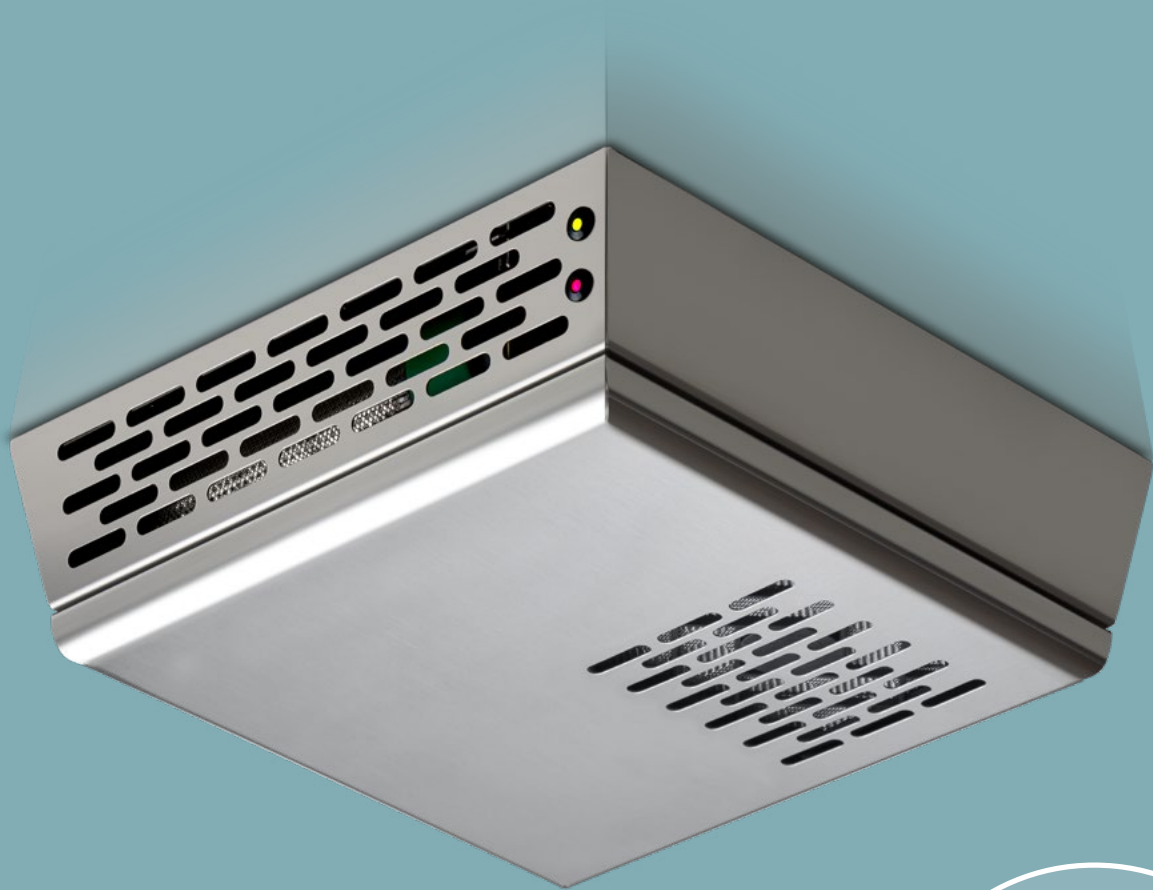


# JONIX

pure living

## JONIX up IN NON THERMAL PLASMA TECHNOLOGY

### DEVICE FOR SANITIZATION AND DECONTAMINATION OF AIR AND SURFACES



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



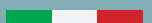
mould



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 SANITIZATION DEVICES



JONIX up IN uses advanced cold plasma technology to eliminate bacteria, moulds, viruses, chemical pollutants, VOCs and odours, ensuring bacterial decontamination of internal surfaces and the air inside lifts, small rooms and various means of transport.

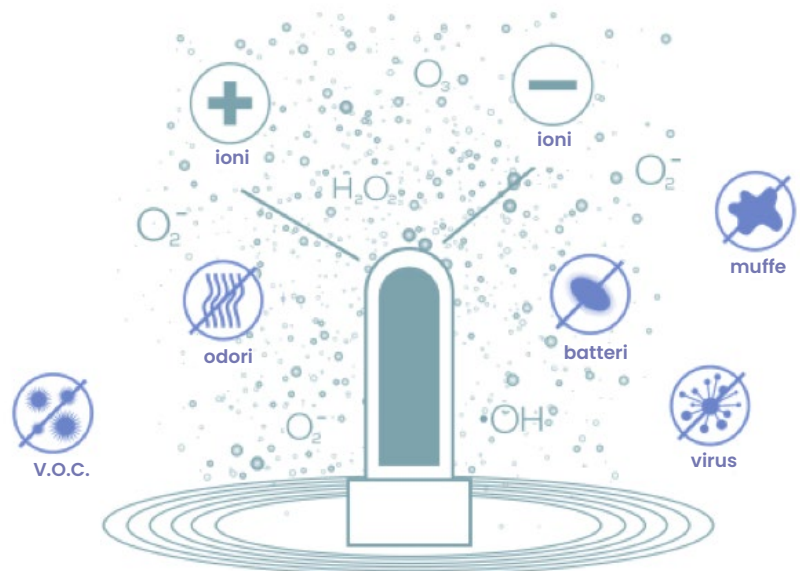
This sanitising device, uses the physical phenomenon of ionisation, it promotes the controlled formation of particular electrically charged species in the air through an electrostatic field. The latter simulates a natural process that normally occurs through solar radiation, mechanically or through other physical phenomena. The particular ionic species produced are proven to be particularly effective as sanitising agents in the air and on surfaces. Moreover, they are scientifically and historically proven to be beneficial to people, especially the negatively charged species (i.e., those deriving from single or small groups of molecules that receive one electron).

## NON THERMAL-PLASMA TECHNOLOGY

It is an advanced form of air ionisation, with a high stopping power for microbiological and chemical agents. Non-thermal plasma is a physical phenomenon generated at room temperature. It is an ionised gas, i.e., made up of various electrically charged particles: electrons, ions, atoms and molecules of organic and chemical origin which colliding with each other produce oxidising species.

It is considered a safe process for oxidising and breaking down pollutants. Through the collision of highly energetic electrons with oxygen, water vapor and nitrogen, it generates various active species (ions or neutral and radical species), these are transported by the airflow towards polluted agents. It is therefore an active air sanitising system, which hunts for pollutants by decomposing them without creating residual substances. Non-thermal plasma eliminates bacteria, viruses, moulds, spores, odours, and all volatile organic compounds (VOCs): formaldehyde, benzene etc

...



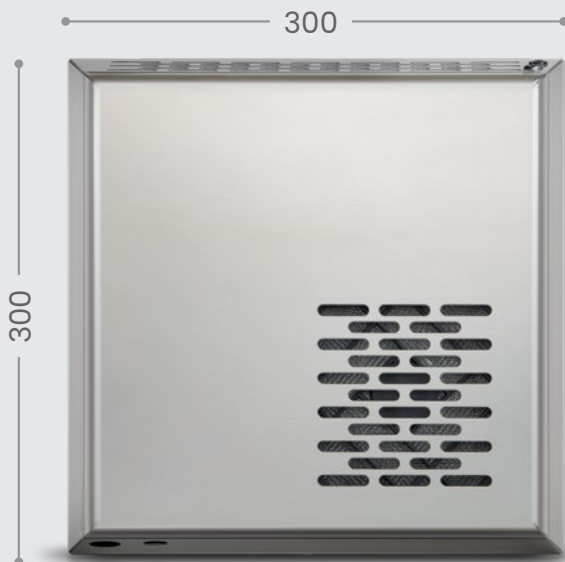
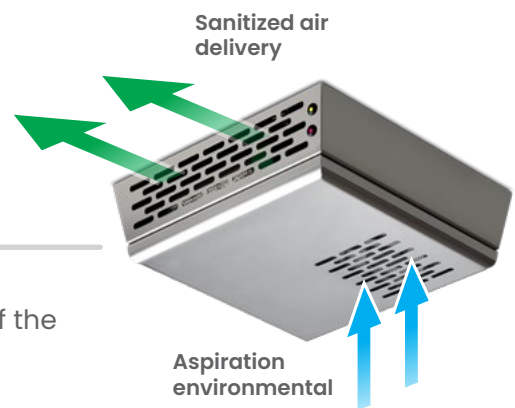
## EXCLUSIVE NATURAL SANITISATION SYSTEM WITHOUT THE USE OF CHEMICALS

- **High efficiency:** reduction of bioburden and of volatile organic compounds up to 99% compared to the initial concentration.
- **Natural process:** it does not use nor produces residual chemical substances. Disinfects/purifies the air and interior surfaces of elevators without leaving any residue.
- **Strong deodorizing action:** it quickly eliminates odors from the air.
- **Health protection:** without contraindications, thanks to a technology that has been positively tested and used in the medical, food and pharmaceutical fields.

The JONIX up IN device has been specifically designed to be positioned inside lifts and compatible with the presence of people.



Example of installation of the JONIX up IN device on lift.



### CONTROL PANEL

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

### JONIX up IN

JONIX up IN is a sanitisation and decontamination unit with cold plasma technology, for the purification and decontamination of internal surfaces and air. Designed to be easily installed on the wall or ceiling, it is a very versatile product suitable for particularly quiet environments such as offices, or small environments such as lifts or cubicles thanks to the possibility of modulating fan speeds and NTP hourly productivity. JONIX up IN is simple and essential. With the integrated management systems, the control and functions can be managed remotely.

### ECOLOGICAL AND COMPATIBLE IN CASE OF PEOPLE'S PRESENCE

No chemical product is used and it has zero residual substances. It continuously sanitizes both the air and the surfaces, no negative impact on materials. It eliminates the odours thereby improving indoor comfort.



covid-19



V.O.C.



odours



bacteria



mould



virus



multiresistant  
bacteria

## PRODUCTS CONTROLLED AND VALIDATED FOR INDOOR AIR HEALTH

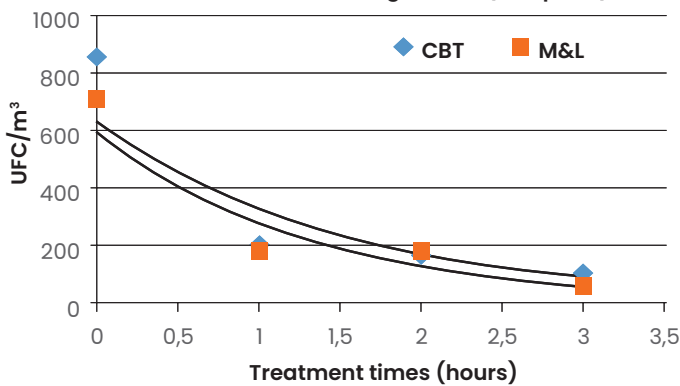


TÜV PROFICERT certifies the sincerity of the data and performances declared in scientific dossiers product catalogs. Using laboratory data, which have been evaluated as reliable.



Bio-Safe® Certification: a guarantee mark for health and well-being living within confined spaces. JONIX up IN 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).

Effects of JONIX up IN treatment on airborne micro-organisms (RSU plant)



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



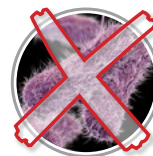
Escherichia coli



Pseudomonas



Aspergillus brasiliensis



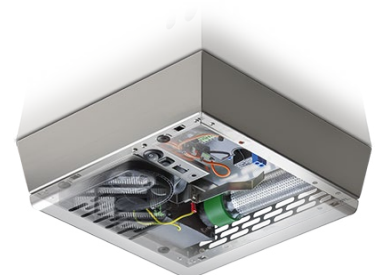
Salmonella



Legionella

## APPLICATION SECTORS

The JONIX up IN device has been specifically designed to be positioned inside lifts, but, due to its compact shape and its sanitising action, it can be used in many other environments with smaller sizes such as offices, changing rooms, bathrooms, closets, waiting rooms of medical and veterinary offices, cold rooms, processing and food packaging rooms, etc.



## ECOLOGICAL PLANNING

### Ecological=no chemical products

JONIX up IN device does not use chemicals product and does not generate residual substances.

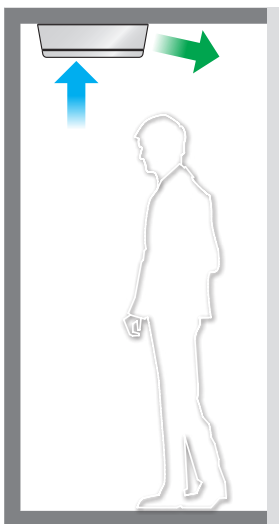
### It can be used continuously following the operating logic of the system.

Its continuous activity, besides purifying the air, generates a correct air ionization that ensures an environmental comfort for the reduction of stress from work, it encourages proper breathing. In order to protect and promote health in indoor environments.

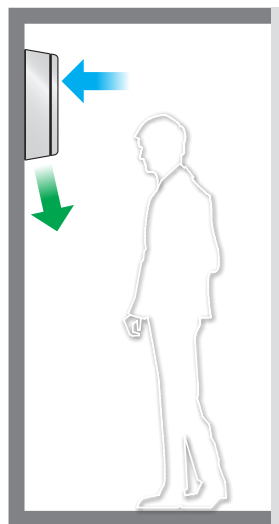
## EASY TO INSTALL IN ANY POSITION

Thanks to their versatility and reduced dimensions, the JONIX up IN devices can be easily installed depending on the needs. JONIX up IN can be fixed both to the ceiling and the wall:

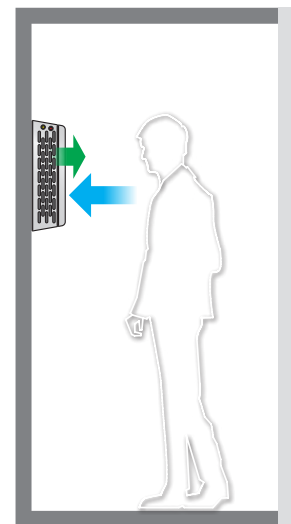
➡ : air present in the environment. - ➡ : ionised airflow.



**CEILING MOUNTING**  
(only this configuration is possible for lifts and lifting systems).



**WALL MOUNTING**  
Vertical ionised air delivery (not for lifts and lifting systems).



**WALL MOUNTING**  
Ionised air delivery horizontally (not for lifts and lifting systems).

## GESTIONE DI JONIX up IN AND DISPLAY MANAGEMENT (OPTIONAL)

The JONIX up IN device upon request can be equipped with a display that allows you to change the fan speed settings and to modify the functions available for the NTP ionisation device.





covid-19



V.O.C.



odours



bacteria



mould



virus

multiresistant  
bacteria

## TECHNICAL FEATURES

### MODEL

The device is configurable: it is possible to modulate the fan speeds, the hourly productivity of the sanitising air flow and control it remotely.

#### up IN



#### up IN plus



Code (230v)	70JONIXUPIN	-
Code (12v)	-	70JONIXUPIN12
Code (24v)	-	70JONIXUPIN24
Plasma generator	1 x 175 mm type	1 x 175 mm type
Size	300 L x 300 P x 93 H mm	300 L x 300 P x 93 H mm
Weight	4.5 kg	7.5 kg
Sound pressure Lp. Leq.	42 - 47 - 52 dB (A) depending on the speed	42 - 47 - 52 dB (A) depending on the speed
Type of power supply	230 V / 1~ / 50 Hz	12 Vdc 24 Vdc
Consumption	16 - 21 - 27 W depending on the speed	50 W max
Ventilation type	no. 1 EC, high efficiency plug fan, with integrated control	no. 1 EC, high efficiency plug fan, with integrated control
Filter	Dust-proof SAE 304 stainless steel	Dust-proof SAE 304 stainless steel
Air flow rate	Variable ventilation 35 - 60 - 90 m <sup>3</sup> /h	Variable ventilation 35 - 60 - 90 m <sup>3</sup> /h
For rooms up to:	120 m <sup>3</sup>	120 m <sup>3</sup>
Colour	SAE 304 stainless steel	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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