

STAINLESS STEEL TIG WELDING CHAMBER



- TIG welding in pure argon
- No additional gas protection necessary
- Simple welding of complicated structures
- Low gas consumption
- Easy handling
- · Robust and sturdy construction for every day use
- Mobile, can be carried to different work places
- Ready for welding within 10 ppm oxygen in about 10 minutes
- Easy manual operation
- Side door ø250 mm
- Bench top system



Basic equipment

- Stainless steel welding chamber with box wide window made of safety glass. No contamination through poly carbonates.
- Fast start up. Oxygen level blow 10ppm within about 10 minutes with a purge flow of 300l/min.
- Gas consumption: About 3m³ for start up, after that 5 litres per minute are sufficient.
- Welding eye protection window can be moved to desired position. Can be opened for better visibility.
- · Side door with a diameter of 250mm
- Lighting (more than 1000Lux) of complete work space for good visibility
- Manual control of purge flow with flow meter for precise adjustment of gas usage
- · Standard Butyl rubber gloves for easy handling
- Gas outlet and additional pressure safety valve for safe operation
- Removable, insulated connection board for integration of different feedthroughs for power, gas, water and ground if necessary.
- Standard connection for existing oxygen sensor. No new sensor must be purchased.
- · Weight about 60kg equipped with handles.

Side Wall with Door



- Manual Door with one hand operation.
- Manual shut off valve
- Flow regulation with manual flow control in the range from 30 to 300 l/min.

Technical Data

Inside Dimensions:

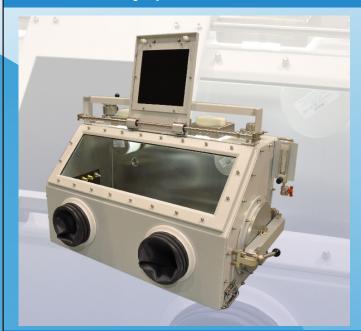
Length: 870mm
Depth: 470mm
Height front: 280mm
Height back: 530mm
Volume: 190 I

Dimensions for transport:

1070 mm (W) x 620 mm (D) x 690 mm (H)

Weight: 60kg

Weld box with eye protection



Side Wall with Connection Board



- Connection Board is equipped with standard welding feed throughs like DINSE or bulkhead fittings. Others upon request.
- Board can be removed for integration of additional feedthroughs.



Easy Operation Explained in 15 Short Steps*:

- 1. Plug in the cable for light and turn on light.
- 2. Connect the gas outlet with an exhaust or put it outside the building.
- 3. Connect your welding equipment to the connection board on the left side.
- 4. Connect your oxygen monitor to the back side**.
- 5. Connect welding argon grade 4.6 or better to the flow meter on the right side.
- 6. Load welding good through door and close it.
- 7. Open regulation valve on top left side.
- 8. Open red regulation valve at flow meter.
- Start purging with desired flow rate. Regulate flow rate with flow meter. With 300l/min you will reach below 10ppm in about 10 minutes.
- 10. Get a cup of tea or coffee.
- 11. Reduce flow rate below 30 l/min.
- 12. Start welding.
- 13. When done, turn off gas flow with red regulation valve at flow meter.
- 14. Open door and take your welding good.
- 15. Turn off light to safe electric energy!

Options:

Purge Antechamber

- Size: Diameter 250mm,length 500mm
- · Antechamber with inside and outside door.
- Antechamber can be purged to 10ppm level within 4 minutes.
- For glove box only one time initial purge necessary.
- Only low stand by purge flow required. Resulting in reduced gas consumption.

MB 10G Gas Purification System

- Standard gas purification for removing oxygen and moisture out of glove box systems.
- After initial setup no argon gas is necessary for main taining the box atmosphere.
- PLC controlled with operation panel
- Automatic regeneration (filter cleaning)
- High purity in the glove box: oxygen and moisture below 1ppm

^{*} For details please refer to the user manual.

^{**} If necessary you can order a new oxygen sensor with MBraun.



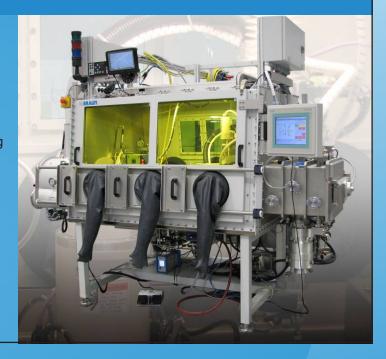
Tig Welding Applications

- Two workstations for simultaneous TIG welding.
- Specially sized antechambers (800x800x1000mm) for big parts
- High performance vacuum pumps for fast antechamber evacuation
- High performance gas purification O₂ and H₂O concentration below 1ppm (i.e. argon grade 6.0 or better)
- Rotation table inside the glove box for easy positioning
- Cooling unit in ceiling for convenient work temperature



Laser Welding Applications

- Integrated laser welding glove box including laser and positioning system
- State of the art solid state laser
- Picture recognition for automated positioning
- Automated robot handling
- Bake out antechamber for drying the products before welding
- Special features for safe laser operation



Please contact MBRAUN for more information

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