

# **MB ACRYL GLOVEBOX**

## **SINGLE PIECE MOLDED GLOVEBOX**



Overview of the MB-Acryl GB 2202-P-D



Inline filter cartridge for circulation system



Top view of the purge antechamber

- Unique single piece molded benchtop design
- No glue or clamps on the body of the box
- Easy to open or remove clamped front window
- Ball valves for gas purge and exhausting of the box
- Side door ø290 mm or antechamber ø280 mm

### Options:

- Electrical power feedthrough
- Stainless steel floor pan
- Illumination
- Inline filter cartridge for circulation system (mounted external in piping)
- Box pressure control via ON/OFF controller

The MBRAUN Acrylic Glovebox offers a cost-effective solution for inert atmosphere applications mainly for user protection.

A thick, clear, and durable acrylic shell allows optimum visibility and remains impermeable to ambient air. Standard Neoprene gloves provide excellent resistance to abrasion and chemicals.

The GB 2202 can be configured to meet your project specifications and/or can simply be chosen from a variety of standard pre-defined configurations like purge antechamber (PAC), vacuum antechamber (VAC) or circulation unit (C).



## MB ACRYL GLOVEBOX TECHNICAL DATA:

### General specifications:

|                                                   |                                                                    |
|---------------------------------------------------|--------------------------------------------------------------------|
| Glovebox.....                                     | Single piece molded housing                                        |
| Window.....                                       | Removable (mounted with clamps), acrylic glass, with 2 glove ports |
| Gloves.....                                       | Pair, Neoprene, size 8, thickness 0,6 mm                           |
| Glove port.....                                   | ø 190 mm, PMMA                                                     |
| Inner dimensions Glovebox.....                    | 950 x 540/420 x 650 mm (L x (base/ceiling) x H)                    |
| Max. dimensions Glovebox without antechamber..... | 1135 x 565 x 825 mm (L x D x H)                                    |
| Max. dimensions Glovebox with antechamber.....    | 1505 x 596 x 825 mm (L x D x H)                                    |
| Glovebox volume.....                              | 300 l                                                              |
| Inlet and outlet filter.....                      | H13 HEPA                                                           |
| Working pressure range.....                       | from -2,5 to +2,5 mbar                                             |
| Working gas.....                                  | Air, Nitrogen, Argon or Helium                                     |

### Models specifications:

|                                    | MB-ACRYL-P-D                           | MB-ACRYL-P-VAC                    | MB-ACRYL-P-PAC                              | MB-ACRYL-C-VAC                                 | MB-ACRYL-C-PAC                                |
|------------------------------------|----------------------------------------|-----------------------------------|---------------------------------------------|------------------------------------------------|-----------------------------------------------|
| Glovebox principle                 | Purge box                              | Purge box with vacuum antechamber | Purge box with purge antechamber            | Circulation with blower and vacuum antechamber | Circulation with blower and purge antechamber |
| Use                                | User protection                        | User and product protection       |                                             | User/product and box atmosphere protection     |                                               |
| Weight                             | 28 kg                                  | 36 kg                             | 39 kg                                       | 99 kg                                          | 102 kg                                        |
| Gas inlet                          | Ball valve G ¼" with 1 hose connection |                                   |                                             |                                                |                                               |
| Gas outlet                         | Butterfly valve DN40 KF                |                                   |                                             | Connected to blower                            |                                               |
| Blower *                           | -                                      | -                                 | -                                           | 360 l/min                                      | 360 l/min                                     |
| Door (int. diameter)               | 290 mm                                 | -                                 | -                                           | -                                              | -                                             |
| Door material                      | Aluminum                               | -                                 | -                                           | -                                              | -                                             |
| Door opening                       | Horizontal opening                     | -                                 | -                                           | -                                              | -                                             |
| Antechamber type                   | -                                      | Vacuum                            | Purge                                       | Vacuum                                         | Purge                                         |
| Antechamber diameter               | -                                      | 280 mm                            |                                             |                                                |                                               |
| Antechamber length                 | -                                      | 350 mm                            |                                             |                                                |                                               |
| Antechamber volume                 | -                                      | 22 l                              |                                             |                                                |                                               |
| Antechamber inner/outer opening    | -                                      | Horizontal opening                |                                             |                                                |                                               |
| Antechamber connections            | -                                      | DN 25 KF flange for vacuum        | Purge inlet ball valve G ¼"                 | DN 25 KF flange for vacuum                     | Purge inlet ball valve G ¼"                   |
| Antechamber connections            | -                                      | Ball valve G ¼" for refilling     | Purge outlet valve with G 1" hose connector | Ball valve G ¼" for refilling                  | Purge outlet valve with G 1" hose connector   |
| Antechamber pressure gauge         | -                                      | Vacuum gauge                      | -                                           | Vacuum gauge                                   | -                                             |
| Inline filter cartridge (optional) | -                                      | -                                 | -                                           | Can be filled with ~300 g of granulate         |                                               |

\*Technical note: Depending upon operating conditions

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