



VALDO
TECHNIC



SALUS

**Automatic Air and
surface Disinfector**

"SALUS" is a world first and not a simple air purifier that you can find anywhere and only use an air filter or UV lamp!

Fully automated, we atomize a highly safe liquid an aqueous and pH neutral solution of "chlorine dioxides". Chlorine dioxide is used daily in our drinking water treatment! For humans, chlorine dioxide is completely harmless. Chlorine dioxide is approved and tested in the EU.

With Salus you can achieve that the air in a room is not only circulated and filtered through the device, but **we inject/atomize chlorine dioxide into the room air** and thus immediately creating a natural oxidation process that neutralises all pathogens. This has been scientifically proven!

This technology has been safely used in industry for a long time, but there are no machines on the market in a mobile and, above all, fully automated form, which are suitable for both air and surface disinfection and which does not produce dangerous gases, such as ozone, during operation.



Why is automation important? Because no trained specialists are needed for the operation of the machine!

The way the machine works is a unique cleaning process: Both the water and the air that enters the machine are subjected to a serious cleaning process. The water is first mechanically filtered with a 1 micron filter, then it is decalcified. The air enters the machine through a 3-phase filtering: (pre-filter, then a 16.5 sqm HEPA 13 filter and finally it is illuminated by 3 pieces of 55W Philips UVC lamps with reflection technology.) Humidification is carried out by using the prepared filtered air and clean water.

What is chlorine dioxide - how does it work?

First, the most important information: chlorine dioxide, is NOT chlorine!!" They are different both in their molecular construction and their effect.

The use of chlorine dioxide is safe, because when the molecule encounters any other molecules (virus, dust, pollen, etc.), then it reacts with it and decomposes. Its action is based on the natural oxidation process, after this reaction the chlorine dioxide decomposes into small amounts of oxygen, kitchen salt and water, therefore it is biodegradable.

We atomize 0.3 mg chlorine dioxides per m³ per hour (0.1ppm/m³/hour = ppm), immediately creating a natural oxidative effect for air purification. It "oxidizes air pollutants" Chlorine dioxide is not a poison! It is non-aggressive, non-acidic, and PH-neutral. (It does not corrode any objects such as furniture & electronics) This amount is so small that there are only a few laboratories in Europe that can detect this value in the indoor air.

The value used by us is regulated, tested, scientifically proven and approved by law for air purification!

All devices have an official safety certificate and certified laboratory tests that prove the effectiveness of the device.





Humans and animals can be **safely** present during atomization. Our devices are tested and approved and all have a declaration of safety.

We dose with high precision, in laboratory quality!

Chlorine dioxide is atomized for an hour. The dosing cycles are divided into 10 phases during this hour in order to achieve an even distribution of chlorine dioxide in the room. After that, the atomization pauses for an hour. During this time, the room air is guided through the HEPA filter and the 165W strong UVC light. After that, the atomization is started again.

The reliable chlorine dioxide dosing is guaranteed by a magnetic diaphragm pump, which can dispense the set dosage with laboratory accuracy. (22 bar pump, 0.15mm Ø high pressure nozzle)

At night, the atomization of the amount of chlorine dioxide can be increased threefold. This means that all surfaces are reliably disinfected, even the smallest corners, without any cleaning personnel.
(During this process, no people may be present in the room)

No reason to worry, the white steam coming out of the pipes is only dry water vapor (3-5 micron size) and in which we add chlorine dioxide in 10 phases/hour.

Salus combines 7 applications in one device.

- Pre-filter and HEPA filtration with high-performance fan (1600 m³/h), and speed control. Quiet operation 36-66 dB. Recommended maximum room size 750 m³
- UVC light sterilization. 3 x 55Watt.
- Air purification chlorine dioxides.
- At night chlorine dioxide surface disinfection.
- Application possibility for air humidification with temperature display.
- Aromatherapy
- NDIR intelligent CO₂ sensor. With this we can find out how polluted the air is! This is also a very important factor in determining air quality.



Air humidification mode:

Humidity is very important for our health and well-being. The drier the air, the lighter it is, so pathogens can float in the air for a longer time.

There is a so-called recommended average of 40-60% humidity (RF) of the room air. You should set the humidity setting on the device to at least 40%.

System performance: approx. 3.6 litres/hour. (depending on the ambient temperature)

CO₂ (carbon dioxide) sensor:

The higher the carbon dioxide concentration is in the indoor air, the worse the air quality is. Please ventilate the room when the CO₂ value rises! (Important: Please note that the device cannot influence the CO₂ value!)

Sizes (Width x Depth x Height): 54 x 55 x 105 cm **Weight:** 50 kg

For more information: www.valdo-technic.com/download



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Valdo Technic Industrial Solutions Kft

☎ +36 20 468 2510

✉ info@valdo-technic.com

🌐 www.valdo-technic.com