

TIMOTEC



PURITER

**Vaporized Hydrogen
Peroxide Generator**

Hygiene Disinfection

PURITER - VHP generator - is designed to sterilize interior surfaces by vaporizing liquid hydrogen peroxide. The entire process is carried out using patented technology.

The device generates **hydrogen peroxide vapors**, which are distributed into the sterilized space through a special piping system or directly into closed boxes or isolators. Hydrogen peroxide vapors effectively destroy bacteria, viruses, spores, and mold without damaging the sterilized materials. After the process is complete, the hydrogen peroxide decomposes into water and oxygen, which is an **environmentally friendly solution**.

STANDARDS AND CERTIFICATIONS

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





PURITER

HYDROGEN PEROXIDE

An FDA-approved antibacterial agent at a 35% concentration that swiftly oxidizes the cell walls of microorganisms, thereby neutralizing them.

LOAD CELL WEIGHING

This allows the current weight of hydrogen peroxide in the tank or dosing device to be determined very accurately.

STORAGE CAPACITY UP TO 5L

DECONTAMINATION PROCESS

The decontamination process takes place at standard temperatures (25 to 30 °C) and standard pressure.

INTUITIVE OPERATION

Using the SIEMENS touch screen with program selection.

CONSTRUCTION MATERIAL

Stainless steel AISI 304, polished surface SB.

DATA COMMUNICATION

VIA PROFINET Modbus TCP/IP, Modbus RTU.

STANDARD EQUIPMENT

CONNECTING HOSE DN50

for removing hydrogen peroxide vapors including clamp connections (clamp DN50 with a 64 mm diameter plate, stainless steel AISI 304).

COUPLER

ending with external thread G1/2.

HMI PANEL SIEMENS

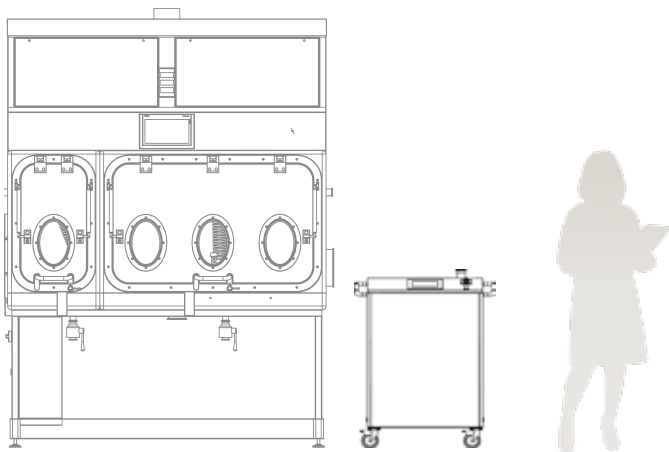
touchscreen, control system Simatic.

SPIRAL HOSE WITH A DIAMETER OF 12 mm

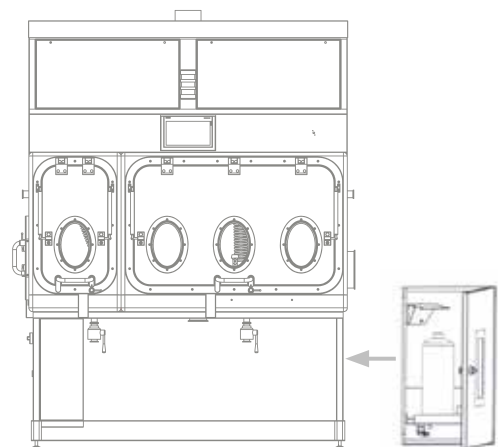
for connection to a compressed air system.

DOOR

for replacing the peroxide supply with a window for checking the H_2O_2 level.



EXTERNAL - Generator for both equipment and rooms (manual or with a superior communication system)



INTEGRATED- Generator for equipment (e.g., isolator, pass-through cabinet)

ADVANTAGES



- DRY TECHNOLOGY
- SUITABLE FOR USE AROUND CORROSION-SENSITIVE MATERIALS

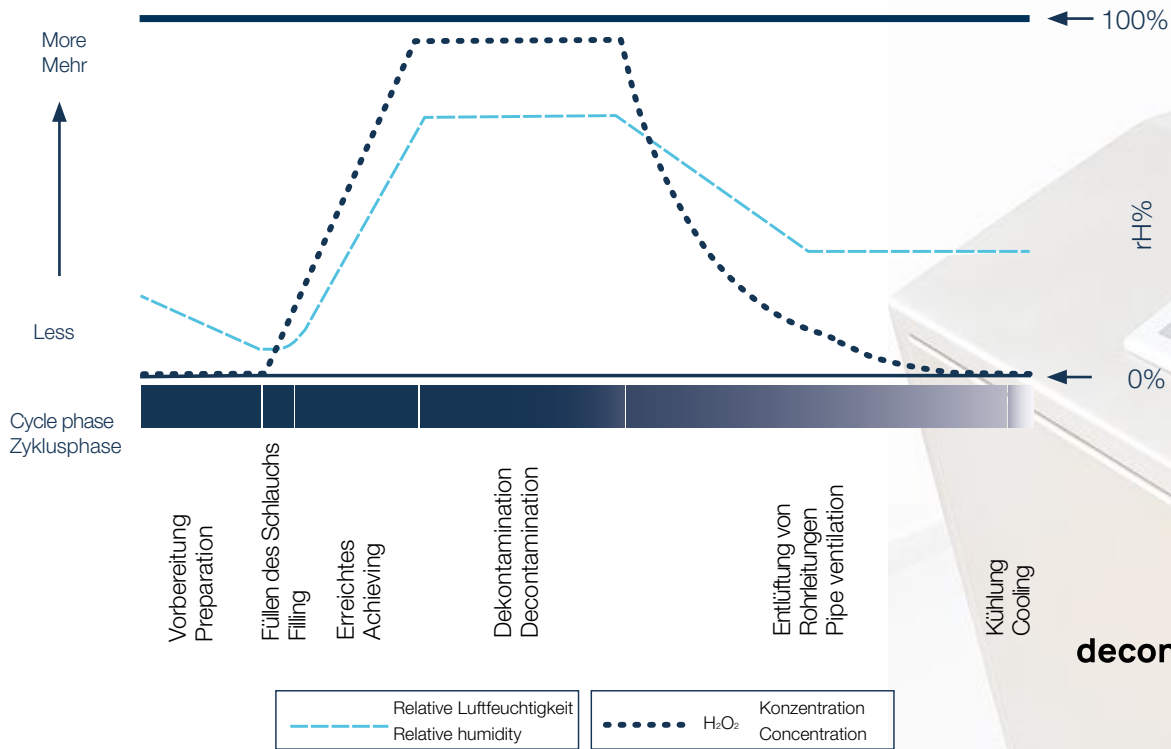


- HIGH EFFECTIVENESS AGAINST A WIDE RANGE OF MICROORGANISMS
- SHORT STERILIZATION TIME
- GENTLE ON MATERIALS AND THE ENVIRONMENT
- WELL-PROVEN TECHNOLOGY
- SAFE FOR USE IN PATIENT CARE



- PROCESS AUTOMATION AND MONITORING

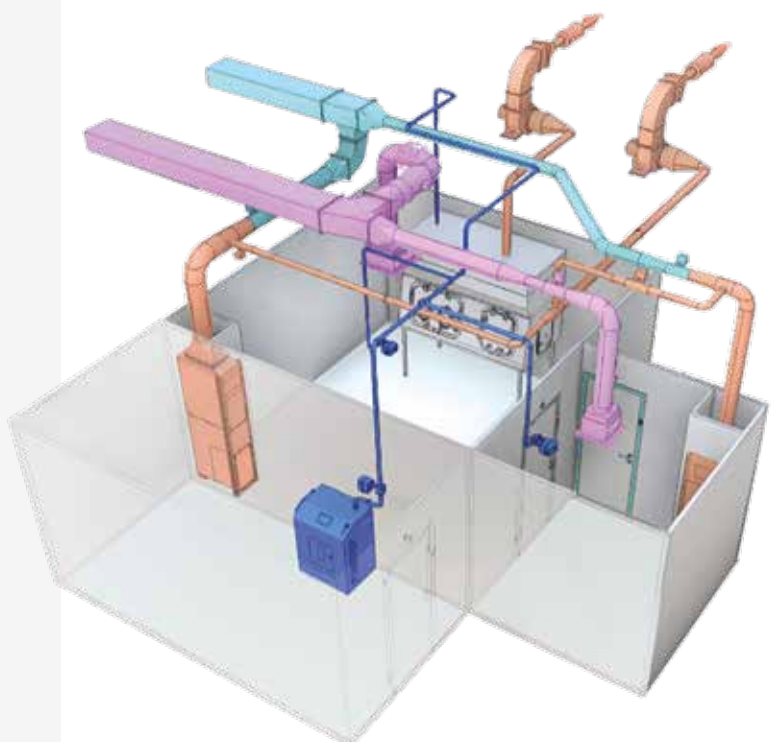
DECONTAMINATION



INTEGRATED DECONTAMINATION SYSTEM FOR BUILDINGS AND FACILITIES

Puriter is a part of complex systems for decontamination of buildings and facilities.

These systems are used, for example, in healthcare, pharmaceuticals, industry, research, and critical infrastructure.



APPLICATION AREA



Microbiology

Sterilization of workspaces and equipment.



Biotechnology

Disinfection of laboratories and incubators.



Pharmacy

Sterilization of isolators, production rooms, warehouses, and facilities.



Research

Cleaning of premises and equipment in research facilities.



Healthcare

Decontamination of rooms, sterilization of medical equipment, isolation boxes.



Academy and Science

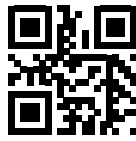
Use in biological and chemical laboratories.

Dry Fog from TIMOTEC

**Alternative
decontamination
product PERFOG**

- AEROSOL TECHNOLOGY
- SIGNIFICANTLY LESS TIME-CONSUMING
- MINIMIZED H_2O_2 CONSUMPTION
- NO STRICT ENVIRONMENTAL CONDITIONS REQUIRED
- SUITABLE FOR ENVIRONMENTS THAT ARE NOT OVERFLOWING WITH OBJECTS OR EQUIPMENT
- LOWER FINANCIAL INVESTMENT
- LOWER PERFORMANCE

TIMOTEC



www.timotec.eu

TIMOTEC processes with TÜV SÜD Certification:

ISO 9001:2016

ISO 14001:2016

ISO 45001:2018 (OHS)