



**MAKING INSIDE  
SAFE AS OUTSIDE**



## THE BACKGROUND ON CLENZAIR

Clenzair is a new company set up during the pandemic to source and supply air purification products that have been certified to kill Covid-19.

Jonix was founded in Italy in 2013 by technicians that specialised in air treatment and researchers in applied chemistry and biologists. They have a vast amount of experience in the field of scientific research and solid technical skills in the field of air treatment. Their first goal was to find effective solutions, that were at the same time fast and applicable in all areas where it was necessary to eliminate contaminants. They developed an evolved system of air ionisation, with non-thermal plasma (NTP) technology. This technology is used in the Jonix Cube.

Clenzair have partnered with Jonix to become the exclusive UK distributors of the cube.

[Click here for Jonix website](#)



## IONS

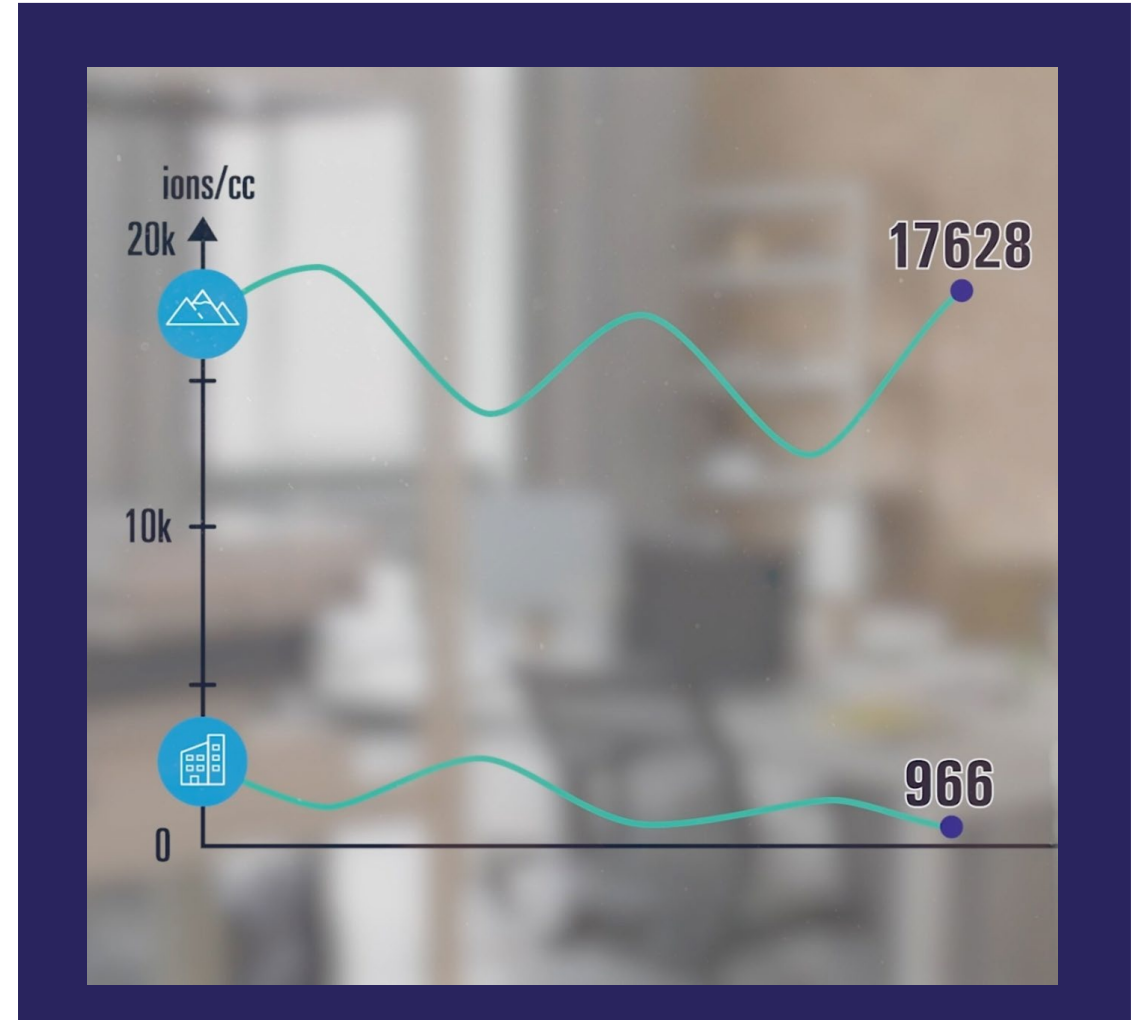
Ions are positively or negatively charged molecules or atoms that occur naturally everywhere in the outdoors. Ions are created with energy from rushing water, crashing waves and even sunlight – they are constantly working to clean the air. GPS NPBI™ technology generates ions without producing ozone or other harmful by products, so you can bring outdoor freshness indoors.

### **Unfortunately there are lower concentrations of ions indoors**

A typical outdoor environment has 450 to 2,000 ions per cc. Ions are naturally occurring and are higher near areas with rushing water or at higher elevations. Ions near waterfalls have been measured at upwards of 19,000 ions per cc. Indoor ion concentrations in buildings without ionisers generally range from dozens to several hundred ions per cc.

**Ionisation is the process of using voltage to electrically charge air molecules**

[\*\*FIND OUT MORE HERE\*\*](#)



## VIRUS KILLING CAPABILITIES

Clenzair products neutralise over 99.9% of Airborne and Surface bacteria and Viruses such as **COVID -19, MRSA, Bird Flu, Swine Flu, Corona Virus (SARS), Ebola, Mould and E.Coli.**

Clenzair also eliminates odours and over 98% of mould. It offers state of the art Air sanitisation devices for all environments from offices, supermarkets, gyms, cinemas, retail outlets, large production sites and warehouses to stadiums and shopping centres.

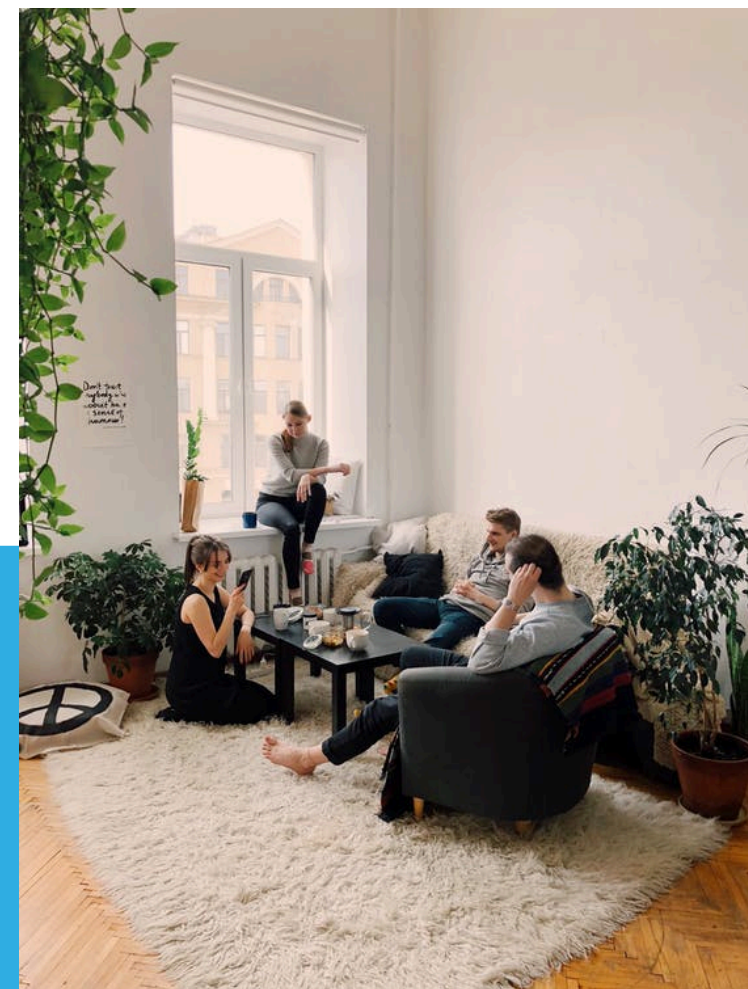
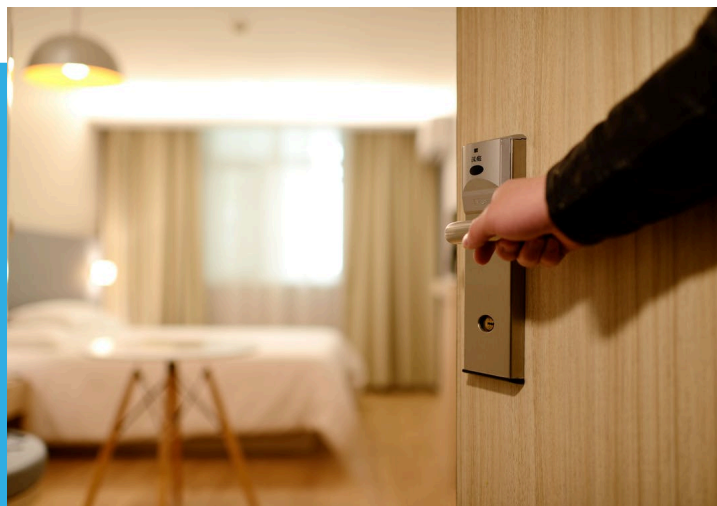
Clenzair is not just about the here and now to tackle Coronavirus. It prepares us for the future - The WHO have warned that the **Coronavirus pandemic is 'not necessarily the big one'** and that a more deadly virus could yet sweep the globe. Dr Mike Ryan, head of the WHO emergencies programme, said on the 29<sup>th</sup> of December 2020 that **the pandemic was a 'wake-up call'**

[\*\*READ MORE HERE\*\*](#)

## SUITABLE FOR ....

The Jonix cube is suitable for rooms up to 85m<sup>2</sup>. making it the perfect solution for...

- Homes
- Offices
- Waiting rooms
- Medical centres
- Hotel rooms
- Small classrooms





## PARTICULATE MATTER

### **Harvard study links poor air quality to higher coronavirus death rates....**

Studies have long shown exposure to fine particulate matter puts people at heightened risks for lung cancer, heart attacks, strokes and even premature death.

Public health officials have lately suspected a link between dirty air and serious illness and death from Covid-19.

In an analysis of 3,080 countries in the United States, researchers at the Harvard University TH. Chan School of Public Health found that a person living for decades in a country with high levels of fine particulate matter is 15% more likely to die from the coronavirus than someone with as little as one measured unit ( $\mu\text{g}/\text{m}^3$ ) less of fine particulate matter.

Breathing in such microscopic pollutants, experts say inflames and damages the lining of the lungs over time, weakening the body's ability to fend off respiratory infections like Covid-19.



## HOW IT WORKS

### **The Jonix cube uses advanced non-thermal plasma (NTP) technology**

NTP is a physical phenomenon generated at room temperature, which uses the air as a gaseous mixture transforming it into an ionized gas consisting of various electrically charged particles: electrons, ions, atoms and molecules that collide with each other producing oxidizing species; the reactivity of particles causes oxidation phenomena able to disaggregate volatile organic compounds, bacteria, microorganisms, odours.

The "freed" electron from the outer orbit is fixed immediately onto another atom that takes on a negative electric charge. Each atom has a well defined probability of becoming a negative or positive atom depending on the saturation of the peripheral crown. In nature, ions are produced by solar radiation, by friction of the winds on the surface of the earth, by thunderstorms, rain and other atmospheric events, by the absorption of cosmic rays, by the collision of particles with kinetic energy.





## FEATURES

- Kills 99.9% of viruses & bacteria on all surfaces & in the air
- Kills the germs in a sneeze or cough mid-air
- Eliminates odours in the air & in furniture
- **Kills COVID-19**
- Covers up to 85m<sup>2</sup> in one single unit.
- Cost effective
- Safe to be in operation 24/7 while people present
- No harmful chemicals used
- Plug and play set up
- Reduces mould by over 98%
- Established & proven technology that has been widely tested
- Reduces sick building syndrome
- Small and compact





## PRODUCT & INSTALLATION

The Jonix Cube is suitable for any rooms up to 85m<sup>3</sup>. These units can easily be moved from room to room and are just plug and play.



**Dimensions mm:** 238 L x 238 P x 260 H

**Weight kg:** 4

**Air flow m<sup>3</sup>/h:** 40

**For areas up to:** 85 m<sup>2</sup>

**Consumption:** 10 W

**Power supply:** 230 V /~ / 50 Hz

**Colour:** Black or White

## INDEPENDENT TESTING

### **SARS-CoV-2 Neutralisation by Non-Thermal Plasma**

**GOAL** – Evaluate the NTP system and determine efficiency against the SARS COVID-19 virus.

**METHOD** – Each viral suspension was prepared and amplified on a large scale in monolayer cell cultures. After the infection and multiplication of the virus, the cellular debris was removed by double centrifugation, and the supernatant, containing the virus, is taken to determine the viral titer. This viral suspension was prepared and transferred to 24 well plates. These were then tested immediately after contact and at regular intervals.

**RESULTS** – The results obtained show that the Jonix Cube device with Non-Thermal Plasma Technology has an effective antiviral activity against SARS-CoV-2 with a reduction of the viral load equal to 99.99999% after only 30 minutes of exposure. This suggests that the achievement of the reduction level required by the technical standards may also occur for considerably shorter times.

**CONCLUSION** –

**NTP kills 99.9% of COVID-19 causing Pathogen**



This Independent test was performed by  
The University of Padua.

## **Jonix was awarded the European Commission Seal of Excellence**

Certificate delivered by the European Commission,  
as the institution managing Horizon 2020,  
the EU Framework Programme for Research and Innovation 2014-2020

**Robust technology combining both air filtration and purification with  
zero chemicals used and zero residues produced**

following evaluation by an international panel of independent experts

**WAS SCORED AS A HIGH-QUALITY PROJECT PROPOSAL  
IN A HIGHLY COMPETITIVE EVALUATION PROCESS\***





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