

Potok 150-M-01 standalone air decontamination unit

The Potok® air decontamination technology is a patented method for destroying any types of air-borne microorganisms and viruses (including coronaviruses) indoors. The technology is effective, which has been confirmed by the conclusions of leading Russian and foreign R&D establishments.

Air decontamination using the Potok® technology is achieved through affecting a microbial cell or the secondary and tertiary structure of virus macromolecules with permanent electric fields of a given orientation and intensity. The magnitude of electric field exposure is rated so that any micro-organisms and viruses are destroyed, regardless of species.

The technology is environmentally friendly. The equipment can be used around the clock in the presence of people and animals.

Potok® is the only air decontamination technology used aboard the International Space Station (Roscosmos and NASA segments).

The Potok® equipment reduces concentrations of microorganisms and viruses in the indoor air to minimum (background) values and maintains it at the level achieved. Live microorganisms and viruses are not accumulated inside functional decontamination units, which eliminates their instantaneous release after disabling and re-enabling the unit.

Air decontamination systems air produced by the Potok Inter scientific and production company, have no rivals in the market and provide a unique range of benefits including:

1. Minimum inactivation efficiency (integrity destruction) of microorganisms: 99.9%*.
2. Non-selectivity: destruction of all types of air-borne microorganisms, including bacteria, viruses, yeast, and mold.
3. Safety: around-the-clock operation in the presence of people and animals.
4. Cost-effectiveness: no consumable elements that require periodic replacement and time logging, low power consumption.
5. Reliability: automatic monitoring of microorganism inactivation effectiveness.
6. Durability: service life of the equipment is up to 10 years.

Technical characteristics:



Inactivation efficiency rate	≥99.99%*
Overall dimensions	860x630x1,715 mm
Weight	110 kg
Capacity	up to 900 m ³ /h
Recommended floor space	up to 300 m ² (ceiling height of 3 m)
Power supply from AC grid	220 V/50 Hz
Housing material:	steel
Energy demand	250 W
Warranty period	1 year
Consumables	not required

* По данным заключения Института биохимии и физиологии микроорганизмов имени Г. К. Скрыбина РАН.