

AV Sanification – Design and manufacture of sanitisation devices

AV OZONE SANI BOX SMART (cod. AVSBOXS)

Technical data

Box structure: wood - stainless steel - aluminum - plexiglass
Generator: closed cell (tube) aluminum/ceramic/stainless steel
Ozone production capacity: 10 g/h
Concentration at the dispensing point:> 50 ppm
Functions: vacuum sanitization of furnishings and equipment
PLC: on-board computer with 7 "touch-screen video
Certification system: Report production
Data storage system: database creation
Data export system: USB / network
Noise: <40dB
Power and voltage: 400W
Operating voltage: 220V - 50Hz
Operating temperature: 5 ~ 40C
Standard box size: 250 x 120 x 120 cm
Optional box size: tailored according to needs



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Professional Ozone generator with a production capacity of 10 g/hr combined with special cabins for sanitisation and deodorisation using vacuum technology for devices, furnishings and equipment, such as stretchers, beds, anti-decubitus beds, wheelchairs, mattresses, reusable medical devices, etc.

The furnishings to be sanitised are placed inside the special cabins in which the machine extracts the air and creates the negative pressure. At the end of the first phase, the generator produces and feeds Ozone into the cabin until the necessary concentration is reached (expressed in PPM). Subsequently, the machine filters the excess Ozone contained in the cabin and decomposes it through a special high-efficiency catalyst. Finally, the device rebalances the internal pressure to allow the cabin to open.

At the end of the procedure, the objects contained in the box can be used immediately in complete safety. The amount of Ozone to be used and all process steps are managed automatically by the device computer. The design and materials of the cabins, together with the internal safety mechanisms and the depressurisation that is carried out inside, prevent accidental spillage of Ozone into the outside and guarantee the safety of operators and the full usability of the premises during treatments.

The control software has two levels of access (administrator/operator) to distinguish responsibilities and provides password authentication. This allows you to identify the operator who performs the treatments, as well as the date and time of all the activities. By means of an optical barcode reading device and a manual description entry system included in the control software, the system is able to identify the individual objects that are introduced inside the boxes, so as to issue automatic reports of each sanitisation activity, allowing it to officially certify the date, time, operator name, number and identification code/description of the objects treated, etc. The device is also equipped with integrated Ozone, Relative Humidity and Temperature sensors. The certified report generated by the machine therefore also contains all the environmental parameters (temperature, humidity and Ozone concentration reached) required by the Italian Istituto Superiore di Sanità [Higher Health Institute] for a sanitation protocol to be certified by Public or Scientific Bodies.

The reports produced are stored in an electronic database that can be saved and exported to other devices (e.g. PC) via a portable USB memory, and can be printed at the end of each treatment using a thermal printer integrated into the device.

The cabins can be made in different shapes and sizes depending on the type of furnishings to be sanitised.