



**POTOK
AIR DECONTAMINATION TECHNOLOGY USED BY NASA
DESTROYS SARS-COV-2 AND ALL OTHER VIRUSES, BACTERIA, AND MOLD**

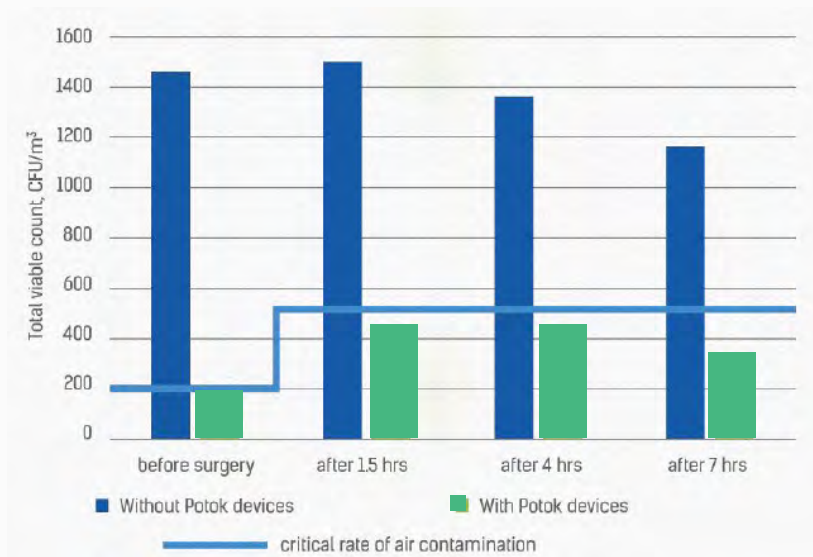
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POTOK IN HEALTHCARE

RESULTS OF USING POTOK TECHNOLOGY

BOTKIN HOSPITAL (MOSCOW) AND CITY CLINICAL HOSPITAL NO.1 (MOSCOW)



1300 surgeries
(implantation of endoprosthesis
of large joints)

LEVEL OF POSTOPERATIVE SEPTIC COMPLICATIONS (WOUND INFECTION):

3.5% - 4%
before
installing
«POTOK» devices

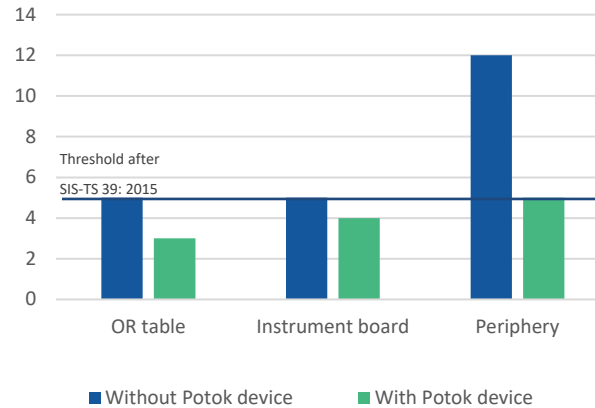
0.15%
using
«POTOK»
devices

1%
world
average
rate

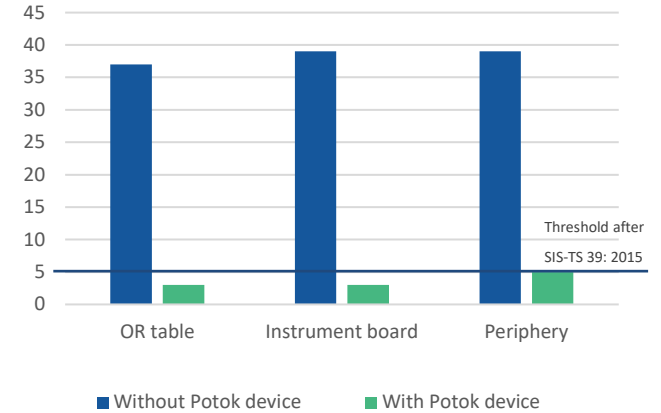
POTOK IN HEALTHCARE

RESULTS OF USING POTOK TECHNOLOGY

OPERATION ROOM AT THE OSTBAYERISCHE TECHNISCHE HOCHSCHULE (GERMANY) AND RUSSIAN HOSPITAL #24 (RUSSIA)



Comparison of the bacterial contamination (CFU/m³) of the room air in the OR in Germany



Comparison of the bacterial contamination (CFU/m³) of the room air in the OR in Germany

POTOK CLIENTS

In healthcare

REFERENCE LIST

01

**CENTRAL RESEARCH INSTITUTE
OF EPIDEMIOLOGY**

(RUSSIAN LABORATORY
FOR RESEARCH OF SARS-COV-2)

02

**INFECTIOUS DISEASES CLINICAL HOSPITALS
OF MOSCOW NO. 1 AND NO. 2**

(THE LARGEST HOSPITALS IN MOSCOW
ASSISTANCE TO PATIENTS WITH INFECTIOUS
DISEASES, INCLUDING PARTICULARLY
DANGEROUS INFECTIONS)

03

**SWISS UNIVERSITY CLINIC,
MEDSI GROUP OF COMPANIES,
MOTHER AND CHILD CLINICS**

(RUSSIA)

04

**AKFA MEDLINE MULTIDISCIPLINARY
MEDICAL CENTER,**

TASHKENT (UZBEKISTAN)

05

**10TH CITY CLINICAL HOSPITAL,
MINSK (BELARUS)**

06

**N. N. BLOKHIN CANCER CENTER,
MOSCOW (RUSSIA)**

07

**EMERGENCY HOSPITAL,
RYAZAN (RUSSIA)**

AND MANY OTHER INSTITUTIONS

INTEGRATION CASE STUDY

POTOK for Research Institute of Epidemiology in Russia



Research Institute
of Epidemiology

POTOK INSTALLATION AREA:
laboratories for SARS-CoV-2 studies

The project is designed to
use POTOK FAS900
standalone devices

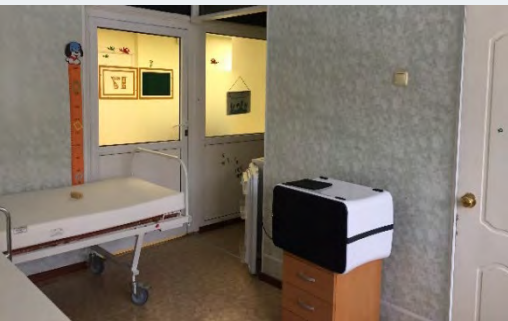


CLIENT'S BENEFITS:

- 01 Preventing the spread of SARS-CoV-2 by air
- 02 Individual protection against the virus in the workplace for scientists
- 03 Decrease in the incidence of ARVI and influenza among employees and the economic losses caused by sick leaves of them

INTEGRATION CASE STUDY

POTOK for Children's cancer and hematology hospital in Russia



Potok SAP130 standalone unit
in the children's ward

POTOK INSTALLATION AREA:
Children's wards, lock chambers

The project is designed to use
POTOK SAP130 standalone
devices



CLIENT'S BENEFITS:

- 01 The concentration of molds in wards was reduced to 0
- 02 By 3.7 times total microbial count in wards was reduced
- 03 By 4.3 times concentration of mold fungi in the lock chamber before the rooms was reduced
- 04 By 17.8 times total microbial count in the lock chamber before the rooms was reduced

INTEGRATION CASE STUDY

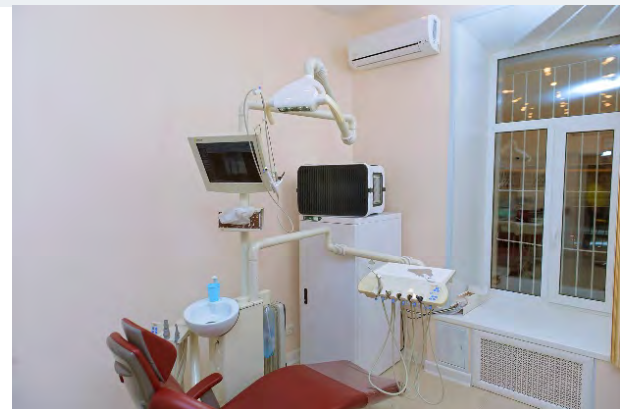
POTOK for Dental clinic in Russia



Potok SAP130 standalone unit
in the dental clinic, Moscow

POTOK INSTALLATION AREA:
Dental operation room, near the chair

The project is designed to use
POTOK SAP130 standalone
devices



CLIENT'S BENEFITS:

- 01 The risk of nosocomial infections decreases
- 02 Treatment effectiveness increases
- 03 Support for brand reputation

INTEGRATION CASE STUDY

POTOK for City clinical hospital in Republic of Belarus



City clinical hospital, Minsk

POTOK INSTALLATION AREA:
integration into existed centralized
inflow exhaust ventilation

POTOK devices integrated
into the gap
of the ventilation channel
at the mechanical floor



CLIENT'S BENEFITS:

- 01 The risk of nosocomial infections decreases
- 02 Treatment effectiveness increases
- 03 The recovery process is accelerated (hospital bed turnover increases)

INTEGRATION CASE STUDY

POTOK for AKFA Medline Multidisciplinary Medical Center in Uzbekistan



AKFA Medline Multidisciplinary Medical Center, Tashkent

POTOK INSTALLATION AREA:
ventilation of the surgery block,
consisting of 7 modern operating rooms.

Duct installations and Potok laminar ceilings supply decontaminated air to the working area of clean rooms, which are subject to increased requirements for the microbiological purity of the air environment.



CLIENT'S BENEFITS:

- 01 Compliance with international standards for patient safety.
- 02 Implementation of a set of preventive measures aimed at breaking the mechanism of transmission of nosocomial infections.
- 03 Maintaining a low level of operating costs for the air disinfection system.

INTEGRATION CASE STUDY

POTOK for Emergency hospital in Russia



Emergency hospital, Ryazan

POTOK INSTALLATION AREA:

terminal air distribution devices integrated into centralized inflow exhaust ventilation (laminar flow units)

POTOK LAD8640 device discharges the unidirectional airflow at a speed from 0.24 to 0.3 m/s into the working area of clean rooms (surgical table zone)



CLIENT'S BENEFITS:

- 01 The risk of nosocomial infections decreases
- 02 Treatment effectiveness increases
- 03 The recovery process is accelerated (hospital bed turnover increases)

POTOK IN FOOD INDUSTRY

Problem description

Mold and spoilage of food products before the expiration date their shelf life, high level of defects and returns are the main problems of most manufacturers. To solve them, many people spend serious effort and money on employee hygiene and surface disinfection.

At the same time, the air quality is rarely paid attention to. However, it is the dirty air of production that is the source of mold, yeast and bacteria, which, when they get on the product, lead to its rapid deterioration, significantly reducing the shelf life.

Fields of application

- 01 Dairy plants
- 02 Cottage cheese, butter and cheese production
- 03 Poultry and meat processing enterprises
- 04 Confectionery factories
- 05 Seafood Production plants
- 06 Mushroom farming and other food enterprises

POTOK CLIENTS

In food industry

REFERENCE LIST

01

PEPSICO

(POTOK UNITS WERE INSTALLED IN PACKAGING LINES OF PEPSICO DAIRY PRODUCTS: HASSIA, TREPKO AND TAURAS-FENIX LINES)

02

DANONE

(DAIRY PRODUCTION AREAS)

03

**ELEFThERIOU ELEFThERIOS,
CYPRUS**

(YOGHURT PRODUCTION AREA)

04

**PICK SZEGED ZRT.,
HUNGARY**

(Salami testing laboratory)

05

**MOLODECHNO DAIRY PLANT,
BELARUS**

(CHEESE PACKAGING AREA)

06

PRODO Group

(SAUSAGES SLICING AREA, SAUSAGES CHILL ROOM, CHICKEN MEAT PROCESSING AREA)

07

KHLEB NASUSHCHNY BAKERY

(REFRIGERATION CHAMBER FOR THE SEMI-FINISHED BAKED PRODUCTS)

08

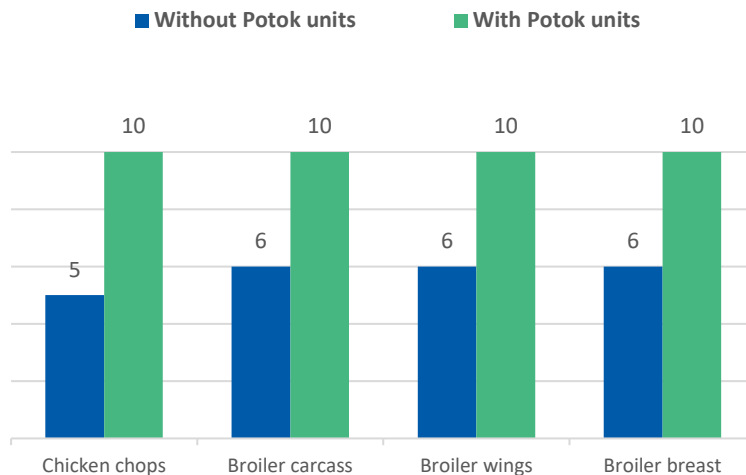
BOGORODSKY MEAT PROCESSING PLANT

(SAUSAGES SLICING AND PACKAGING AREA)

POTOK IN FOOD INDUSTRY

POULTRY AND MEAT PROCESSING

Meat is an excellent breeding ground for microorganisms, including pathogenic ones. The air contaminated with microorganisms prevents manufacturers from providing a consistently high quality of the product: there are problems such as slime, mold, gray-green color of minced meat, etc.



Shelf life of poultry products (days)

RESULTS:

+ 100%

to the shelf life of chilled semi-finished products

+ 66%

to the shelf life of chilled poultry products

by 2 times

the geography of sales has been expanded

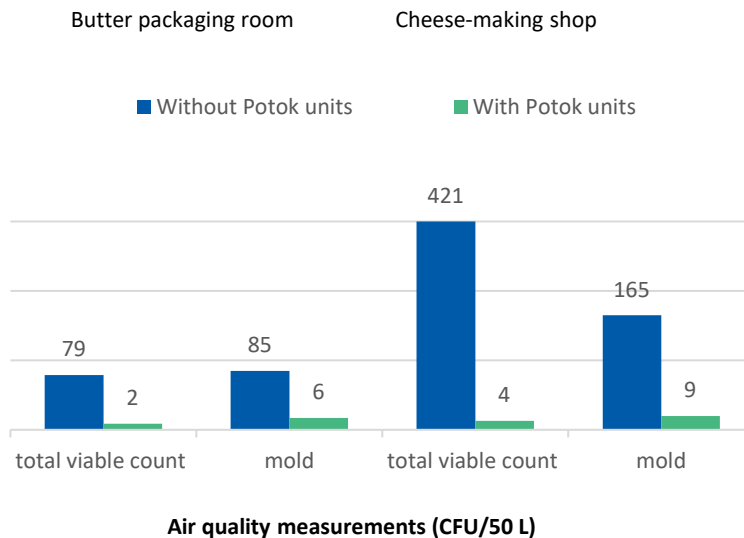
to 0

reduced returns from online retail

POTOK IN FOOD INDUSTRY

DAIRY INDUSTRY

In order to assess the reduction of the level of microbial air pollution in contact with the product, the Experimental Cheese-making Plant conducted research on the operation of the Potok equipment in the butter packaging room and in the cheese-making shop in 2016.



RESULTS:

by 106 times

reduced concentration of total viable count in the cheese-making shop

by 40 times

reduced concentration of total viable count in the butter packaging room

by 18 times

reduced concentration of mold in the cheese-making shop

by 15 times

reduced concentration of mold in the butter packaging room

INTEGRATION CASE STUDY

POTOK for Russian plant of the European multinational food-products corporation



POTOK INSTALLATION AREA:
dairy products manufacturing
and packaging

The project is designed to
use POTOK FAS1000
standalone devices in
stainless steel housings



CLIENT'S BENEFITS:

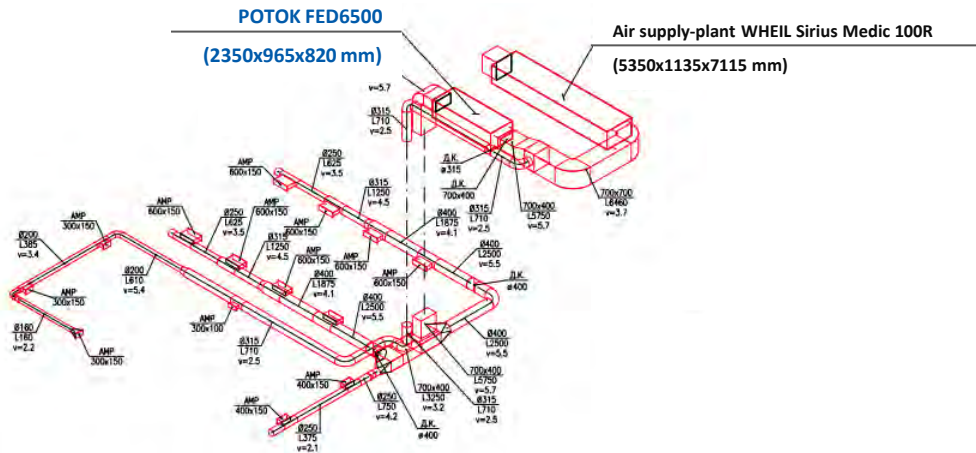
- 01 Reduced concentration of mold fungi and yeasts, bacteria and viruses in the air
- 02 Increase in the shelf life of products
- 03 Protection against the viruses in the workplace for staff

INTEGRATION CASE STUDY

POTOK for the leader of dairy industry in the Republic of Belarus and one of the largest manufacturers of natural dairy products in the Eastern European region



POTOK FED6500 device integrated into the gap of the ventilation channel at the mechanical floor



POTOK INSTALLATION AREA:

integration into existed centralized inflow exhaust ventilation

MICROBIOLOGICAL TEST RESULTS:

reduction of microorganisms concentration (mold and yeast) in the air to 0 CFU/m³

INTEGRATION CASE STUDY

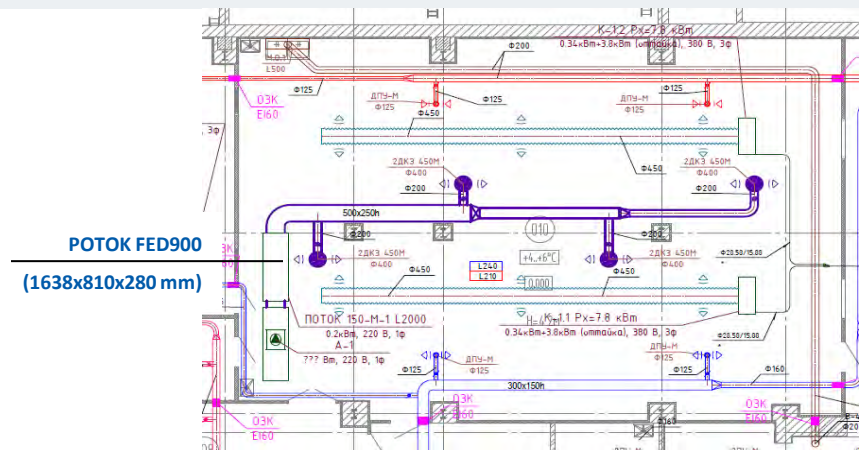
POTOK for one of the largest food holdings in Russia, specializing in the snacks and confectionery production



POTOK independent air decontaminating recirculation system

POTOK INSTALLATION AREA:
an independent air decontaminating recirculation system

(this technical solution is suitable for places, where there are a lot of microorganisms' producing sources (such as people or packaging materials) and when it is necessary to provide people or products with 100% decontaminated air)



MICROBIOLOGICAL TEST RESULTS:

reduction of microorganisms concentration (mold and yeast) in the air to 0 CFU/m³

CLIENT'S BENEFITS:

- 01 Increase in the shelf life of products
- 02 Decrease in product losses

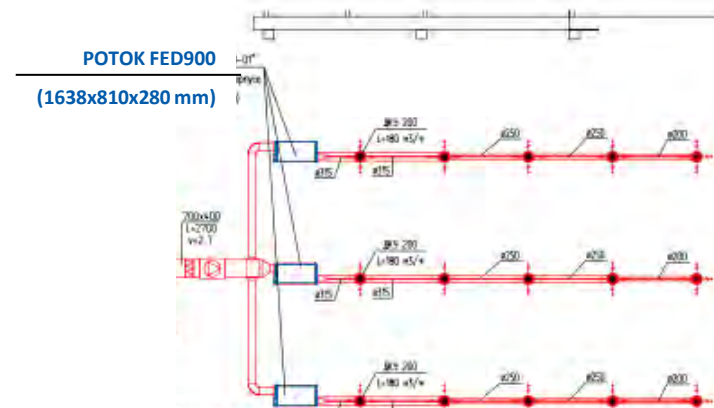
INTEGRATION CASE STUDY

POTOK for poultry farm in Russia



POTOK independent air
decontaminating recirculation system

POTOK INSTALLATION AREA:
integration into existed centralized
inflow exhaust ventilation



MICROBIOLOGICAL TEST RESULTS:
reduction of mold concentration in the air from 61 CFU/petrie dish to 1 CFU/petrie dish

CLIENT'S BENEFITS:

- 01 Increased product's shelf life from 5 to 7 days
- 02 Cost saving by losses reduction
- 03 Increased product quality and brand reputation

A large, detailed 3D rendering of a spherical virus particle, likely SARS-CoV-2, is centered in the upper half of the image. It has a dark, textured core and is covered in numerous green, spike-like protrusions of varying lengths. The background is a dark teal color with a subtle pattern of smaller, out-of-focus virus particles.

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DESTROYS SARS-COV-2 AND ALL OTHER VIRUSES, BACTERIA, AND MOLD

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