

# JONIX

pure living

## JONIX cube NON THERMAL PLASMA TECHNOLOGY

MOBILE DEVICE FOR PURIFYING  
AND SANITISING INDOOR AIR  
FOR PROFESSIONAL ENVIRONMENTS



JONIX

Tested against Covid-19  
by the University of Padua  
Bacteria, Moulds,  
VOCs and Viruses

up to  
**-99,9%\***  
jonixair.com

### Effectiveness tested on:



covid-19



V.O.C.



odours



bacteria



mould



virus



multidrug-resistant  
bacteria



\* 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.



covid-19



V.O.C.



odours



bacteria



mould



virus

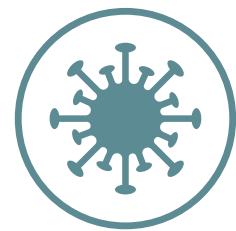


multiresistant  
bacteria

## AIR AND SURFACE SANITISING JONIX DEVICES



Jonix devices continuously sanitise indoor air and surfaces through the Jonix Non Thermal Plasma Technology, an advanced form of ionization, activated by special patented generators developed within the Jonix Lab, the scientific Jonix scientific department.



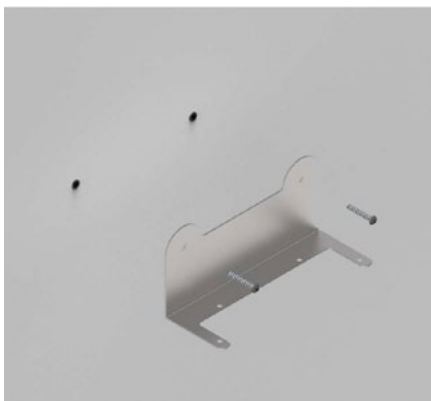
**Tested**  
**against SARS-CoV-2**  
University of Padua

## JONIX NON THERMAL PLASMA TECHNOLOGY

The Jonix Non-Thermal Plasma Technology sanitises environments by exploiting the properties of the air when it is activated by controlled energy, produced by special patented Jonix generators. The activated air is composed by "excited" molecules (Reactive Species) that attack and break down polluting particles (particulate matter, formaldehyde, volatile chemical compounds, odours), causing structural damage to micro-organisms (viruses, bacteria, moulds) and making them inactive.

The Jonix Non-Thermal Plasma Technology is the no-touch sanitisation system that can also be used in the presence of people, without contraindications.

The Jonix Non-Thermal Plasma Technology safeguards the health of the environment and does not interfere with the operation of machinery, air conditioning systems or technological devices.



## ASSEMBLY INSTRUCTIONS FOR BRACKET KIT

## EXCLUSIVE NATURAL SANITISING SYSTEM WITHOUT THE USE OF CHEMICALS

- **High efficiency:** reduction of bioburden and of volatile organic compounds up to 99% compared to the initial concentration.
- **Natural process:** it does not use or release residual chemicals: the air is activated naturally thanks to the Jonix patented generators.
- **Strong deodorizing action:** it quickly eliminates odors from the air.
- **Prevention and health protection:** it does not have contraindications, thanks to a patented technology, tested and used in the medical, food and pharmaceutical fields.



JONIX cube is the optimal solution to purify and sanitise indoor air and surfaces. Its continuous action creates perfect ionized air guaranteeing environmental comfort, helps to reduce work-related stress, aids respiratory functions, protects and promotes health in the workplace. Ready to use, JONIX cube is easy to maintain, performs quickly and in complete autonomy. JONIX cube is the ideal tool to constantly improve and maintain the hygiene of the air and surfaces, preventing problems of the respiratory system and airborne diseases, both in the home and in those environments with high attendance and density such as pharmacies, medical and veterinary surgeries, beauty centers and hairdressing salons, schools, gyms.

JONIX cube is simple and essential. Compact, light and silent, it quickly acts on the pollutants present in closed environments (viruses, bacteria, formaldehyde particles and VOCs).

### CONTROL PANEL

JONIX cube device is supplied fully cabled and only requires connection to a standard 230V/ 1~ / 50Hz socket.

The integrated controls are very intuitive and allow you to set its functions on 3 different timing levels:

Enabling level 1 : up to 50 m<sup>2</sup>.

Enabling level 2 : 51 ÷ 90 m<sup>2</sup>.

Enabling level 3 : Continuous sanitization cycle.\*

\*) Level 3 (maximum) is recommended as a night decontamination activities. Set level 3 at the end of the work activities, the device will remain active for 6 hours, at the end of which, it will automatically return to level 1.





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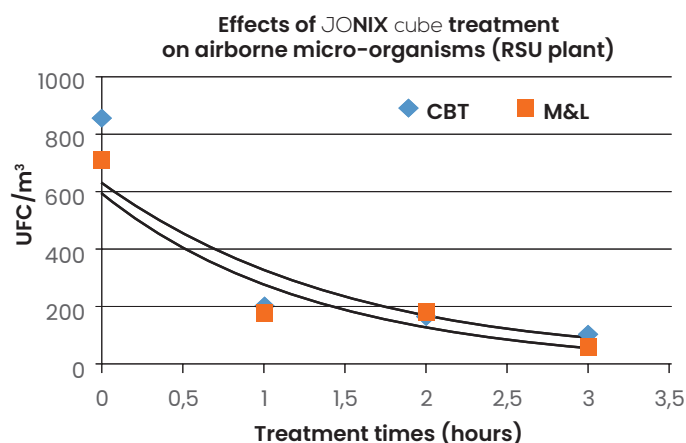
## EFFECTIVENESS

The biocidal and pollutant neutralisation activity takes place from 60 minutes from the moment it is switched on and reaches its best conditions within 24 hours, if correctly positioned and used, following the instructions of the manufacturer. The time varies according to the environmental characteristics, the pollutant load present, generated in the environment or coming from outside. The continuous operation of the device reduces the spread of contaminants that are also generated continuously during activities.

In micro-organisms (bacteria, moulds, yeasts, viruses): oxidising molecules react with and destroy the phospholipids and proteins of the micro-organism's cell membrane, opening a passageway for the oxidants to enter the cell. Here, the molecules oxidise the proteins and nucleic acids of the DNA, breaking it into small fragments and making it unusable. This, then, quickly leads to cell death.

The device has been tested and is effective on: + and - gram bacteria, moulds and yeasts, viruses, SARS CoV-2, bacterial endotoxins, VOCs (volatile organic compounds) and odours, in compliance with the current regulations.

JONIX cube eliminates odours of organic and chemical origin, reactive particles break the chemical bonds of odorous substances by decomposing them.



| VOC Volatile Organic Compounds | Abatement % with NTP JONIX |
|--------------------------------|----------------------------|
| Toluene                        | > 95                       |
| TBA (tribomanisolo)            | > 95                       |
| Ethyl acetates                 | > 95                       |
| Xylenes                        | > 95                       |
| Aromatics C9                   | > 95                       |
| Aliphatic compounds (C5-12)    | > 95                       |
| Aromatic compounds (C7-C10)    | > 95                       |
| Volatile Organic Compounds     | > 95                       |



Listeria monocytogenes



Staphylococcus aureus



Escherichia coli



Pseudomonas



Aspergillus brasiliensis



Salmonella



Legionella

## APPLICATION SECTORS \*

The JONIX cube device has been specifically designed to be used in places with a high concentration of people such as waiting rooms in the hairdressing and aesthetics sectors, but, due to its compact shape and its sanitising action, it can be used in many other environments with smaller sizes such as offices, medical, dental and veterinary offices, classrooms, etc. Operation level III, which can be selected from the front keypad, activates the continuous sanitising function for 6 hours, guaranteeing complete decontamination of air on surfaces.

\*) The presence of Jonix devices does not exclude the use of personal protective equipment and compliance with the safety regulations specified by the Ministry of Health. Reductions in bacteria-mould-VOCs-viruses may vary from those indicated depending on the characteristics of the environment and the use of the sanitising devices (size, density of presence, ventilation, basic hygiene conditions).

## ECOLOGICAL AND COMPATIBLE WITH THE PRESENCE OF PEOPLE

JONIX cube 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.



## PRODUCTS CONTROLLED AND VALIDATED FOR INDOOR AIR HEALTH



Department of Molecular Medicine – University of Padua. Technology tested on COVID-19. Technology tested on MULTIRESISTANT BACTERIA.



TÜV PROFICERT certifies the sincerity of the data and performances declared in scientific dossiers product catalogs.



Bio-Safe® Certification: a guarantee mark for health and well-being living within confined spaces. JONIX cube devices have been tested according to the patented Bio-Safe® protocol which has verified and certified their ability to reduce contaminants. These products have been tested, according to the Bio-Safe® protocol, through laboratory analysis with a test chamber (UNI EN 16000) capable of verifying their emission potential and through environmental surveys (UNI EN 14412).



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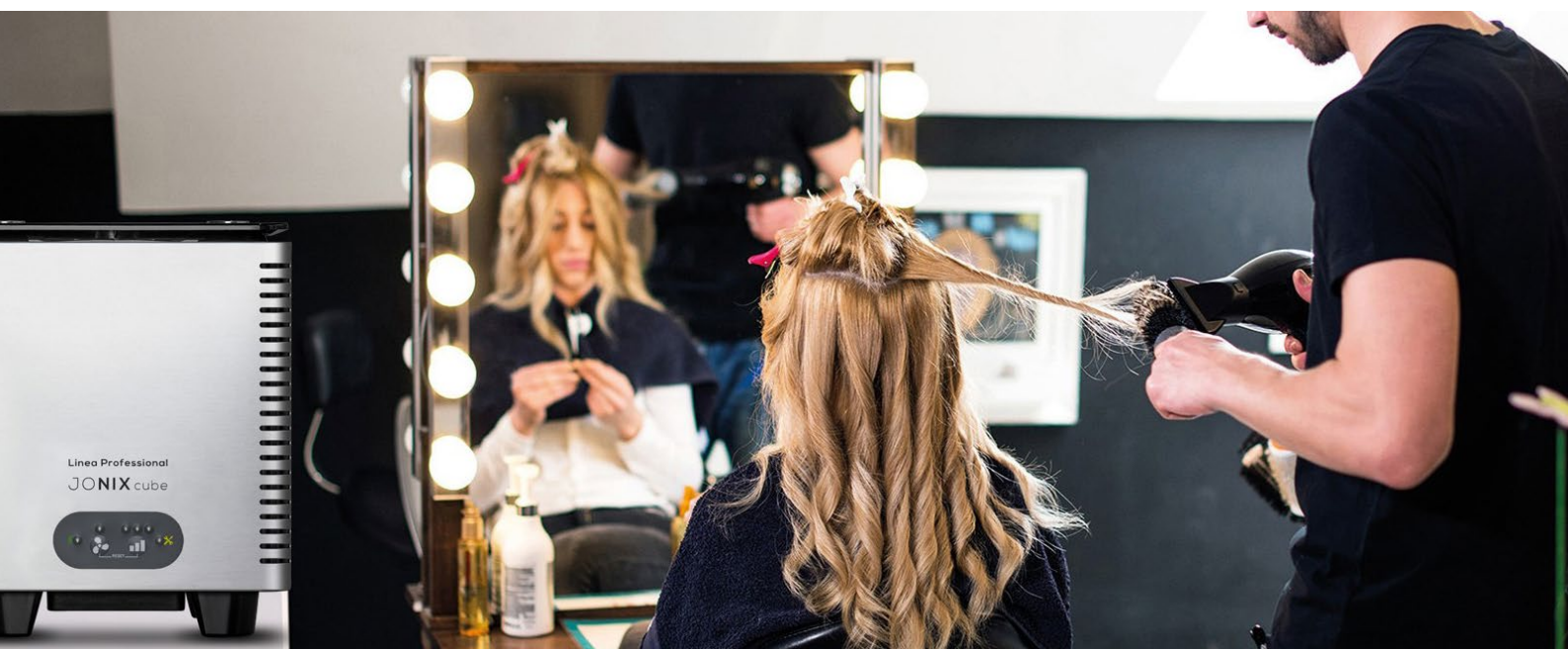
## TECHNICAL FEATURES

| MODEL                   | <b>cube Professional</b>   |
|-------------------------|--|
|                         |  |
| Code                    | 70BLACKCUBEPRO   |
| Plasma generators       | 2 x 175 mm type  |
| Generators replacement  | every 8740 of actual operation of generators                                       |
| Generators maintenance  | every 840 of actual operation of generators  |
| Dimensions              | 215 L x 215 P x 260 H mm   |
| Weight                  | 2.8 kg   |
| Type of power supply    | 230 V / 1~ / 50 Hz   |
| Consumption             | 10 W   |
| Electrical absorption   | 51 mA  |
| Sound pressure Ip. Leq. | 33 dB (A)  |
| Ventilation type        | 1 axial fan with fixed flow rate   |
| Filter                  | Dust-proof SAE 304 stainless steel   |
| Air flow rate           | 40 m <sup>3</sup> /h   |
| Environments            | from 110 to 240 m <sup>3</sup>   |
| Colour                  | SAE 304 stainless steel  |



### MADE IN ITALY

Designed and created by expert technicians specialized on air purification.



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



**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 Official Gazette No. 101 of 30th April 2008; 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.





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