CEPRO®

LEADING IN WELDING SAFETY

UniSonic Laser booth system

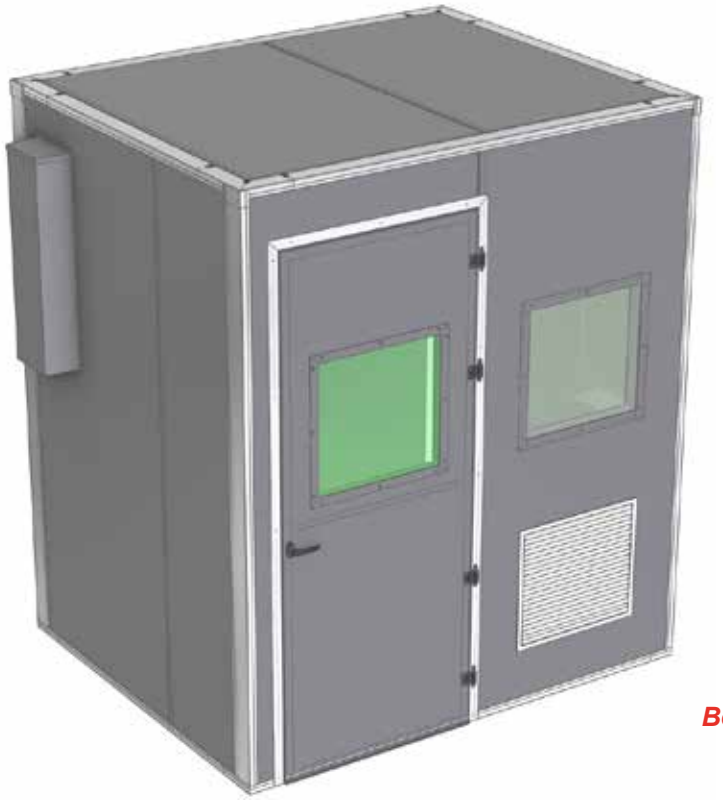
Large, closed working booths for laser welding use

Classified according to the IEC 60825-1 standard

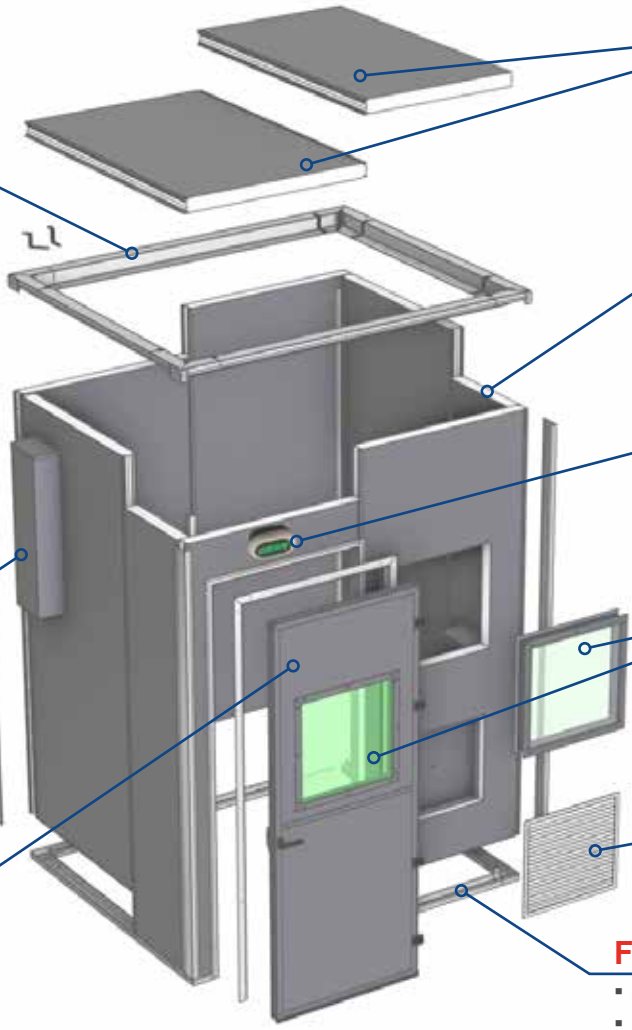
- For class 4 laser use
- Large enclosure sizes
- Easy to build
- Multiple modular options

Version 24.01.V01 EN

MAIN FEATURES



Booth dimension 245 x 170 cm, x 270 cm



Roof panels
- Easily mounted into the roof frame

Roof frame
- Easy fitted roof panels
- Roof panels are recessed into the frame

Sandwich panel
- Sound insulated
- Thickness 80mm

Corner profile
- To create a 90° angle
- Achieve a sleek and polished appearance

Interlock system
- With LED warning signs
- Robust fail safe system

Laser filter Window
- Double-glazed safety glass
- DIN EN 60825-4:2011

Air inlet
- In preparation for an external air extraction system

Air intake
- Sound insulating grille
- Flexible wall placement

Entrance door
- Left or right opening option
- Fitted with window and lock

Floor profiles
- Sturdy mounting walls
- Easy to install and cut to size

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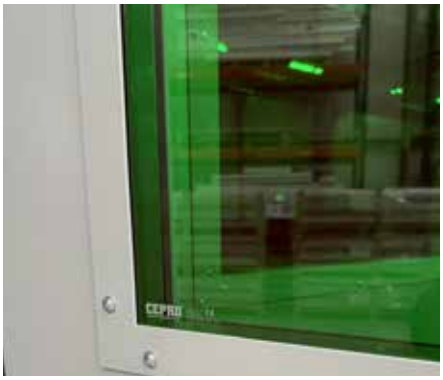
SPECIFIC LASER FEATURES

- Entry doors are equipped with a robust fail safe interlock system, with LED warning lights
- Pilz door sensor
- Laser filter window DIN EN 60825-4:2011
  wavelength range 897-960 nm - 124 kW/m² - T2
  wavelength range 960-1190 nm - 166 kW/m² - T2
- Control box with manual reset button
- Air inlet, labyrinth gaps and grid

USPs UNISONIC ELEMENTS

- Easy to design and build with minimal components
- Competitively priced within the standard configurations
- Available from stock to minimize delivery times
- Excellent price-to-quality ratio
- Multifunctional: suitable for use in a variety of workplaces
- Seamless installation via a tongue & groove system
- Easily add windows, doors, air-inlets, etc



OTHER APPLICATIONS

- Spray booth
- Grinding booth
- Storage
- Temporary office space

SPECIFICATIONS

- Manufactured from EPS with steel sheeting
- Thickness 80 mm
- Colour RAL 9006
- Weight 10.4 kg/m²
- Link panels with tongue & groove system
- Standard heights 270 cm or 390 cm

IMPORTANT USER INFORMATION

Preconditions

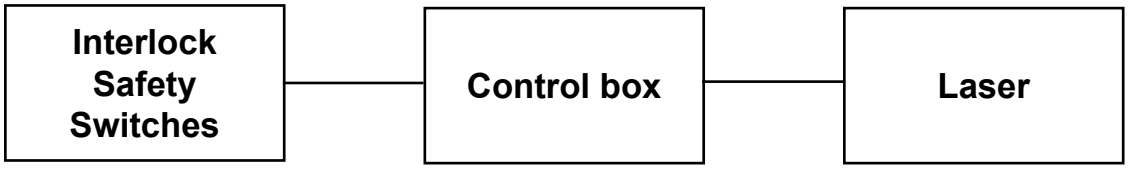
It is the responsibility of the end-user, who will provide, in all cases the laser hand-held laser welding source, that this is a laser class 4 product and complies to EN IEC 60825-1:2014 with respect of laser safety engineering precautions.

- Hand-held laser welding source must:
  - CE compliant
  - Laser source engineering precautions according to class 4 of EN IEC6025-1:2014
  - Laser wavelength between 897– 1190nm
  - Maximum average laser power of 2.5kW
- Employer / end-user responsibility to incorporate the use of this laser hand-held welding enclo sure into the company laser hazard and risk assessment
  - Laser safety instructed laser hand-held welding operator
  - Correct use of laser safety personal protective equipment (eyewear and clothing)
- The handheld laser weld torch should not be aimed directly at the enclosure walls or laser safety filter windows in the doors.
- The users should inspect the internal enclosure walls and laser filter window for discolorations on a regular bases.

The end-users class 4 laser source must be connected through its remote interlock connector to the internal Uni-Sonic laser booth's laser safety circuit. The result is that laser can only operate when this laser safety switch is activated, and the door is closed, which simultaneously controls the warning text outside.

It is the responsibility of the end-user, who will provide, in all cases the laser hand-held laser welding source, that this is a laser class 4 product, which complies to EN IEC 60825-1:2014 with respect of laser safety engineering precautions. This includes, the manual reset, key control, the emission waring and the e-stop on the laser weld equipment.

<u>Safety interlock in protective housing / remote interlock</u>
The entry door is equipped with a robust fail-safe (PLd), interlock.
Pilz sensors – safety component MN207S
An activated interlock results in the termination of laser radiation / manual reset present inside the Uni-Sonic Laserbooth.



The end-user is responsible for correctly connecting the interlock system, the control box, and the laser.

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IMPORTANT USER INFORMATION

User Manual

The following information must be present in the user manual:

- Adequate instructions for correct assembly, maintenance and safe use, including clear warnings concerning precautions to avoid possible exposure to hazardous laser radiation.
- A description of all radiation that is above the Class 1 AEL, including wavelength and maximum power.
- For embedded laser products and other incorporated laser products, information to describe the incorporated laser.
- Legible reproductions of all required labels and hazard warnings to be affixed to the laser product. The corresponding position of each label shall be indicated.
- A clear indication in the manual of all locations of laser apertures through which laser radiation in excess of the Class 1 AEL is emitted.
- List of controls, adjustments and procedures for operation and maintenance, including the warning “Caution – Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure”.

In case of breakage or other damage to the walls, door, or windows, the damaged part must be replaced immediately. Until then, all work must be halted.

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