Hydrogen Peroxide Vapour Generator – Puriter

Surface sterilisation ensured by our own patented method of vaporization using hydrogen peroxide liquid.
For operation of equipment the following must be ensured:
- Pressurised air
- Electric power supply
**Description**

Puriter is designated for the sterilisation of interior surfaces utilising liquid hydrogen peroxide. The whole process is performed with patented BLOCK® technology.

- **Applications**
  - sanitation, disinfection
  - sterilisation
- Inside surfaces of closed boxes (e.g., isolators and pass through cabins)
- Inside surfaces of rooms
- Uses hydrogen peroxide 30%

**Features**

- Operation via a touch screen with program selection and intuitive controls
- Control system: SIEMENS touch panel, TP700 Comfort
- Structural material: AISI 304 stainless steel, FIN8 grinded surface
- Air supply compression method
  - There must be a compressed air supply point available at installation site
- Our vapour generation process runs under normal temperatures (around 25 to 30 °C) and with normal pressure
- It does not leave any toxic residues as hydrogen peroxide decomposes to oxygen and water following decontamination
- The device is mobile = surfaces in various places may be decontaminated
- It can be connected to more devices by means of a DN50 triclamp
- Option to integrate the device into an isolator or decontamination chamber

**Standards**

**HMI panel**

**Overview of Functions**

- **01** Navigation buttons
- **02** User login
- **03** Puriter (device) status
- **04** Parameters

The Puriter control system is operated with a Siemens colour touch screen. The Simatic control system from Siemens creates an intuitive and user-friendly experience. The screen displays the actual parameters of the environment and monitors emergency statuses. The system includes remote access for operator support.
Standards

Humidity measuring sensor - Rotronic

This sensor is very important for controlling process decontamination. Rotronic is an accurate and high-quality product, resistant to hydrogen peroxide vapours.

$\text{H}_2\text{O}_2$ concentration measuring sensors - Drager

Sensors for low and high concentrations of hydrogen peroxide vapour are used to maintain control of the decontamination process and ensure safety.

Remote control system

With help from the Smart Client application remote access of Puriter via mobile phone is possible. Puriter has built-in wi-fi which the user may connect to. After establishment of a connection the Puriter Control Panel interface can be accessed on your mobile phone enabling complete remote access and control.

Standard Decontamination Cycle

VHP concentration in air

More

Relative air humidity

start target: typically 30-50%

Condensation point

100%

Less

Cycle phase

Desumidification - target 30-50%

Condition

Decontamination with $\text{H}_2\text{O}_2$ vapours

Aeration

Relative air humidity

0%