

**WE CURE AIR™**

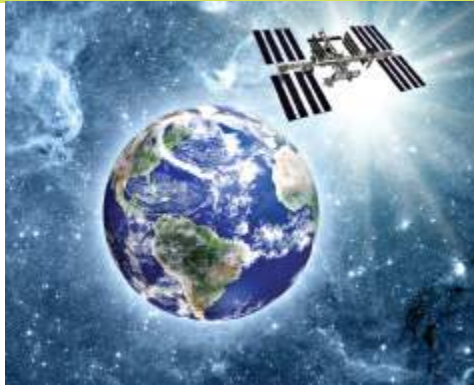


**CE** **Eco**  
**friendly**



[www.potok.com](http://www.potok.com)

**potok®**  
BIOINACTIVATION  
SYSTEMS



## ABOUT US

*The only air decontamination technology in the world used in space (by ESA, ISS and NASA)*

*Air decontamination concept for maximum air quality*

**Potok Inter Engineering Company** is a renowned expert in air decontamination offering technology that has no analogues in the world. It inactivates all types of airborne microorganisms (bacteria, viruses, fungi, mold etc.) with greater than 99% efficiency within 0,5 seconds. POTOK Bioinactivation Technology is based on a physical method of influence using constant electric fields of alternating polarity with further fine filtration of inactivated biomass and aerosol particles.

Potok Inter Engineering Company designs and produces air decontamination equipment of different type but all based on Bioinactivation Technology: standalone devices, duct built-in units, 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
- AIRSPACE INDUSTRY
- DOMESTIC USE





References from leading medical facilities in Russia



Potok saves money and offers immediate ROI



Unlimited areas of application

## 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.

### BIO SAFETY:

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

### TRUST:

*Over 1500 premises of medical facilities have been cleaned with Potok decontamination units over past 20 years*

### ADVANTAGES:

*Potok unit consumes less energy than 10 Watt light bulb!*



## POTOK TECHNOLOGY BENEFITS:

- Inactivation of all types of microorganisms with more than 99% efficiency;
- Mutation-resistant (no genetic residue);
- No expendable materials;
- Extremely low energy consumption (10-40 Watt);
- Easy operation – no sophisticated maintenance;
- No harmful chemicals;
- Absolutely safe for humans and environment;
- Long service life;
- 5-year warranty.



**THERE ARE NO UP-FRONT COSTS AND NO HIDDEN EXPENSES!**

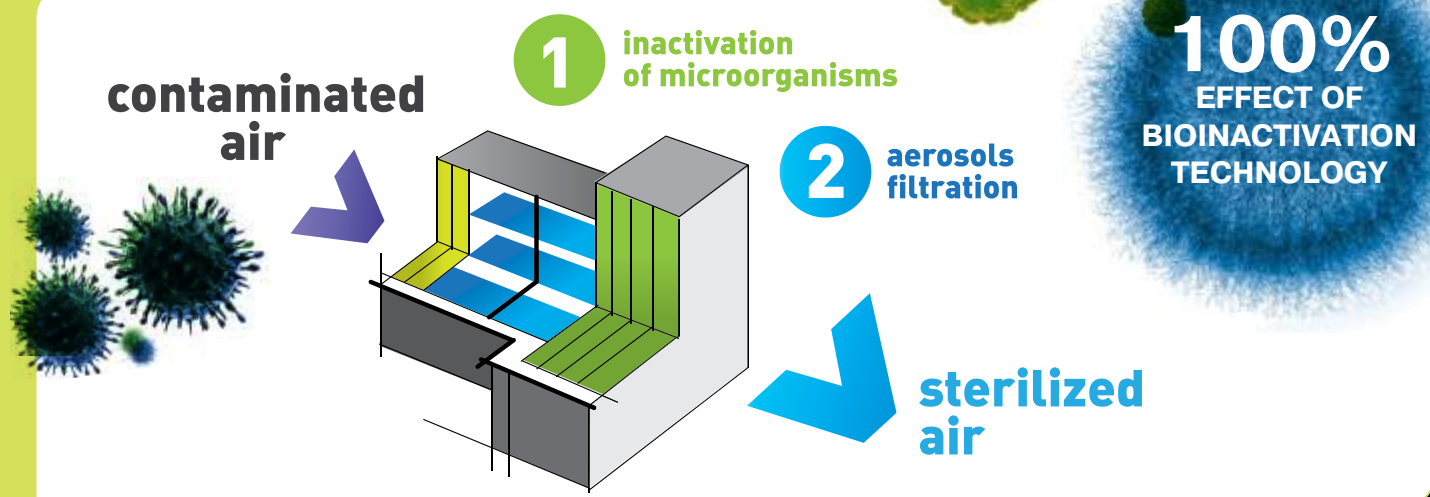


## POTOK AIR DECONTAMINATION TECHNOLOGY: HOW DOES IT WORK?

Decontamination is carried out in two stages:

**STAGE I:** in the inactivation area it comes to combined repeated exposure to the microorganisms through electric fields of alternating polarity, which causes irreparable damage to microbial cells: once inactivated this way they cannot revive.

**STAGE II:** in the area of fine filtration it comes to the capture of destroyed cells' fragments on highly porous nanoelectrodes of the electrostatic precipitator. Filtration efficiency thus corresponds to the filter class H11-H14.



Since 2002 «POTOK» units are functioning on board of the International Space Station for at least 6 hours on a daily basis, successfully providing optimal sanitary and microbiological state of air environment on the ISS

## POTOK UNITS

Today we offer the following types of Potok air decontamination units:

### Standalone Unit

- Productivity 130m<sup>3</sup>/hour
- Maximum consumed power - 10 Watt
- Maximum weight 13 kg
- Dimensions 590x424x392mm

Designed for use in any kind of premises



### Standalone Unit for Food Industry

- Productivity from 180 up to 360<sup>3</sup>/hour
- Maximum consumed power - 20Watt
- Maximum weight - 55kg
- Dimensions 582x330x376  
880x460x860 mm

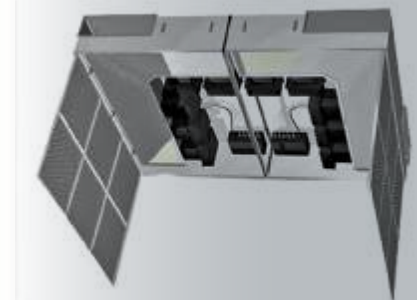
Designed for use on food roduction sites and in agriculture



### Ceiling-Mounted Air Distribution System

- Air consumption through two blocks between 780 and 1800m<sup>3</sup>/hour
- Aerodynamic resistance of no more than 110Pa throughout service life
- Electricity consumption of no more than 20Watt
- Dimensions of two blocks 1800x2400x350mm.
- Size of mounting flanges 600x200mm

Designed for use in premises with high hygiene requirements



### Duct Built-In Unit

- Air consumption of between 130 and 720m<sup>3</sup>/hour
- Aerodynamic resistance of no more than 110Pa throughout the entire service life
- Electricity consumption of no more than 10Watt
- The units are supplied with a remote control.

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



*\*Onle selected products are presented here.  
Please, contact our sales department for more information.*

# POTOK BIOINACTIVATION TECHNOLOGY PROTECTS YOUR FAMILY'S HEALTH!



Potok prevents the spread of microorganisms in fitness centers



Potok creates maximum air quality in dental offices



Potok eradicates all bacteria and viruses in prenatal centers

## Our awards:



The only air decontamination technology in the world used to ensure microbiological safety on orbital space stations

**2012**

High Tech of the 21st Century for the development of new designs of decontamination equipment and engineering solutions for the innovative transport and smart home programs

**2011**

The national VOCATION Award to the best doctors in Russia.

## Some of our clients:

- Burdenko Central Military Clinical Hospital
- Botkin Municipal Clinical Hospital
- Pirogov Municipal Clinical Hospital

- West Siberian Agricultural Group CJSC
- Samarsky Broiler LLC
- Moscow Zoo
- Multon CJSC (Coca-Cola)
- Wimm-Bill-Dann LLC (PepsiCo)
- Baltiysky Bereg CJSC Klinsky meat plant
- Probiotic LLC
- Ostankinsky meat plant

- ROSCOSMOS Federal Aerospace Agency
- ISS
- Russian Railways LLC





## AREAS OF APPLICATION IN HEALTHCARE:

- Operating theaters
- TB and infectious disease wards
- Intensive care units
- Prenatal centers
- Bacteriological laboratories
- HIV and oncology wards
- Emergency rooms
- Blood transfusion, bandage and burn wards
- Patient rooms
- Dental offices

**AIR DECONTAMINATION  
AT ITS POWERFUL BEST!**

**WE CURE AIR™**



**potok®**  
BIOINACTIVATION  
SYSTEMS

\*All equipment is certified.



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