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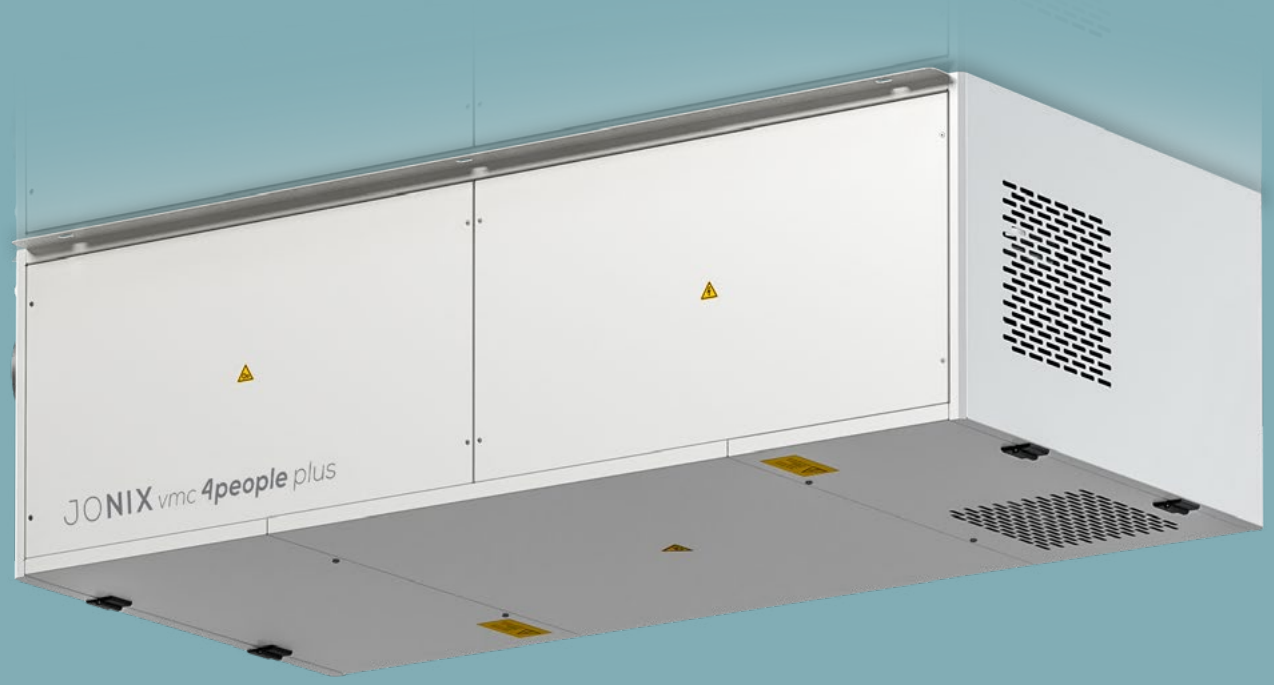
LEED BREEAM WELL HK Beam Estidama

vmc **4people** BASIC
vmc **4people** PLUS

JONIX
pure living

JONIX vmc *4people* NON THERMAL PLASMA TECHNOLOGY

CONTROLLED MECHANICAL VENTILATION UNIT
WITH HEAT RECOVERY AND SANITISATION FOR CEILING INSTALLATION



*) We must remind you that the reductions in bacteria-moulds-VOC-viruses may vary from those indicated based on the characteristics of the environment and its use (size, presence density, ventilation, basic hygienic conditions). The virucidal activity was tested using the SARS - CoV-2 (Covid-19) strain. All experiments were conducted in a Biosafety Level 3 Laboratory (BSL3). The use of Jonix devices DOES NOT exclude compliance with the provisions for the prevention and containment of the pandemic.

Effectiveness tested on:

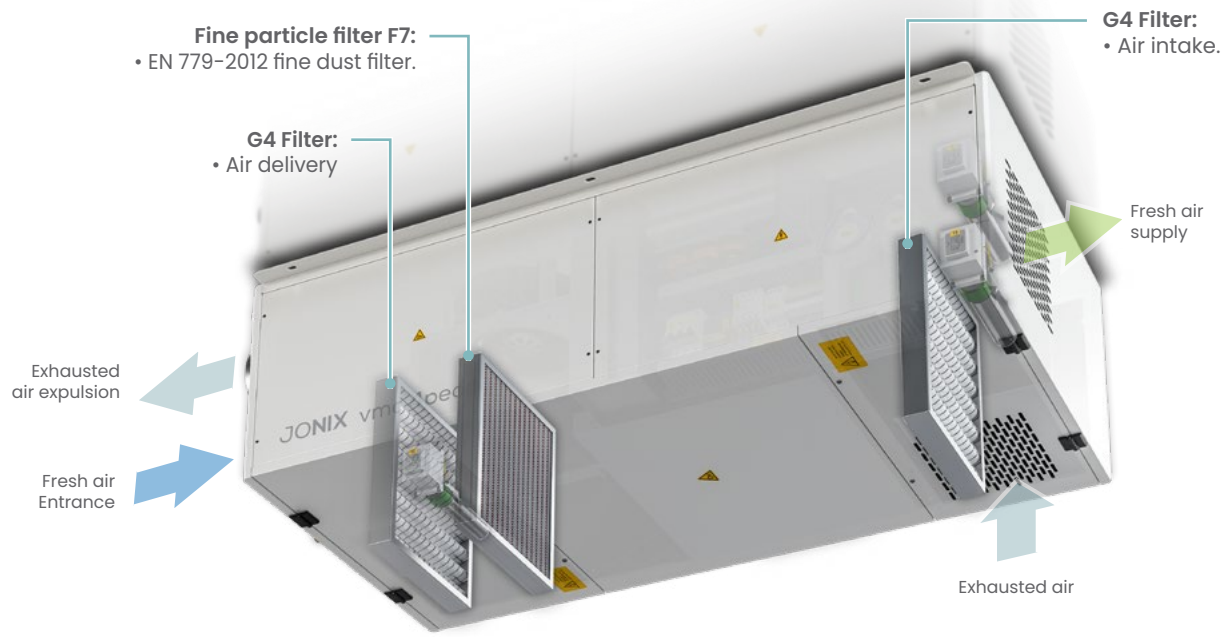
covid-19 V.O.C. odours bacteria mould virus multidrug-resistant bacteria

JONIX

Tested against Covid-19
by the University of Padua
Bacteria, Moulds,
VOCs and Viruses
up to
-99,9% *
jonixair.com

JONIX vmc 4people LINE

Bacterial and chemical pollutants develop inside air distribution systems and are transported by the airflow to the rooms. Jonix **vmc 4people** with cold plasma technology eliminates bacteria, viruses, moulds, chemical pollutants, VOC and odours ensuring bacterial decontamination of the ducts' internal surfaces as well as of the air that flows through.
Jonix **vmc 4people** is a controlled mechanical ventilation system for the continuous exchange of ambient air without the need to open windows which, thanks to the integration with cold plasma technology, eliminates bacteria, moulds, viruses, chemical pollutants, VOCs and odours, guaranteeing bacterial decontamination of the internal surfaces of ducts and of the air in rooms. The filters retain dust and allergens from the external air, the special heat recovery unit allows considerable energy savings and the high efficiency fans guarantee low energy consumption. Management via microprocessor with remote control optimises operation in all environmental conditions.
Jonix *vmc* ***4people*** *basic* and Jonix *vmc* ***4people*** *plus* are the only devices on the market that combine filtration with a patented system for the active sanitisation of filters and internal surfaces of the vmc itself. The Jonix **vmc 4people** device, in the plus version, combines traditional filtration with the use of NTP technology to sanitise the outgoing air with a sanitising effect even on surfaces in rooms and on the room contents.



NTP TECHNOLOGY (NON THERMAL-PLASMA)

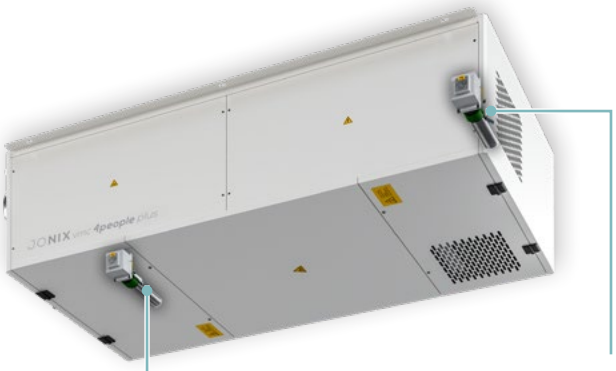
With the word plasma we mean a blend of ionized gases composed by a large quantity of energized particles, such as ions and electrons, free radicals, ROS, molecules as well as neutral atoms. The ionization of an atom occurs when an electron acquires enough energy to overcome the attractive forces of the atom nucleus. When this result is obtained with processes generating a plasma in which the temperature of the ions and neutral atoms is significantly lower than the temperature of electrons, we are talking about cold plasma and Non-Thermal Plasma (NTP).
An important feature of the low-temperature plasma is the presence of strongly reactive high-energy electrons, that generate a number of chemical and physical processes such as oxidation, over-energizing of atoms and molecules, the production of highly reactive species.
A plasma can be artificially generated supplying a gas with a sufficiently high energy, that means giving a gas energy so as to reorganize the electronic structure of the species (atoms, molecules) and produce over-energized species and ions. One of the most common ways of artificially creating and maintaining a plasma is through a gas electric discharge. **NTP** Jonix technology makes use of the so called non-thermic discharges with a dielectric barrier method. The potentialities of ionization and the density of charged species generated from the plasma with electrical barrier discharge (DBD) are higher compared to the ones present in the non-thermic plasma generated by other systems.

JONIX *vmc* ***4people*** *basic*
AIR PURIFICATION DEVICE



Patented active sanitizing system of internal components with advanced cold plasma technology

JONIX *vmc* ***4people*** *plus*
AIR PURIFICATION
AND SANITISATION DEVICE



Sanitization system of the air out with advanced cold plasma technology

Patented active sanitizing system of internal components with advanced cold plasma technology

JONIX *vmc* ***4people*** *basic*
JONIX *vmc* ***4people*** *plus*

The devices of Jonix **vmc 4people** line (basic and plus versions) are controlled mechanical ventilation units, with heat recovery and sanitisation with cold plasma technology, for the purification and decontamination of the air and the surfaces of the room in which they are installed.
Designed to be easily installed, where it is necessary to prevent or eliminate the formation of bacterial colonies on the surfaces of the ducts or of airborne ones.
Consistent with an integrated management of the facilities, control and functions of the device can be managed remotely.

The activity of air purification and sanitisation of the internal components of the Jonix **vmc 4people** device is compatible with the presence of persons.
No chemicals are used and no harmful residual substances are generated.



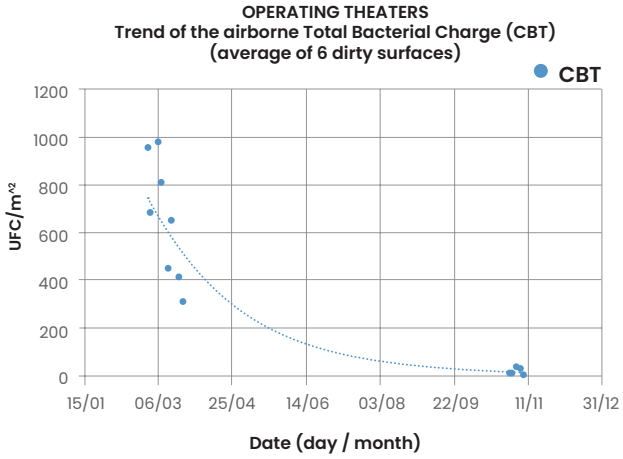
Free Cooling Mode

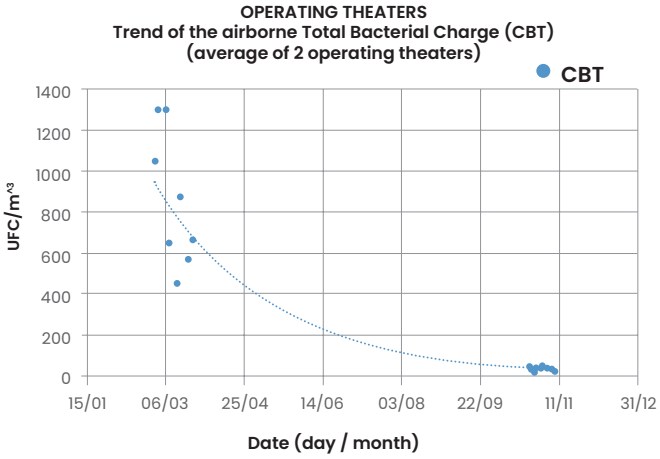


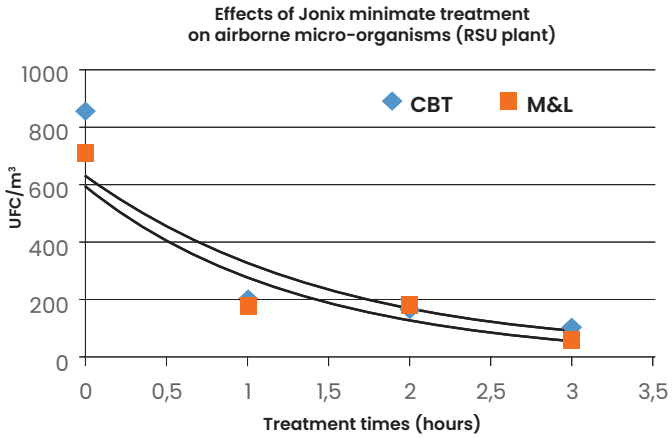
Heat Recovery Mode

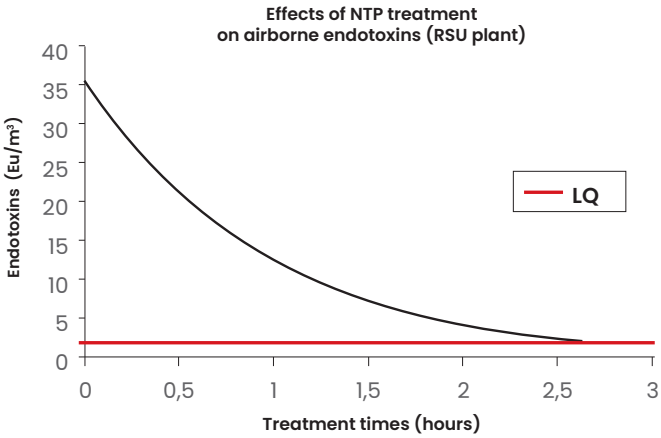
EFFICIENCY

The bio acid and neutralization activity of polluting substances occurs quickly and continuously.
The continuous functioning of the device blocks the spreading of bio hazardous agents generated on a continuous basis during the activities.
Jonix **vmc 4people** with NTP technology is efficient on: gram + and – bacteria, yeast and mould, virus, bacterial endotoxines, VOC (volatile organic compound), odours.
The reactive species generated by NTP technology, including reactive oxygen species, have a high oxidising power and act on various components. They react with the phospholipids and proteins of the cell membrane of microorganisms, opening a passage for the entry of oxidants into the cell. Here the molecules oxidise the proteins and nucleic acids of the DNA, breaking it into small fragments, resulting in death of the microorganism.
Reactive species also react with the pollutants and odours present in the air and oxidise them in various stages until they are decomposed.











APPLICATION SECTORS *

The Jonix **vmc 4people** device is suitable for environments in which it is necessary to reduce air contamination **in places with a high concentration of people and in transit areas**, but, due to its compact shape and its sanitising action, it can be used in numerous other smaller environments such as **offices, medical, dental and veterinary practices, classrooms, professional kitchens, canteens, warehouses**, etc.

*) We must remind you that the reductions in bacteria-moulds-VOC-viruses may vary from those indicated based on the characteristics of the environment and its use (size, presence density, ventilation, basic hygienic conditions). The virucidal activity was tested using the SARS - CoV-2 (Covid-19) strain. All experiments were conducted in a Biosafety Level 3 Laboratory (BSL3).
The use of Jonix devices DOES NOT exclude compliance with the provisions for the prevention and containment of the pandemic.

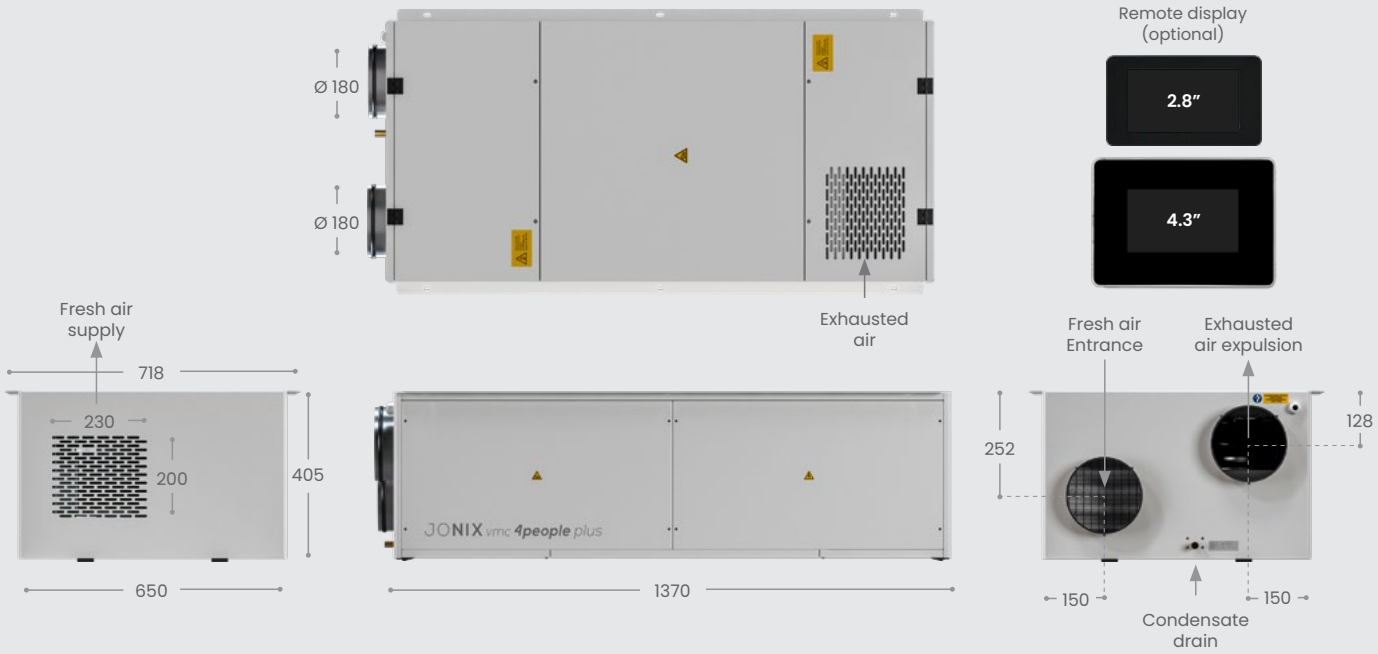
EXCLUSIVE NATURAL SANITISATION SYSTEM WITHOUT THE USE OF CHEMICALS

The Jonix **vmc 4people** device:

- Is versatile. Designed for **ceiling installation** but, on request, also created for **vertical positioning**.
- Is made from **pre-painted sheet metal**, RAL 9010 white colour.
- Promotes healthy ventilation inside rooms, allowing the correct air exchange without the need to open windows, thus maintaining optimal conditions.
- Allows significant energy savings thanks to the **heat recovery unit**.
- **Constantly filters the external renewal air**, preventing the entry of dust and pollen.
- Constantly reduces and eliminates the bacterial loads present in the air and on the surfaces of indoor environments.
- Constantly decomposes volatile organic compounds (VOCs).

ECOLOGICAL AND COMPATIBLE WITH THE PRESENCE OF PEOPLE

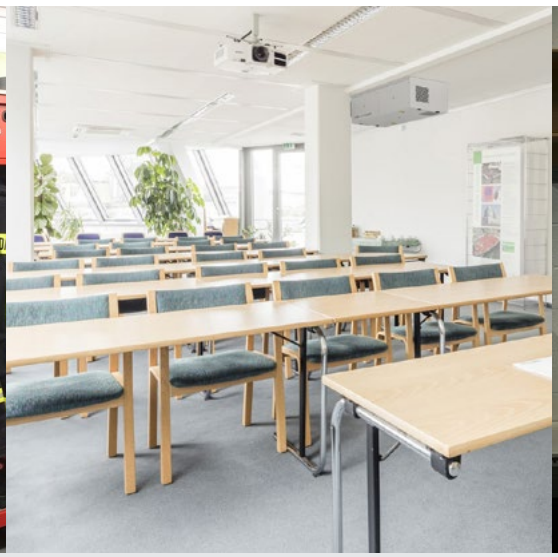
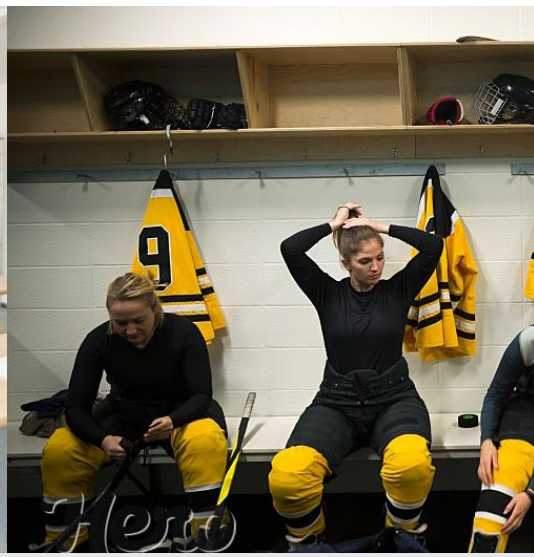
Jonix **vmc 4people** uses no chemicals and generates no residual substances.
It sanitises the air and surfaces continuously, without side effects on materials, people, and animals.
It eliminates odours, thus improving environmental comfort.
It guarantees healthy air for the staff as required by worker safety regulations.



covid-19 V.O.C. odours bacteria mould virus multidrug-resistant bacteria

TECHNICAL FEATURES JONIX vmc 4people

Models	vmc **4people** basic	vmc **4people** plus
Jonix **vmc 4people** with cold-plasma technology eliminates bacteria, moulds, viruses, chemical pollutants, VOCs and odours ensuring bacterial decontamination of the internal surfaces of the ducts and the air in the environment.		
Non Thermal Plasma (NTP) Generators	1 standard ambient NTP generator	1 ambient NTP generator or 2 ambient NTP generators on request
Generators replacement	Every 14000 hours	
Generators Maintenance	Every 7000 hours	
Efficiency (%)	88	
Type of recuperator	RS in HPS	
Air inlet pre-filter renewal	G4	
Air inlet filtration type renewal	F7 – Fine dust filter EN 779-201	
Type of filtration exhausted air	G4	
Fan	no. 2 EC, high efficiency plug fans, with integrated control	
Min / max flow ventilation (m^3/h)	300 - 660	
Nominal air flow (m^3/h)	500	
Dimensions (mm)	1370 x 650 x 450	
Weight (kg)	71	73
Power supply	230 V /1 ~/ 50-60 Hz	
Max power absorption (W)	299	299
Maximum absorbed current (A)	2,5	
Degree of Protection	IP40	
Supply and suction grilles	Optional	Optional
Electric resistance for winter integration	Optional	Optional
Remote control panel kit (4.3")	Optional	Optional

Hallmark for health and living comfort
in confined spaces
(UNI EN 16000- UNI EN14 412).

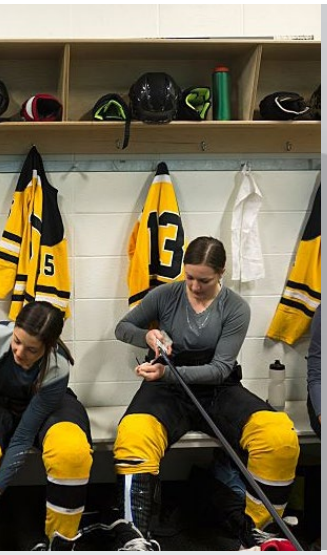
Validated product
biosafe.it

Reference standards
NATIONAL LAWS AND STANDARDS
Valid for the following categories: Civil, Industrial, and Healthcare sectors
Italian Legislative Decree 81/2008 Consolidated Law on Health and Safety in the Workplace of 10th April 2008 (published in the Ordinary Supplement No. 108 of the Offical Gazette No. 101 of 30th April 20081; Legislative Decree No. 81 was published on 9th April 2008) • Guidelines issued by the Italian Presidency of the Council of Ministers (Permanent Conference for relations between the State and the Regions), Center for disease control and prevention, General Directorate of Health prevention, Dept. II entitled: "Outline of guidelines for the prevention of indoor risk factors for allergies and asthma in schools" of 18th November 2010 • Guidelines issued by the Italian Presidency of the Council of Ministers (Permanent Conference for relations between the State and the Regions), entitled (Outline of Guidelines for the definition of technical protocols for predictive maintenance on air conditioning systems" of 5th October 2006. • Guidelines issued by the Italian Presidency of the Council of Ministers (Permanent Conference for relations between the State and the Regions), "Operating procedure for the appraisal and management of risks connected to the sanitation of air treatment systems" of 7th February 2013 • Guidelines for preventing and controlling legionellosis O. G. No. 103, of 5th May 2000 (Ministry of Health - Permanent Conference for relations between the State, the Regions and the Independent Provinces of Trento and Bolzano) • Guidelines indicating recommendations on legionellosis for managers of tourist and spa facilities of 13th January 2005 (Permanent Conference for relations between the State, the Regions and the independent provinces of Trento and Bolzano) • Guidelines for preventing and controlling legionellosis of 7th May 2015 (Ministry of Health - Permanent Conference for relations between the State, the Regions and the independent Provinces of Trento and Bolzano) • Guidelines issued by the Italian Presidency of the Council of Ministers (Permanent Conference for Relations between the State and the Regions) entitled "Guidelines for the protection and the promotion of health in confined environments and for the prevention and control of legionellosis" of 27th September 2001.

REGIONAL LAWS AND STANDARDS
Valid for the following categories: Civil, Industrial, and Healthcare sectors
Region: Liguria, Law No. 24 of 2nd July 2002 • Region: Puglia, Law No. 45 of 23rd December 2008 "Health provisions." • Region: Emilia Romagna -resolution of the Regional Council No. 1115 of 21st July 2008 "Regional guidelines for monitoring and controlling legionellosis". • Region: Molise – Law No. 15 of 13th July 2011 "Regulations for the prevention of the spreading of infectious diseases". • Guidelines for the prevention and control of legionellosis in Lombardy of 28/02/2005, Directorate-General for Health Decree No. 2907.

Valid for the following categories: Healthcare sector
Regional law of Lombardy No. 33 of 30th December 2009 - New Regional Consolidated laws on health and Implementing Decree No. 1751 dated 24/02/2009 of the Directorate-General for Health of Lombardy.

MADE IN ITALY
Designed and created by expert technicians specialized on air purification.







covid-19


V.O.C.


odours


bacteria


mould


virus


multidrug-resistant bacteria

jonixair.com

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JX65GR0019
Rev. 03/22