Mobile decontamination generator - DECON Classic

General

The DECON Classic mobile decontamination generator is a stand-alone, ergonomically adjusted device for microbiological decontamination or disinfection of rooms. The device is characterized by the integration of the innovative PIO Flash® distribution system.

An ergonomic design and a stainless steel construction give special value to the device, which ensures mechanical and chemical resistance to external influences that occur during use and transport. The size, weight and shape of the device allow easy transfer between individual facilities for decontamination.

Operating principle

The DECON Classic generates a microbiologically highly efficient aerosol in a physically perfect way by pumping the decontaminant via the innovative PIO Flash® distribution system. The system ensures the generation of very small droplets, which are homogeneously distributed throughout the room due to their small size and very intensive distribution. The system works on the principle of a combination of the evaporating phase and very small drops of dry hydrogen peroxide mist. The location of the distribution system on the device together with its shape, inclination angle and duration of aerosol distribution in the room contributes to the optimal and even distribution of the decontaminant throughout the room. As the gaseous mixture of the agent passes into the smallest pores, the device thus enables the destruction of microbiological organisms even in the most hidden details of space.

DECON Classic is an innovative mobile device for microbiological decontamination of rooms.

- High microbiological efficiency (EN 17272:2020)
- Optimal distribution and achievement of hidden positions
- Reliable and quiet operation
- Ergonomic shape
- Easy to handle
- Ecological integrity

Clean visions.

PIO Flash®

CIS's Award for Best Innovation 2021

Use

DECON Classic is a portable version of an innovative decontamination generator, which must be properly installed in the decontamination room before use. The device needs to be connected to the mains for its operation. The control is performed via a power switch and a timer, in a digital or mechanical version. The time of distribution of the decontaminant is set. This depends on the size of the space, metrological and microbiological conditions in it. No staff may be present in the room during decontamination, they may return to the microbiologically cleaned room after the decontamination procedure has been completed. The aerosol form of hydrogen peroxide after a certain time decomposes into water and oxygen, which are natural, completely harmless and environmentally present molecules. This gives the process significant ecological value.

The decontamination agent is located in a plastic bottle, which is attached inside the decontamination generator with a special system. The movement of the device is done by precisely dimensioned wheels, which ensure that even higher obstacles (transport over stairs) can be managed. The appropriately selected material and the hardness of the wheels enable soft and quiet movement.

Due to its simplicity and efficiency, DECON Classic is suitable for decontamination of small rooms in pharmacy, medicine and healthcare, as well as in hotels, restaurants, nursing homes, office buildings, cars, trains, planes and all other places where it is necessary to ensure an adequate microbiological level of purity.

Specifications

Device/Type	DECON Classic DGM-250-M	DECON Classic DGM-250-D
Outside dimensions H x W x D [mm]	870x460x300	
Weight (without agent) [kg]	26	
Distribution system	PIO Flash®	
Operation	Mechanical timer	Digital timer
Operating time [min]	Up to 30 (accuracy 1 min)	Up to 30 (accuracy 1 s)
Place volume for disinfection [m^3]	Up to 280	
Drop size [µm]	0 – 12	
Power supply [V/Hz/kW]	230/50/0,8	
Length of access cable [m]	5	
Noise level [dB]	75	
Disinfectant consumption [g/min]	60	
Decontamination agent	Different concentrations based on H_2O_2	
Reduction of microorganisms	Up to Log 6	
Container of decontamination agent	Plastic bottle 5L	
Material housing	AISI304 (1.4301), Ra ≤ 1,2 µm	

DGM-250-M

DGM-250-D

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Iskra PIO d.o.o.
Trubarjeva cesta 5
Si - 8310 Šentjernej
+386 7 3931 400
info@iskra-pio.si
www.iskra-pio.si