ActivTek™

Professional systems increasing the microbiological safety of building users

A breakthrough in the fight against viruses, bacteria and other harmful pollutants

NEW AIR QUALITY

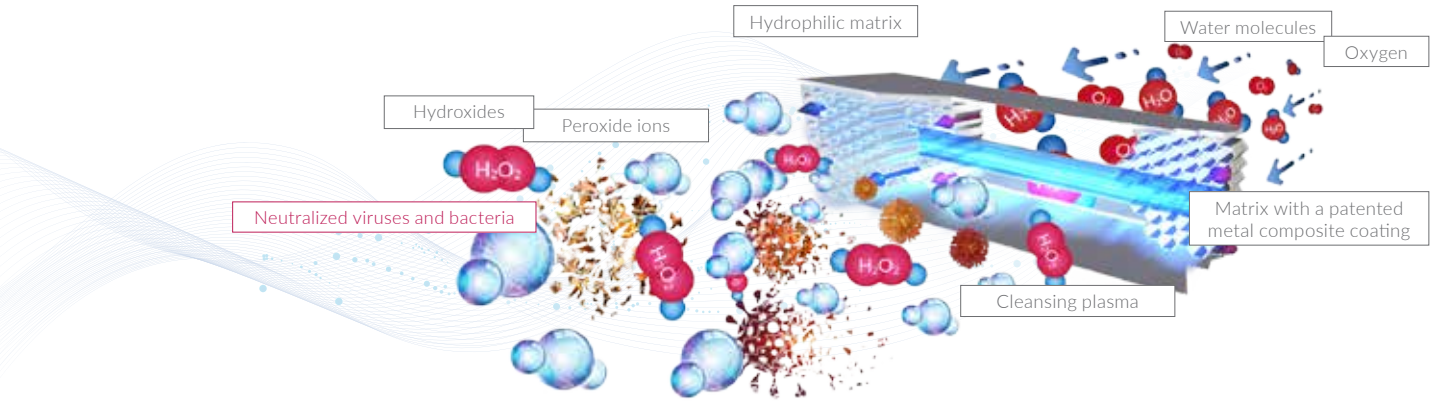
Unique technology

An innovative system for the elimination of viruses, bacteria, fungi, allergens and volatile organic compounds and unpleasant odours, based on the active RCI ActivePure® technology. It cleans and purifies the air based on processes naturally existing in the environment. It is the only technology that maintains microbiological purity both in the air and on surfaces, and it can operate in the presence of people, thus enabling the fight against harmful to health pollutants.

- It operates continuously in the presence of people, 24/7
- Eliminates microbes from the air and surfaces
- It is safe for people and animals
- It operates effectively, which is confirmed by numerous researches
- Supports WELL, LEAD, BREAM certification
- It is modelled on natural processes
- It is maintenance-free
- Eliminates "Sick Building Syndrome"

Benefits of using the RCI ActivePure® technology:

- Maintains microbiological purity, both in the air and on surfaces
- Increases the level of safety of building users, reducing the risk of infection
- Works in the entire volume of rooms, also in hard-to-reach places
- Based on phenomena occurring in nature (photocatalysis); it is an ecological and safe method
- Operates in the presence of people
- Eliminates SARS-CoV-2 virus from the air and from the surfaces
- Guarantees durability of the obtained results, thanks to 24/7 operation
- Reduces the costs related to the operation of the installation, ensuring the microbiological cleanliness of the ventilation ducts
- Neutralizes unpleasant odours and Volatile Organic Compounds
- Improves the comfort of living in the building



Principle of operation

The heart of the system is a hydrophilic honeycomb matrix, covered with nano-particles, i.e. titanium dioxide, rhodium, silver, copper. Under the influence of light and water vapour, chemical reactions take place on the surface of the matrix, as a result of which ionized oxidants are formed. They have strong antibacterial and antiviral properties, and also precipitate dust pollutants, allergens, reduce VOCs, and neutralize unpleasant odours.

Areas of application

- Office buildings
- Educational buildings
- Catering buildings
- Hotels
- Places of physical activity
- Public utility facilities
- Cultural institutions
- Commercial facilities
- Industrial facilities
- Houses and flats
- Medical facilities
- Food plants

INDUCT devices

Intended for installation in the mechanical ventilation duct. The assembly is minimally invasive and does not require redesigning or rebuilding the existing installation.

Device parameter	Induct 500	Induct 750	Induct 2000	Induct 5000	Induct 10000
Average resistance	4-6 Pa	3-5 Pa	3-5 Pa	3-5 Pa	3-5 Pa
Dimensions (AxBxCxDxE) [mm]	260x60x30	245x245x205x60x145	245x245x285x60x225	245x245x430x60x370	255x285x430x60x370
Power supply / Power consumption	230V, 50/60 Hz /14 W	230V, 50/60 Hz /17 W	230V, 50/60 Hz /19 W	230V, 50/60 Hz/32 W	230V, 50/60 Hz /64 W
Air flow	0-6 m/s	0-6 m/s	0-6 m/s	0-6 m/s	0-6 m/s
Air temperature	3-93,3 °C	3-93,3 °C	3-93,3 °C	3-93,3 °C	3-93,3 °C

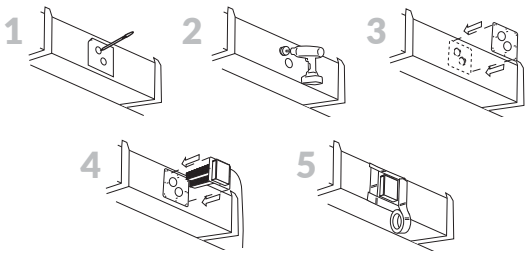
Selection method for INDUCT devices

Appropriate selection of devices ensures microbiological cleanliness in the ventilation ducts, improving the quality of indoor air.

Device parameter	Induct 500	Induct 750	Induct 2000	Induct 5000	Induct 10000
Capacity	up to 123,3 m^3/h	up to 510 m^3/h	up to 850 m^3/h	up to 1550 m^3/h	up to 3066 m^3/h

Caution: The above selection method does not apply to the facilities from the medical and food industries. The final selection of devices depends on the type and degree of contamination. Based on the submitted inquiry, we will select the optimal version, with consideration to the specificity of the application and design assumptions

Installation of INDUCT devices



The devices are mounted in the ventilation ducts in a minimally invasive way and can be connected to the monitoring system.

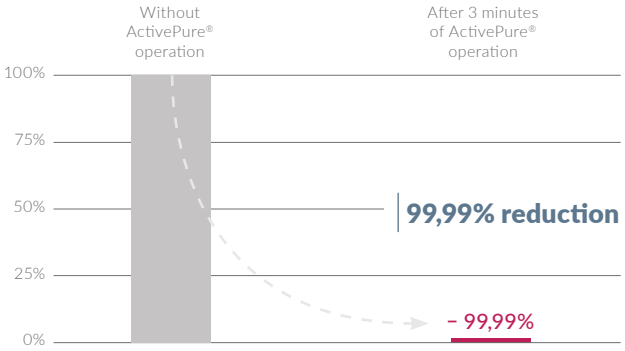
Caution: The maximum distance between the device and the last air supply outlet should not exceed 30m. It is allowed to extend the distance after an individual analysis of the installation design.

Efficiency confirmed by the researches

The efficiency of microbiological safety systems with active ActivePure® RCI technology is evidenced by numerous researches with the relevant documents.

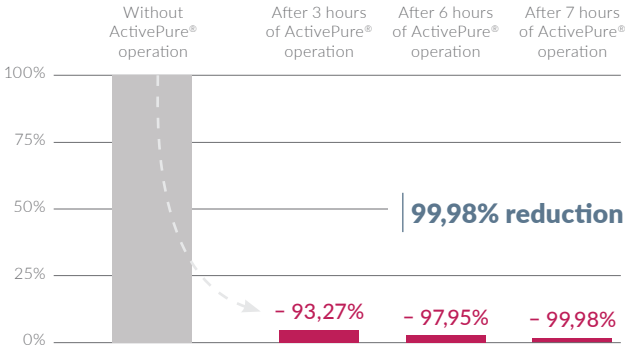
Summary of research results on selected pathogens*	
Type of pathogen	**Reduction rate**
A H1N1 virus	100%
A H5N8 virus	100%
EBV-2 virus	100%
New Delhi	99%
Legionella pneumophila	100%
Staphylococcus aureus	98,5%
Escherichia coli	100%
Candida albicans	100%
Aspergillus niger	99%
Penicillium chrysogenum	96%

Reduction rate of SARS-CoV-2 virus in the air
in an active way - with ActivePure® RCI technology



University of Texas Medical Branch (UTMB)

Reduction rate of SARS-CoV-2 virus on the surfaces
in an active way - with ActivePure® RCI technology



MRIGlobal Laboratory in Kansas City

Our solutions are used, among others:

- U.S. Military – USA
- U.S. Department of Defense – USA
- NASA – USA
- Industry City – Brooklyn, NY
- Bank of America – São Paulo, Brazil
- Facebook – São Paulo, Brazil
- Amazon – São Paulo, Brazil
- Texas Rangers Baseball Club
- Microsoft – São Paulo, Brazil
- Genesis Management Group – Boston, USA
- CNN – São Paulo, Brazil
- Echo Investment – Poland
- Kolporter – Kielce, Poland
- Hotel Arłamów – Arłamów, Poland
- PGE Bełchatów – Bełchatów, Poland
- EPP Property Management – Kielce, Poland
- AmRest – Poland
- MARS Polska – Sochaczew, Poland
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