



Vacuum-type Glove Box



Products

Vacuum glove box

Purge type glove box ▶

Options ▶

Gas Recycle Purification System ▶

Clean Ovens ▶

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Reduction Furnace ▶

Vacuum Desiccator ▶

Laminator ▶

The vacuum glove box system can be used for handling (i) solids, powders, and liquids that are unstable in air, (ii) radioactive substances and (iii) very toxic substances. After being quickly evacuated by a vacuum pump, the system inside is hermetically filled with a predetermined inert gas (N₂, Ar, He, dry air or the like) up to normal pressure. Operations can be executed through the gloves. Specimens are loaded/unloaded through the side box. The attachment of a gas recycling purification system makes it possible to maintain a highly pure inert gas atmosphere inside the system for a long period of time.

Features

- Both the glove box and the side box can be evacuated, resulting in rapid gas replacement and high reliability.
- The viewing window is large and can be readily attached and removed, enabling specimen loading/unloading through the viewing window.
- Located on the side of the glove box, the side box has a sliding door for effectively accessing the glove box.
- The side box has a slide table that facilitates specimen loading/unloading.
- The pressure inside the glove box can be kept constant by an automatic pressure controller (optional).
- When a special glove port (patent pending) is used, a damaged glove can be replaced without disturbing the atmosphere inside the glove box (optional).

Specifications

Vacuum degree	Glove box: 13.3Pa or less Side box: 6.65Pa or less
Viewing window	Hardened reinforced glass
Inside finish	Buffed (standard), Electroplated
Glove box internal electrical outlet	100 V AC 15A × 2
Automatic pressure controller	Equipped with a foot switch (optional)
Illumination LED lamp	13 W
Gloves	Butyl (standard), Neoprene * Precision cleaning of gloves (optional)
Viewing window safety cover	Polycarbonate (optional)

Lineup

Model	Glove box Size (mm)			Side box Size (mm)		
	Length	Width	Height	Length	Width	Height
1ADB-3	650	500	500	350	φ 216.3	φ 216.3
1ADB-1000	1000	500	500	350	φ 216.3	φ 216.3
MDB-1B	900	700	700	510	225	320
MDB-1.5B	1200	700	700	510	225	320
MDB-2B	900	950	700	510	300	320
MDB-2BL	1800	700	700	510	225	320

X 2

* Glove boxes can be manufactured to sizes other than above.

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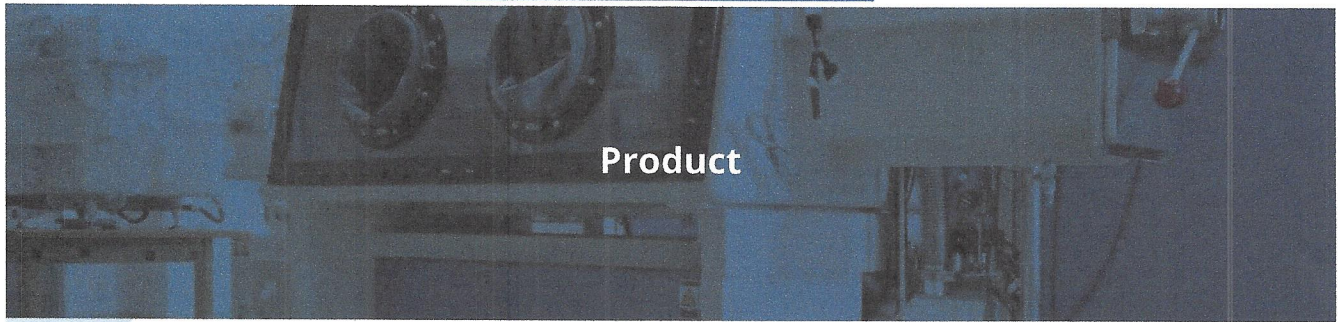
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Manufacturing at Miwa Works

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Product

Gas Recycle Purification System



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This gas recycling purification system is designed to recycle and purify the inert gas in the glove box by removing moisture, oxygen, organic solvent, dust and the like generated in the glove box. Oxygen can be removed by reaction with a platinum or reduced copper catalyzer. The moisture is removed by an adsorption tower. Catalyzers and adsorbents are regenerated automatically or manually. The system is available in a single unit type and double unit type with a standby unit.

Specifications

Example gases that are removed from inert gases such as nitrogen, argon or helium include moisture, oxygen, CO₂ and organic gas.

Oxygen/Moisture level	100 ~ 1.47 ppb or less
Dust	99.97% removal of 0.3 μ size particles
Circulating air flow	10 ~ 300 Nm ³ /hr
Material	SUS 304
Option	N ₂ removal

Data

ppm=1 × 10⁻⁶, ppb=1 × 10⁻⁷