


BIOINACTIVATION **TECHNOLOGY**

WE CURE AIR





POTOK AIR DECONTAMINATION TECHNOLOGY: WHAT IS IT?



POTOK INTER (LLC), a proven expert in air decontamination, offers a technology that has no analogues in the world. It inactivates all types of airborne microorganisms (bacteria, viruses, fungi, mold, etc.) with more than 99% efficiency.

POTOK INTER designs and produces air decontamination equipment of various types: standalone recirculating units, induct mount devices, ceiling-mounted air distribution systems.



POTOK EQUIPMENT IS USED IN A WIDE RANGE OF INDUSTRIES:

- HEALTHCARE
- FOOD INDUSTRY
- TRANSPORTATION
- PUBLIC FACILITIES
- PRE-SCHOOL AND SCHOOL FACILITIES
- SPORTS CENTERS
- AEROSPACE INDUSTRY
- DOMESTIC USE

JOIN THE REVOLUTION IN AIR DECONTAMINATION!

Bioinactivation means complete destruction of microorganisms with no chance of further recovery.

BIOINACTIVATION HELPS TO:

- Enhance microbiological safety of the air
- Protect products from airborne microorganism contamination
- Prevent the appearance of new microorganisms with increased resistance to existing disinfectants resulting from constant mutations
- Prevent accumulation of live microorganisms in filters, air ducts and other elements of ventilation systems
- Deal with the problem of inefficiency of traditional air decontamination technologies



NO UV NO IONS NO CHEMICALS
NO PHOTOCATALYSIS NO OZONE NO HEPA

POTOK TECHNOLOGY ADVANTAGES

- All airborne microorganisms inactivation (99% efficiency)
- No accumulation of microorganisms inside the device
- No chance of microorganisms' revival or emission
- Mutation resistant (no genetic residue)
- Efficiency of inactivation does not depend on air humidity
- Permanent automatic control over inactivation effectiveness
- Human and environment friendly
- No consumables needed
- No special maintenance
- Low energy consumption (10-40 W)
- 5-year warranty
- 10-year service life

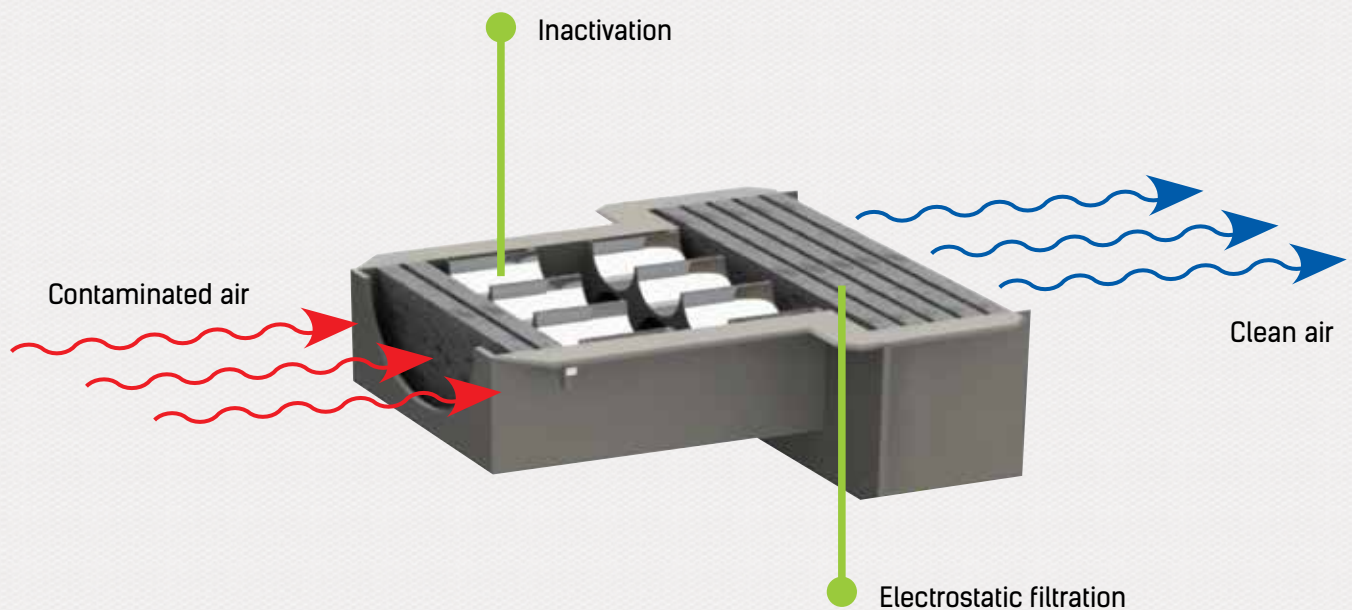
NO HIDDEN EXPENSES

POTOK AIR DECONTAMINATION TECHNOLOGY: HOW DOES IT WORK?

POTOK internationally patented technology is based on a physical method of destroying airborne microorganisms through exposure to constant electric fields of alternating polarity followed by fine electrostatic filtration of desintegrated biomass and aerosol particles.

Inactivation – repeated exposure to constant electric fields of alternating polarity until microorganisms are completely destroyed; once inactivated this way they cannot revive.

Electrostatic filtration – trapping of inactive biomass and volatile particles passing through the cascade of nickel foam plates.



40 000

More than 40.000 air decontamination devices have been sold over past 20 years.

2 500

More than 2.500 medical institutions are protected by POTOK decontamination units.

POTOK DEVICES

Standalone unit



Standalone unit for food industry



Capacity 130 m³/h

Power consumption no more than 10 Watt

Net weight 14 kg

Dimensions 590x424x392 mm

Designed for use in any kind of premises

180 – 360 m³/h

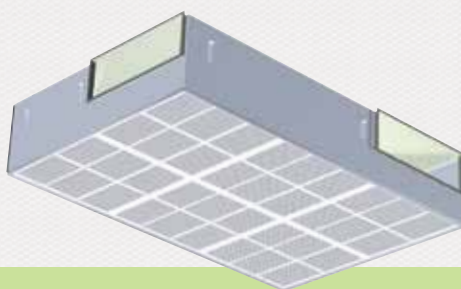
no more than 20 Watt

17 – 55 kg

from 582x330x376 mm to 880x460x860 mm

Designed for use on food production sites and in agriculture

Ceiling-mounted air distribution system



Induct mount devices in single outward case



Capacity up to 3600 m³/h

Aerodynamic resistance of no more than 110Pa

Power consumption no more than 40 Watt

Net weight 25 – 520 kg

Designed for use in premises with high hygiene requirements

180 – 900 m³/h

of no more than 110Pa

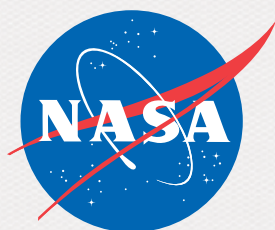
no more than 10 Watt

15 – 51 kg

Designed to be installed at a convenient location within the main ventilation system

Only selected products are presented here. Please, contact our sales department for more information.

POTOK USERS



РОСКОСМОС



- **Botkin Hospital**
the largest general medical centre in Moscow
- **Burdenko Main Military Clinical Hospital**
one of the largest Russian medical centres
- **Moscow City Clinical Hospital No.1**
- **Regional Perinatal Centres**
Tver, Rostov on Don, Krasnoyarsk, etc.
- **Prodo Group**
#1 national player on the Russian meat and poultry market
- **PepsiCo**
- **Probiotic LLC**
- **East Balt Bakery**
- **Russian Railways**
part of the global top-3 railway companies
- **NASA**
- **ROSCOSMOS**
- **Moscow Zoo**

▲ **POTOK** is the only
air decontamination
technology used on board
the International Space
Station



▲ **POTOK** got positive
references from leading
Russian medical institutions

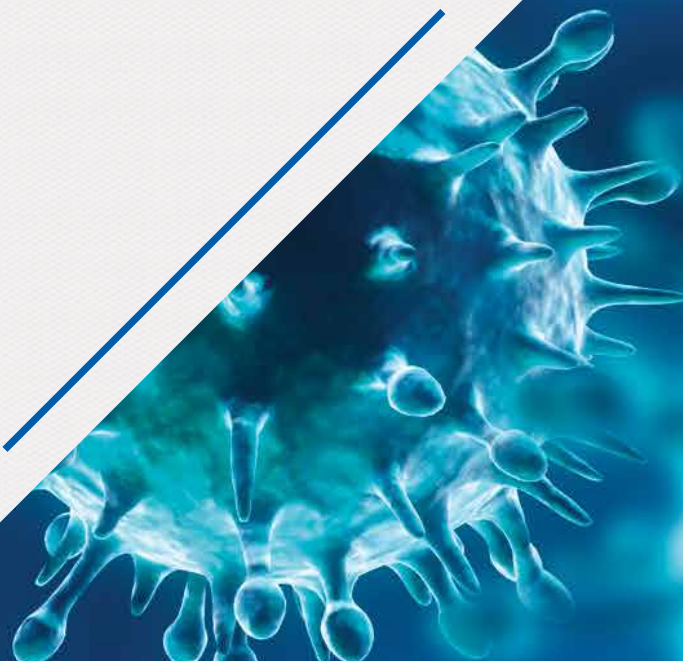
▲ **POTOK** technology use
in food industry results in
reduction of losses, higher
product quality, extension
of product's shelf life and
delivery area

▲ **POTOK** is internationally
recognised by leading research
institutes



▲ **POTOK** prevents
Healthcare-Associated
Infections including methicillin-
resistant *Staphylococcus*
aureus (MRSA) infections

▲ **POTOK** eradicates
Legionella Pneumophila and
other bacteria spread from
HVAC systems increasing work
efficiency of office employees





SCIENTIFIC-MANUFACTURING FIRM POTOK INTER (LLC)

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BIOINACTIVATION
SYSTEMS