

H₂O₂-Lock

The new H₂O₂ material lock by Ortner is suitable as cleanroom-compliant decontamination system for aseptic introduction or for introducing heat-sensitive material.



Cleanliness
made in Austria

The fast and gentle surface decontamination with gaseous hydrogen peroxide operates fully automatically. The innovative nozzle system accelerates the gas inlet and outlet as well as the gas distribution within the chamber. The lock can be installed as a continuously drivable version or as a variant on an existing floor. Different loading systems facilitate daily handling in the lock area. The lock can be easily operated via a touch panel with an intuitively structured user interface. All lock processes are graphically visualized and displayed in clear text on the HMI.



Ortner Plus

- Easy integration planning due to standardized compact design
- Factory-qualified systems including a decontamination test run conducted at the factory
- Integrated, pneumatically operated H₂O₂ generator for safe and stable decontamination processes
- Simple seal replacement without the need for door removal
- 5-liter H₂O₂ containers for multiple cycles
- Extendable technical area for easy maintenance and calibration work
- Split design with a plug/in system for easy installation, especially for complex installation situations.

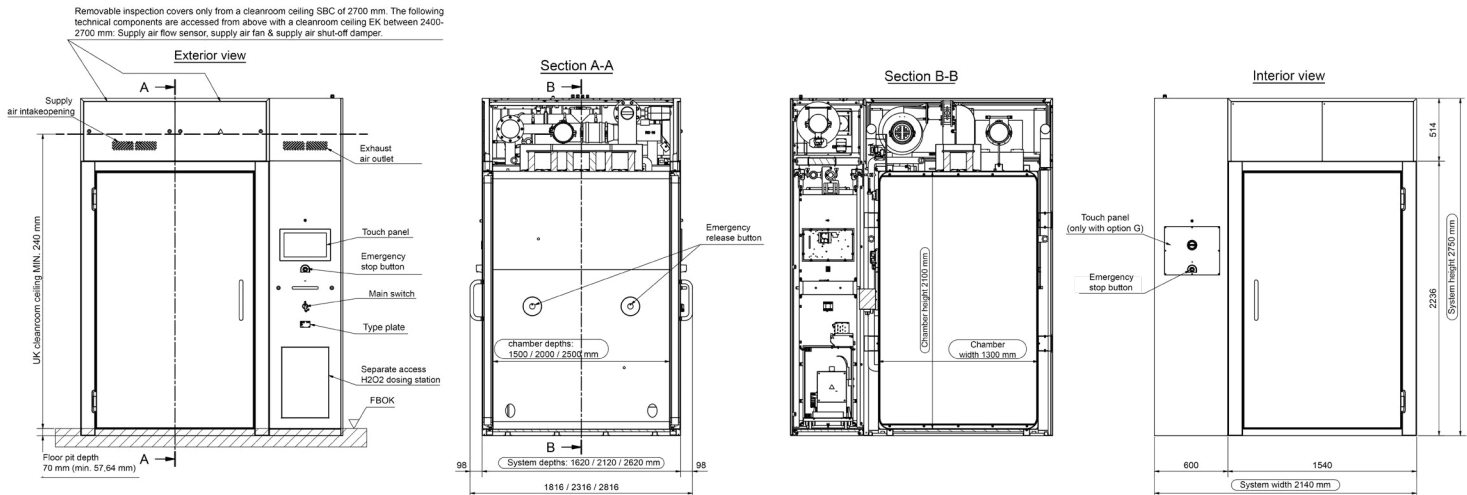
**REINHEIT UMWELT
INNOVATION**

H₂O₂
Hydrogen peroxide
(H₂O₂)



H₂O₂-Lock

The H₂O₂ material lock is a powerful decontamination system for the safe introduction of goods, materials, and equipment. The environmentally friendly H₂O₂ technology allows for almost unrestricted application in material-preserving lock processes.



STANDARD SIZES IN MM (WXHXD)		
SG-1	2140x2750x1620	1300x2100x1500
SG-2	2140x2750x2120	1300x2100x2000
SG-3	2140x2750x2620	1300x2100x2500

SENSOR TECHNOLOGY - BASIC EQUIPMENT

- HC Sensor – Process monitoring
- LC Sensor – Monitoring of threshold limit values (MAK) at 3 measurement points
- Air Velocity Sensor – Supply air flow rate
- Differential Pressure Sensors – H14 filter monitoring

ADDITIONAL OPTIONS

- LC sensor (room monitoring)
- Automatic door drive
- Rail system
- Collision protection
- Schuko power socket
- Remote maintenance
- Audit trail
- Building ventilation connection

COMMUNICATION INTERFACES

- Potential-free contacts for
 - General fault (Out)
 - Emergency stop confirmed (Out)
 - H₂O₂ process "active" (Out)
 - Emergency release confirmed (Out)
 - Fire alarm signal (In)
 - General fault message (In)
 - External emergency stop (In)
- OPC-UA
 - Ethernet

PERFORMANCE DATA	
Power supply	400 VAC / 50 Hz / 16 A
Max. supply air flow rate	650m ³ /h
Lock Chamber Tightness	Class 4 (DIN EN ISO 14644-7:2004)
Material of outer cladding	Stainless steel AISI 304, brushed surface
Material of inner chamber	Stainless steel AISI 316
Surface of inner chamber	Brushed surface; Ra < 0.8µm
Material door frame	Natural anodized aluminum
Door material	ESG glass 2x6mm
Door seal	Pneumatic
Maximum noise level	< 67 dB (A)
Supply air filtration technology	H14 Easy Change
Supply air filtration technology	H14 cassette filter
H14 filter DEHS test connections	Yes
Chamber differential pressure control	- 60 to + 60 Pascal
Control unit	Siemens S7 (Safety)
Optical signaling	RGB-LED
Acoustic signaling: Alarm buzzer	Outside 1x HMI 15", inside 1x sensor button with segment display
H ₂ O ₂ -reservoir	5 liters
H ₂ O ₂ -concentration	35%
H ₂ O ₂ pump rate	1-10 grams
Recipe storage space	20x time-controlled; 5x dynamic