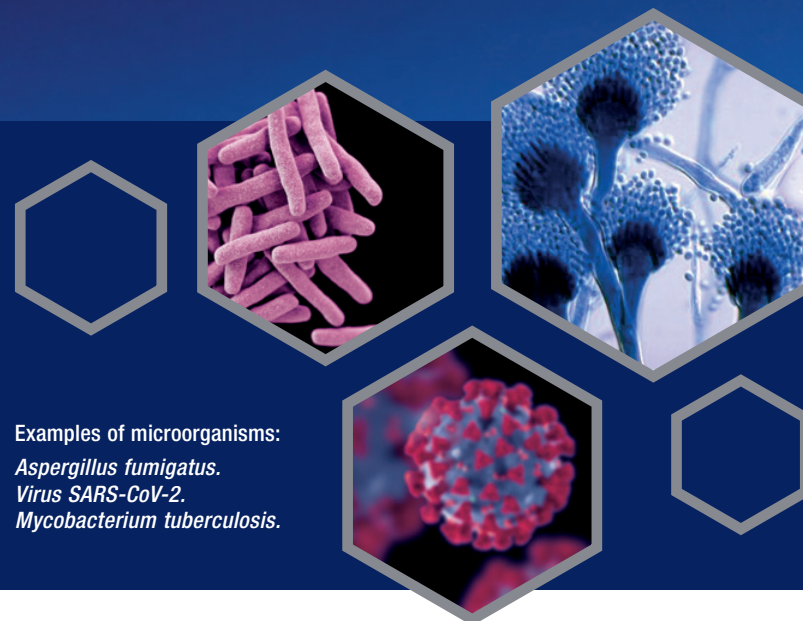


We provide our customers with expertise, audit and smart solutions to control contamination in hospitals and **critical care areas**.



Our products and services help hospital customers...

- **Protect** immuno-compromised patients within air quality in high risk areas.
- **Isolate** infected patients to avoid any cross-contamination and medical staff infection.
- **Support ward refurbishment** with mobile and quick solutions (no extra-work required).
- **Retrofit or reinforce** existing air treatment facility.
- **Control and monitor** CO₂ concentration, airborne particles quantity, relative humidity and temperature.
- **Decontaminate** patients rooms, labs, clean rooms with our airborne room disinfection automated process validated against EN 17 272: 2020.



Examples of microorganisms:
Aspergillus fumigatus.
Virus SARS-CoV-2.
Mycobacterium tuberculosis.

A complete range of products to manage and monitor environmental contamination



The airinspace® portfolio addresses each situation providing a specific and dedicated solutions from particles removal to complete patient isolation and room disinfection with a validated and efficient process.

The reference in air treatment and surface disinfection

Derived from Space research program, our products have been the subject of numerous peer reviewed scientific publications*. Our R&D team has over 20 years of experience and our application engineers take special care to ensure peak performances and patient's comfort through ergonomic design. We supply 50 countries worldwide through our own direct sales force and a first class distributors with highly trained sales staff capable to provide full service to our final customers. Technical service is always on hand to help install products and train end users. In addition to perform maintenance, they also manage trouble shooting worldwide.

*Bibliography available on request.

An expert and trustworthy partner

Audit: our team comes from a background of pharmaceutical and clean rooms industries. They are experts in air treatment and can help you make complete analysis of existing installations. They provide you with efficient, cost effective and simple solutions.

Installation: once machines are delivered, a technical team is available to support technical and medical staff with product installation and startup assistance. We provide Functional Qualification (QF) on site and fully train end users.

Maintenance and after sales service: maintenance is easy and cost effective. We offer several options and our contracts are valid during the whole life-cycle of the products worldwide.

Warranty: airinspace® offers 1 year warranty on parts and labor worldwide (modules and filters not included).

Service and Quality: we are dedicated to customer satisfaction. Our quality system is compliant with ISO 9001 and ISO 13485 standards. As we conceive and develop our products in France, our products are labelled " Origine France Garantie ".

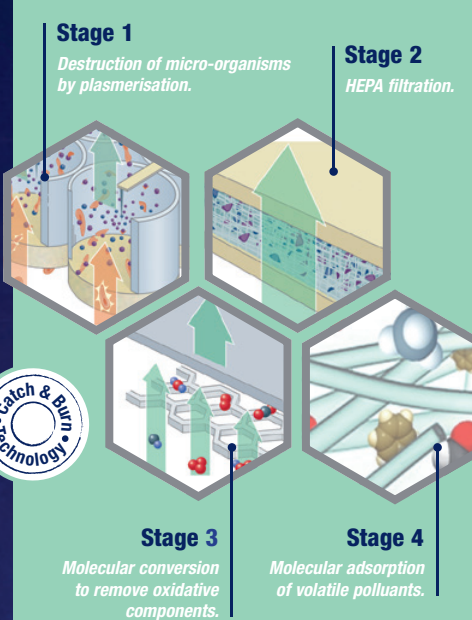


AIR QUALITY

a large range of air treatment solutions

Microbiological destruction: PLASMAIR® range

The reference products in the most critical wards. The **PLASMAIR®** Mobile Air Decontamination Units consist of HEPA-MD reactor. The reactor kills microorganisms (bacteria, virus, fungi and spores), removes particles, VOCs and reduces ozone level in the environment.



Protected environments

BIOCAIR® and **IMMUNAIR®** are used in combination with **PLASMAIR®** or **HEPA** units and are easy to install.

BIOCAIR®

Modular clean room for Airborne Infectious Isolation Room (AIIR) or protective equipment, office based surgery, drug compounding labs, IVF labs applications.

- Performance: ISO5 to ISO8.
- Tailored size and space to suit any room layout in positive or negative pressure.
- No structural work.
- Automatic sliding door with controlled leak rate.
- Easy to install in any kind of rooms.
- Cleanroom walls.



IMMUNAIR®

Deployable plenum to protect immunocompromised patients in BMT transplant, oncology and immunology units. Fixed (FDP) or Mobile (MDP).

- Performance: ISO 5 under the unidirectional airflow system.
- Easy access for medical staff.
- Light servicing.
- Comfortable patient area.
- Optional flat screen TV.



Destruction of micro organisms

The reference in hematology, bone marrow transplant unit, and at-risk unit.

PLASMAIR®

Guardian

High capacity, effective, quiet.

- Quick removal of contaminants.
- Touch screen to set-up and monitor the unit.
- Easy to use.

Performance: ISO 6 to ISO 7

Flow rate: up to 2,500 m³/h



Large and intuitive touch screen. Automatic day/night mode shift.

PLASMAIR®

Sentinel

Quiet and compact.

- For room volume up to 60 m³.
- Touch screen.
- Easy to move.

Performance: ISO 7

Flow rate: up to 1,200 m³/h



Air flow pattern.

PLASMAIR®

C2010

Zero footprint.

- Air decontamination ceiling system.
- Remote control.
- Light servicing.



Performance: ISO 7

Flow rate: up to 800 m³/h

High Efficiency Filtration: HEPA range

HEPA mobile air filtration units contain HEPA H14 filters with filtration efficiency is more than 99.995% for 0.1 µm particles according to EN 1822 standard.

Applications:

- Moderate risk areas: corridors, Anteroom, patients waiting rooms, medical practice.
- IVF Labs.
- Protection of medical wards during construction works.
- Meeting rooms, break rooms.

HEPA

Guardian

High capacity and fast particle removal.

- HEPA Filtration and Activated carbon.
- Excellent mobility.

Performance: ISO 7

Flow rate: up to 2,500 m³/h



HEPA

Sentinel

High efficiency and quiet.

- Small footprint.
- Easy to move.

Performance: ISO 7

Flow rate: up to 1,400 m³/h



HEPA³

Air

Compact and high capacity.

- Small footprint.
- Efficacy: 4 filtres H14.

Performance: ISO 7

Flow rate: up to 2,000 m³/h



HEPA

Bulle

The smaller HEPA unit.

- For small areas.
- Can be suspended from the ceiling.

Performance: ISO 7

Flow rate: up to 1,000 m³/h



Adsorption of airborne chemical pollutants and toxic compounds.

eCHEM is the range of mobile units range of mobile chemical air decontamination units. Carbon and composite filters retain both oxidising and acidic molecules, VOC and formaldehyde.

They are used in a large number of applications such as endoscopy, after automated surface disinfection process, in IVF or anatomopathology laboratories or, more generally, in the presence of solvents.

eCHEM

Cubair

Small footprint

- 5 specific carbon filters.
- Air flow at 360°.
- Silent.

Flow rate: up to 2,000 m³/h



eCHEM

Sentinel

Quiet

- 3 activated carbon filters with high adsorption performances.
- Particle retention.
- Small footprint.

Flow rate: Up to 1,400 m³/h



Measurement and monitoring of air quality

Monitoring the concentration of CO₂ and fine particles or identifying the temperature or relative humidity of the air are essential to control the environment. The **Wall-i** range meets all these requirements.

Wall-i

ISO

- Fine particles counter: displays Particle cleanliness ISO class or particulate concentration per channel.

Wall-i

Watch

- Temperature and relative humidity displays.
- Modbus connection to retrieve data.
- Optional fine particles counter.

Wall-i

CO₂

- NDIR sensor, autocalibration.
- Colour screen.

Wall-i

Pilot

- Monitor **airinspace®** Mobile Air Decontamination Units.
- Displays temperature and relative humidity.
- Modbus connection to retrieve data.
- Optional fine particle counter.

OCTOPUS

- Smart diagnostic tool for air quality: (ISO cleanliness class, concentration particles per size, PM1, PM2.5, PM10, CO₂, VOC, formaldehyde, temperature, relative humidity).
- 2 years of data backup.

AIRBORNE ROOM DISINFECTION

by automated process

The airinspace® process HPV^{PA}

Multi range biocide using hydrogen peroxide (H₂O₂) boosted by peracetic acid (PAA).

- Exceed all requirements of the most stringent standard EN 17 272.
- Reduction of contamination on any type of horizontal and vertical surfaces.
- Outbreak management.
- Disinfection of room previously occupied by patients with multidrug resistant and highly contagious microorganisms.
- Terminal disinfection.

RHEA One

Small, light and ergonomic.

- 9 available protocols.
- Easy to move.
- Very robust.
- Cost effective.



Direction of dry fogging flow.

Control panel.

RHEA

Satellite Compact

Touch pad to monitor remote RHEA One.

- Hardwired connection to RHEA One.
- Emergency stop button.

RHEA

Satellite Wi-Fi

Touch pad to monitor remote RHEA One.

- Wireless connection.
- Can control up to 10 RHEA One.

X-CID

Mixture of peracetic acid and hydrogen peroxide ready to use at room temperature.

- No additional adjuvants (Ag, formaldehydes essential oils...).
- No solid residue after treatment.



All in one Trolley

- The trolley carries:
 - 1 RHEA One,
 - 1 eCHEM Cubair,
 - 1 RHEA Satellite Compact or RHEA Satellite Wi-Fi.
- Store area for X-CID bottle.
- Easy to move by one single operator.



A question? a request?

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