



RECENT DEVELOPMENTS FOR HEALTHCARE

MAIN ACTIVITIES OF ULAN-UDE INSTRUMENT-MAKING PLANT JSC



AVIATION EQUIPMENT

Radio-navigation equipment, elements and blocks of aviation automation, equipment of launch complexes components , components of missile control systems, electrical products (the company's customers are ODK JSC, Russian Helicopters JSC, OAK JSC et al)



ELECTRICAL ENGINEERING

The association's activities in the field of electrical products can be divided into two areas: the production of electric energy meters, "smart" meters; mastering vacuum switches and control cabinets



COVID-19 PROTECTION

In 2020, in the context of the pandemic, the company repaired ventilators for medical institutions of the Republic of Buryatia, mastered the production of face shields, recirculators-air decontaminators and ozonators.



MEDICAL PRODUCTS

A new direction, the production of medical products , pipette dispensers and polymer tips for pipette dispensers , is being developed

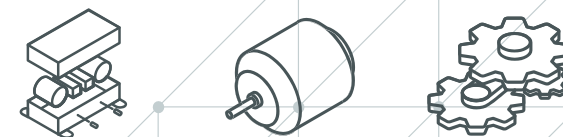
COMPANY PHILOSOPHY

Accuracy Reliability Service

- development of projects in accordance with technical specifications
- individual approach
- high quality
- compliance with standards
- 100% Russian product
- all the products are designed in collaboration with leading research institutes of Russia
- specialists of State Corporations Skolkovo, Roskosmos and Rosatom take part in the products designing and putting into the operation
- project financing by Industry Development Fund
- supported by Rostekh Group and the Ministry of Industry and Trade of Russia



100% domestic products and working in cooperation with the world's leading manufacturers



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HEALTHCARE PRODUCTS



PIPETTE DISPENSER

Dosing of liquids with high accuracy is a mandatory requirement for various methods of chemical and microbiological analyses.

The dispensers of Ulan-Ude Instrument-making Plant JSC are the best in their category.



Pipette dispenser is a dispenser for collecting and dispensing precise volumes of liquid. It operates on the principle of air displacement (i.e. there is a volume of air between the plunger and the liquid) in a disposable replaceable tip.



The dispensers are made of materials with high mechanical and chemical resistance.



STERILIZATION. The tip cone module can be autoclaved at 121°C (2 atm.) for 20 minutes. It is possible to use bags for sterilization, if necessary.



Production volume: 100 thousands units / year

TYPES OF PIPETTE DISPENSERS

TYPE

- Mechanical
- Electronic

CONSTRUCTION

- One-channel
- Multichannel (8-channel, 12-channel)



TIPS FOR PIPETTE DISPENSER (consumable material)



Plastic tips for dispensers 50-1000 pcs/set. Disposable and clean, sterile and non-sterile, usually used for laboratory analysis..



- Material: Polypropylene
- Color transparent, blue
- Quantity: 50-1000 pcs / set
- Size: 7.5 * 70mm
- Volume: 2,5, 10, 25, 50, 100, 200, 250, 500, 1000 μ l.



Production volume: 450 million units /
year
at maximum production load

TIP FOR PIPETTE DISPENSER
(consumable material)

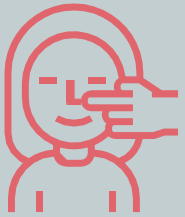
MAIN PRODUCT PARAMETERS

✓ Advantages

- The tips are made of pure polypropylene without impurities. The walls of the product are thin, transparent, protect from the effect of a drop.
- The tips have a built-in sealed connection ring, the diameter of which exactly matches the diameter of the holder in the pipette, so that the tip is suitable for a wide range of dispensers (the universal design of the product).
- Each package will have a quality certificate, color code for easy identification of each type of a tip.
- The tips can be autoclaved at a temperature of 121 C and a pressure of 1 at for usually 1020 min., which creates an effective protection against aerosol contamination.
- All tips are accompanied by a certificate of sterilization with the date of processing. Before sterilization, the tips are packed in a bag or tripod, which provides reliable protection against contamination.

	Sterile	Non-sterile
1	Polymer tip for pipette dispenser 1-20 µl. 5-100 µl. 5-200 µl. 50-1000 µl. Sterile, filtered, colorless	Polymer tip for pipette dispenser 1-50 µl. 5-300 µl. 50-1000 µl. Non-sterile, colorless
2	Polymer tip for pipette dispenser 1-50 µl 5-300, µl 50-1000 µl. Sterile, colorless	Polymer tip for pipette dispenser 50-1000 µl. Non-sterile, blue
3	Polymer tip for pipette dispenser 50-1000 µl Sterile, blue	

REUSABLE PROTECTIVE FACE SHIELD



Protects the mucous membrane of the eyes and respiratory organs from

- foreign bodies
- moisture particles
- spray
- viruses and pathogens



For greater protection, it is recommended to use it together with medical masks and gloves. It is used when visiting places of possible contact with people: shops, medical centers, parks, when communicating with customers at workplaces

Production volume: 100 million units / year

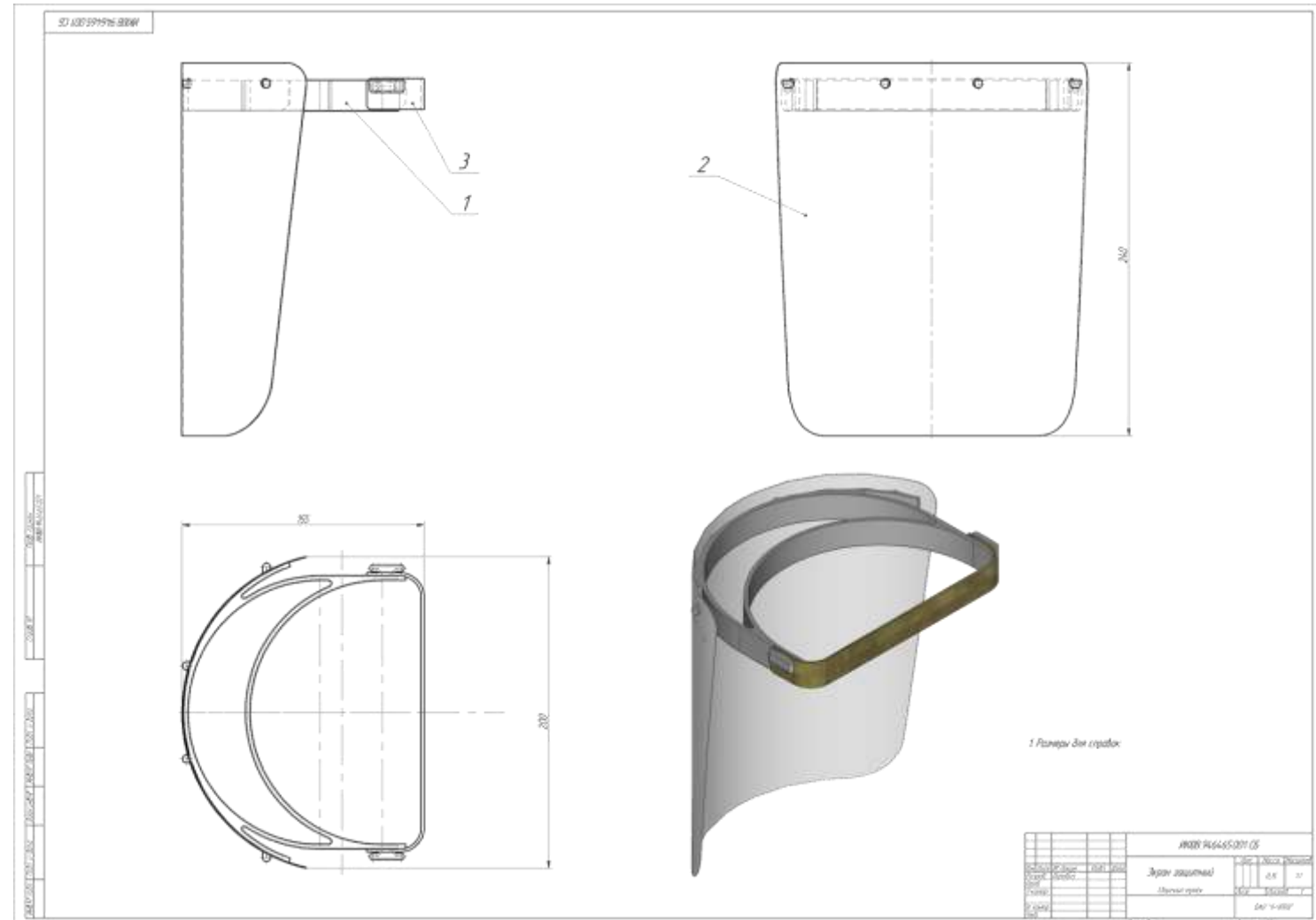


Each product can be equipped with replaceable screens

DESIGN FEATURES



- Specialists of the State Corporation Roscosmos took part in the development of the product.
- A clearly verified 3D model fully takes into account the anatomical features of a person. As a result, the rim of the screen perfectly matches the head of a person. The specialist does not feel discomfort even when wearing a protective screen for a long time.
- Specialists of the State Corporation Rosatom have developed an ideal nano-technological fully hypoallergenic composition of the material the protective screens are made of.



COMPLETE SET INCLUDES



- **SCREEN (FLEXIBLE GLASS)**
- **BODY-RIM**
- **ELASTIC BAND FOR FIXING THE PRODUCT ON THE HEAD**



PRODUCT ADVANTAGES



- Additional replacement screens (glass) can be purchased for each product.
- At the request of the Customer, the standard set can be supplemented with protective screens (glass) without a rim and an elastic band holder. Thus, during the working day, the replacement screens can be changed every 1.5 hours.
- The product case material is made of medical plastic (ABS-2020 TU6-05-1587-74). It does not cause skin irritation, allergies.
- The screen does not fog up when you breathe!
- The product can be worn with glasses.
- The product has long-lasting resistance to active use and repeated treatment with antiseptics
- The total weight of the screen is not more than 150 g.



Each product can be supplied with five replaceable screens

AIR OZONATOR series OB-0

OZONE is a gas with pronounced disinfectant properties.

It is 300 times more powerful than chlorine and is suitable for both air treatment and any surface treatment. It causes damage to the shell of many bacteria, viruses and fungi up to its destruction. The human body contains many antioxidants that prevent oxidative processes. Ozone differs from ultraviolet radiation in its ability to penetrate into any cracks, hidden cavities, filling the entire room.



AIR OZONATOR OB-0



The device is a modular flow-through ozonator of a closed type. The main advantage of the recirculator is its modularity. It can be equipped with one or two "ozonator" cartridges even during operation.

The product is intended for air disinfection in domestic and public premises. Air treatment is carried out indoors in the absence of people.



Disinfection of the air flow occurs during its circulation through the housing inside which the ozone generator cartridge is placed. Ozone has a pronounced antimicrobial effect on the entire spectrum of pathogenic microflora and is a universal, environmentally friendly, effective and cheap disinfectant.

THE MAIN ELEMENTS OF THE PRODUCT:

- composite housing (or aluminum + plastic)
- axial supply air blower designed for pumping air
- power supply
- special replaceable chambers (cartridges) that provide air ozonation
- LED instrument control unit (programmable time relay and operating mode indicators)

Production volume: 10 thousands units / year

DESIGN



OZONE CARTRIDGE (OZONATOR)



OPERATING PRINCIPLE

Special plates are installed in the cartridge, which are supplied with high-frequency currents (voltage up to 127 kV) that cause a barrier discharge generating ozone. The ozonator is capable of producing up to 10 g of ozone per hour that guarantees the sterilization of a room with a volume of up to 225 m³.

Technical characteristics of the ozonator

Overall dimensions: Ø127mm, length 499 mm, weight: 2.8 kg

Power: 100W

Voltage: 220V 50Hz

Lining material: AMCM aluminum

Fan capacity: 150 m³ / h

Ozone capacity: up to 10 g / h

Ion capacity: up to 100,000 ions / cm³

Treatment time: depends on the volume of the room and the mode of operation

Bactericidal effect: complete sterilization of pathogenic microorganisms in the room up to 225 m³

Ozone generator operating time guarantee: up to 9,000 h

Categories of premises in which use is recommended: I, II, III, IV and V categories (except for dusty ones and food production (additional filters are required in these cases))

APPLICATION AREAS

- Homes, offices, hotels, shops, gyms, hairdresser's
 - Car washes, car interior dry cleaning (cleaning of unpleasant odors);
 - Cleaning companies (indoor air cleaning)
 - Medical institutions, operating rooms (disinfection)
 - Catering enterprises (elimination of unpleasant kitchen odors, disinfection of toilets, freezers)
 - Kindergartens, schools (preventive air purification from viruses and bacteria, in particular *Staphylococcus aureus*, influenza, SARS, Covid)
 - Storage facilities
 - Air conditioners maintenance and repair services (cleaning of car air conditioning systems)
 - Transport companies with a fleet of refrigerator trucks (disinfection of cold storage rooms)
 - Disinfection enterprises
 - Greenhouses, vegetable stores
 - Premises intended for keeping birds and animals
 - Paint and varnish production;
- It can be installed in a ventilation system or indoors.

TABLE OF OZONATION PARAMETERS

Ozonation object	Ozone concentration, mg / m ³	Operating time not less than, hour	Effect
Microbes in the air and on surfaces	2	0,5	100% death
Bacteria and viruses in the air and on surfaces	15	0,5	100% death
Flying insects, including moths		2	Die in 13 days
Cockroaches, ants, fleas, ticks	12	once a week per 4 hours	Die after a while
Mice, rats	12	4	Die after a while
Mold fungi	30	1	Inhibits reproduction and growth
	1 500	1	Destroys vegetative forms
	20 000	1	Destroys spores
Chilled meat, fish	15	2 hours a day	Increases shelf life by 23times
Vegetables and fruits	10	1	Increases shelf life
Unpleasant odors	10	2	Changes the formula of the molecules and the smell disappears

CERVICES

We provide ozonation of

- WAREHOUSES
- PRODUCTION FACILITIES, WORKSHOPS
- TRANSPORT/GARAGES
- VEGETABLE STORES
- OFFICES , SHOPPING CENTERS, etc.

Commercial Service

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WAREHOUSES

INDUSTRIAL AIR RECIRCULATOR



The device is a modular closed-type flow recirculator. The main advantage of the recirculator is its versatility. It can be equipped with an ozonizer cartridge, a UV radiation cartridge and an electrofilter cartridge



These cartridges perform the function of air disinfection from pathogenic microorganisms, mold, fungi, viruses and bacteria, but with different methods of exposure and operating conditions. At the same time, the operator can adjust the number and type of cartridges by himself, depending on the operating conditions. The operator can also enhance a particular disinfection effect by installing several modules of the same type.

THE MAIN ELEMENTS OF THE DEVICE

- axial supply air blower
- power supply that regulates the power supply parameters
- special replaceable decontamination chambers (cartridges) where air is decontaminated by a well-controlled plasma source

Production volume: 10 thousands units / year



SPECIAL REPLACEABLE DECONTAMINATION CHAMBERS (CARTRIDGES)

PRODUCT ADVANTAGES



It is a unique development of Russian engineers



All materials and components for the product were developed in cooperation with the leading research institutes of Russia, the Skolkovo innovation center, thanks to which it was possible to create a compact, but productive and powerful air decontaminator.



Decontaminators of the Ulan-Ude Instrument-Making plant are installed in major Russian medical centers and other social facilities They help prevent the spread of COVID-19 in Russia.

PRODUCTS PRICE LIST *

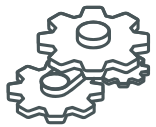
PRODUCT	WHOLESALE PRICE IN RUBLES (Including VAT)	RETAIL PRICE IN RUBLES (Including VAT)
Face protection screen	300* Batch of 100 pcs	360 Batch from 1 to 99 pcs
One-cartridge ozonator OBO-0-1	26 000* Batch of 20 pcs	28 000
Two-cartridge ozonator OBO-0-2	34 000* Batch of 20 pcs	36 000
UV one-cartridge recirculator-air sanitizer OB-Y-1	18 000* Batch of 20 pcs	20 000
UV two-cartridge recirculator-air sanitizer OB-Y-2	26 000* Batch of 20 pcs	28 000

* With a large wholesale, customers are provided with **special conditions and an additional discount**. The selling price is from the warehouse in Ulan-Ude without delivery to the Buyer's address.

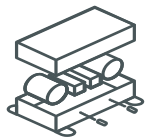
NB!

This presentation provides products that have been put into production or are at the stage of pilot batches production

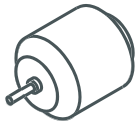
The company is ready



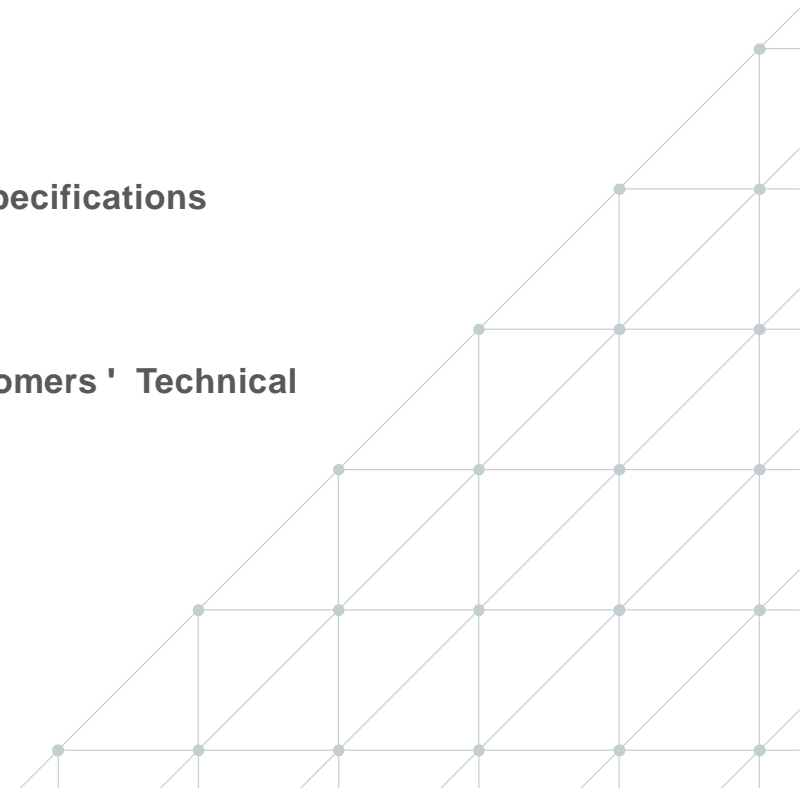
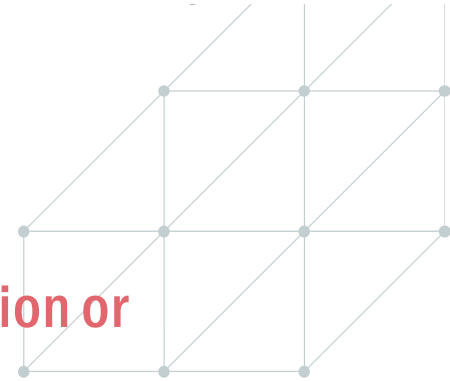
to master new products according to Customers ' Technical Specifications



to get funding under state programs to adapt products to Customers ' Technical Specifications and produce them



to get all the necessary permits



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