



TECHNICAL
SHEET

VAPORIZED HYDROGEN PEROXIDE
GENERATOR – PURITER

PURITER SPECIFICATIONS

Hydrogen peroxide vapour generator - PURITER (VHP generator) is designed for sterilization of internal surfaces by evaporation of liquid hydrogen peroxide.

Mobile equipment for decontamination of rooms and multiple facilities. Possibility of integrating the device into our isolators or interlocking booths.

Application

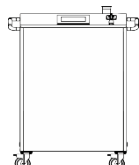
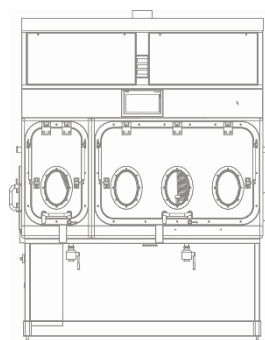
- Interior surfaces of closed boxes (e.g. isolator, interlocking cabin)
- Interior surfaces of rooms
- Hygiene, disinfection
- sterilisation

STANDARDS AND CERTIFICATIONS

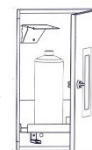
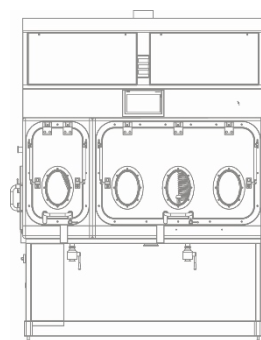
Our production processes and products comply with international standards ISO 14937, GMP guidelines (EudraLex Volume 4), ČSN EN ISO 14644-7 standards, and other regulations, ensuring the highest quality and safety.

VARIANTS

1. Developer for equipment - INTEGRATED	e.g. into an insulator, interlocking cab
2. Developer for equipment and rooms - EXTERNAL	with manual control , without communication with the higher-level system
3. Developer for equipment and rooms with a higher-level system - EXTERNAL	communication with the master system via Modbus TCP/IP
4. Developer for devices and rooms with the parent system - EXTERNAL	communication with the higher-level system via Modbus RTU



External



Integrated

TECHNICAL PARAMETRY

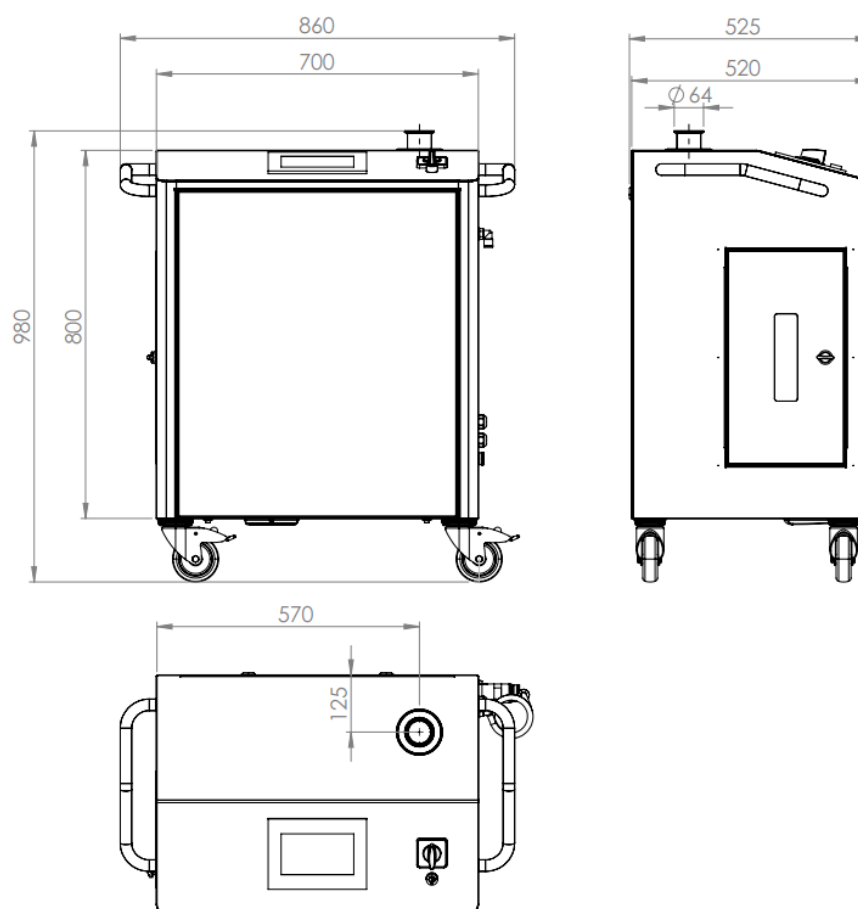
Product name	Hydrogen peroxide vapour generator - PURITER (VHP generator)
Product type	YVP
Dimensions (WxHxD)	860 x 980 x 525 mm
Equipment weight	approx. 85 kg
Air flow rate	50 m3/h
Electrical system	L+N+PE / TN-S-230 V / 50 Hz
Total installed power	2.2 kW
Coverage	IP54/IP20 - operator/others
Construction material	AISI 304 stainless steel, SB brushed finish

DIMENSIONS

Width: 860 mm

Height: 980 mm

Depth: 525 mm



REQUIREMENTS FOR CONNECTION

Compressed air	Purity according to ISO 8573.1 (1-3-1) pressure 6 bar supply 30-50 m ³ /hour
Electrical supply	Power supply: L+N+PE / TN-S-230 V/50 Hz Power input: 2.2 kW
Data communication: Modbus RTU	Harting address socket with defined address for variant 4
Data communication: Modbus TCP/IP	Ethernet data socket on the same network as the control device for variant 3
Sensors	Temperature and humidity

STANDARD EQUIPMENT

	1. Developer for the device - INTEGRATED	2. Developer for equipment and rooms - Manual EXTERNAL	3. Developer for devices and rooms - ModbusTCP/IP EXTERNAL	4. Developer for devices and rooms - Modbus RTU- EXTERNAL
Connection hose DN50 for hydrogen peroxide vapour extraction including clamp connections (clamp DN50 with plate diameter 64 mm, stainless steel AISI 304)		✓	✓	✓
Spiral hose with diameter 12 mm (outer diameter) for connection to the compressed air system		✓	✓	✓
Quick coupling terminated with G1/2 male thread		✓	✓	✓
Communication via Modbus - RTU Communication cable with Harting connector for connection to the address socket				✓
Communication via Modbus TCP/IP Ethernet cable		✓		
HMI panel SIEMENS touch screen, Simatic control system	✓ *	✓	✓	✓

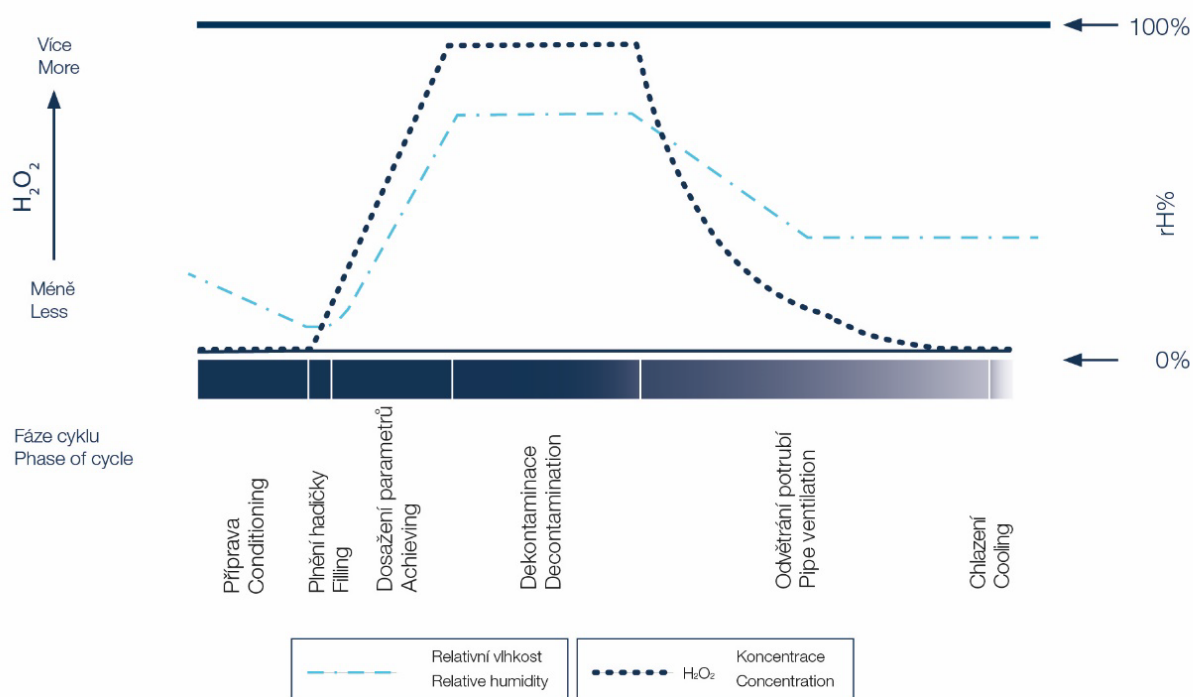
* control from the device panel where it is integrated

DECONTAMINATION



- **35% hydrogen peroxide.**
- **Tensometric weighing** of the amount of peroxide in the canister.
- **Canister up to 5 l.**
- The decontamination process takes place **at normal temperatures** (25 to 30 °C) under **normal pressure**.
- Surface decontamination of the embedded material and a **reduction of the biological load** by 6 orders of magnitude (10^{-6}).
- **It leaves no toxic residue** as hydrogen peroxide decomposes into oxygen and water after

STANDARD DECONTAMINATION CYCLE



ACCESSORIES AT AN ADDITIONAL COST

We offer **Dräger** and **Rotronic** sensors.

Essential for measuring various physical quantities in environments where accuracy, reliability and safety are important.



- **H₂O₂ concentration measurement sensor – Dräger.**
Sensors are used to maintain control of the decontamination process and ensure safety.
- **Temperature and humidity sensor - Rotronic.**
This sensor is very important for controlling the decontamination process. The Rotronic is an accurate and high quality product that is resistant to hydrogen peroxide vapor.