Working under controlled conditions

Glove box with individual sizes

gloveBOX

made by ECH

gloveBOX

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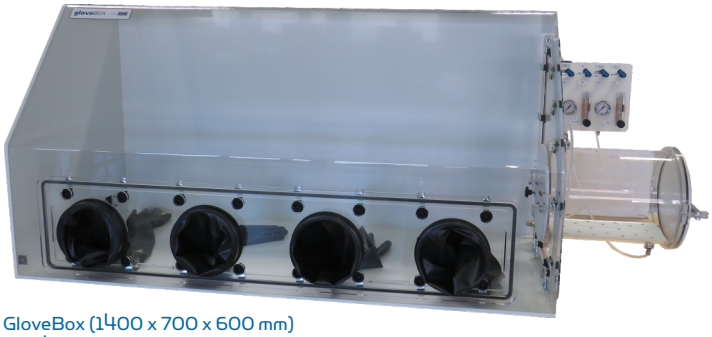
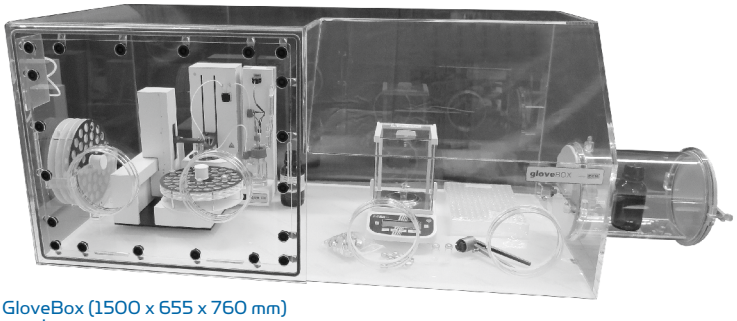
Product description

The GloveBox is designed for easy and functional work under defined conditions. It offers the possibility of comfortable sample preparation, e. g. without the influence of oxygen or at a defined humidity.
The chamber is made entirely of acrylic glass, which ensures a clear view into the working area. The gloves (made of butyl, neoprene, latex) are attached to the front and/or side by means of flanges and can be easily changed. The number of gloves depends on the length of the GloveBox, so that the entire interior can be easily operated.
On the side (optionally on the left or right) is a large sample lock, which is integrated into the maintenance hatch. The maintenance hatch contains two gas connections for gas supply and gas drain.
The gas supply hits a gas baffle plate to prevent gas turbulence for precise weighing operations. Connections for the passage of electrical cables, e. g. for a scale, are possible.



GloveBox (1400 x 700 x 600 mm)
with 4 glove openings offers plenty of space and a large maintenance hatch for easy loading of the the box with equipment



GloveBox (1500 x 655 x 760 mm)
with 4 glove openings and large maintenance hatch on the front side, here equipped with balance and Karl Fischer titrator, integrated holders for sample plates on the left side wall

Applications

- Analytical laboratory
- Pharmacy, chemical industry
- Quality management
- Customer specific solutions
- Sample preparation
- Not for work in safety areas S 1 to S 4

Compact GloveBox (1030 x 650 x 600 mm) with
2 glove openings and large, removable maintenance hatch with integrated airlock

Advantages

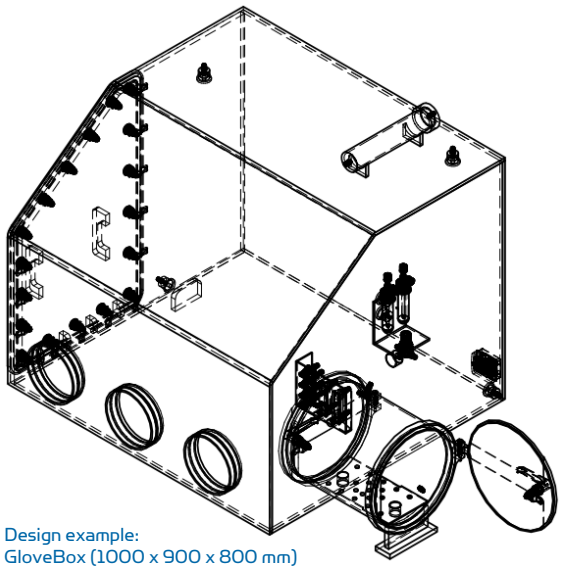
- Free view of the work surface as there is no frame construction
- Gloves can be easily attached and changed as needed
- Compact design with bevelled front panel
- Adaptation to working with scales
- In-house design department for customised design
- Inexpensive, robust design made of acrylic glass

Features

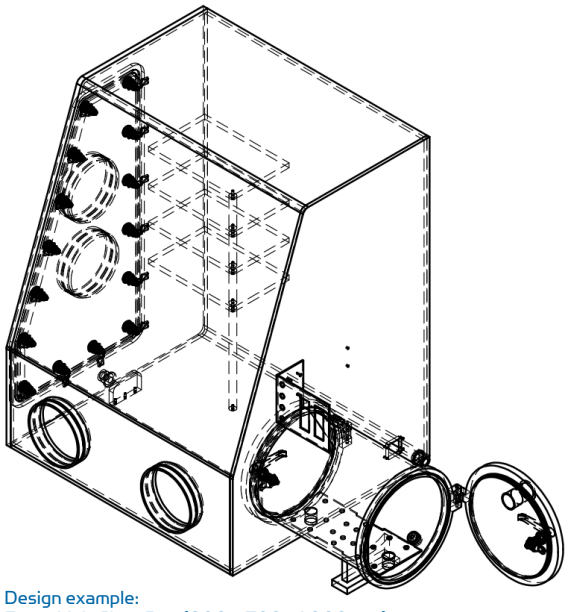
- Box made of 10 mm thick acrylic glass
- Front and side panels transparent
- Base and rear wall in white, optionally transparent
- Hermetically protected room for working under exclusion of air or with defined humidity
- 2 connections for gas inlet and outlet for working in a defined atmosphere
- Glove ports with flange for easy fastening and changing when necessary: Diameter 180 mm
- Various sample locks possible - with separate gas purging
- Connections for feeding through electrical cables - number according to customer requirements
- Gas baffle plate for safe weighing procedures in the GloveBox
- Large maintenance hatch with sash locks and integrated keys for quick opening and closing
- Optionally with internal circulating air drying
- Pressure-stable at normal pressure ± 0.02 bar

Sample locks (examples)

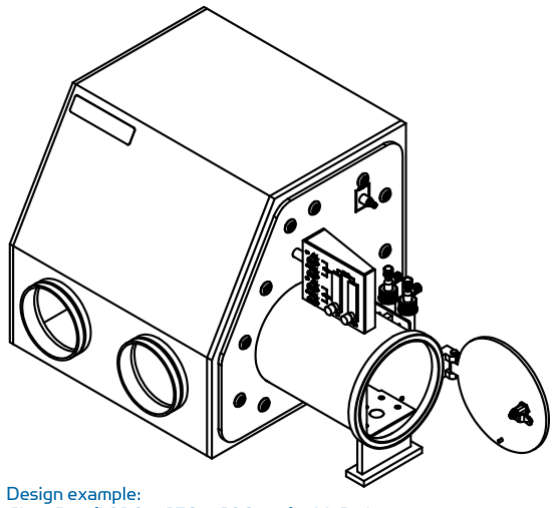
Outer diameter of the lock [mm]	Max. sample height [mm]	Length of the lock [mm]
150	130	320
250	215	320
300	265	320



Design example:
GloveBox (1000 x 900 x 800 mm)
with 3 glove openings and large, removable
maintenance hatch on the side wall



Design example:
Extra-high GloveBox (800 x 700 x 1000 mm)
with 4 glove openings on the front and sides
and shelves on the rear wall



Design example:
GloveBox (1030 x 650 x 600 mm) with 2 glove openings and large, removable maintenance hatch with integrated airlock

Technical specifications

Working temperature:	10 – 40 °C
Pressure limits:	Operation permitted at normal pressure ± 20 mbar
Chemical resistance:	Note the properties of PMMA (acrylic glass)
Dimensions:	Customer specific
Dimensions of the standard airlock:	Length 320 mm; diameter 250 mm

Example design (see fig. above)

Dimensions:	1030 x 650 x 600 mm (W x D x H)
Weight:	Approx. 30 kg

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