

Vacuum replacement type glove box

model GGBX-9102X

[Outline]

This equipment, a glove box designed to enable a user to work in an ultraclean environment of several inert gases, is equipped with a gas circulation refining device (deoxygenation and dehydration) to keep the chamber's inert gas environment dry.

Easy sample insertion and extraction allows one to manipulate it quickly, preventing contamination.

[Features]

- 1) The chamber is replaced with gas after vacuuming. This feature reduces the inert gas consumption.
- 2) The chamber pressure is controlled automatically.
- 3) The setup gas circulation refining device easily provides and protects an ultraclean environment with contained amounts of oxygen and moisture both less than 1 ppm.
- 4) A user can build several devices in the wide chamber on individual preference.

[Basic Specification]

1) Main body of glove box

Structur	made from SUS304
Pressure range of use	6.7×10^{-4} Pa to 1 atm, absolute
Total leakage	0.1 Vol%/h at -10 mbar
Environmental gas	argon
Lighting in the chamber	fluorescent lamp
Shelf in the chamber	available
Ports	port for sample insertion and extraction observation port glove port maintenance port port for vacuum exhaust gas port for gas circulation refining evacuation port service port

2) Vacuum exhausting system

Turbo molecular pump	160 L/s
Rotary pump	375 L/min
Valve	equipped with hand operated gate valve
Pirani and Penning vacuum gage	equipped with compact cold cathode gage

3) Gas supply system

Automatic pressure controller	settable between 0~5 mbar
Manual pressure controller	manipulated by foot switch



GES CORPORATION

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4) Gas purification system

Attainment level of gas purification	less than 1 ppm for oxygen and moisture
Resurgent gas	gas containing 5–10% of hydrogen
Circulating pump of resurgent gas	50 L/min
Deoxygenation tower	3 L
Resurgent heater in deoxygenation tower	200V/400W
Dehydrating tower	3 L
Vacuum pump for dehydrating tower	50 L/min
Resurgent heater in deoxygenation tower	400 W, 200 V
Dust filter	one
Pressure gauge	compound gauge

5) Panel devices

- Regulation of vacuum exhausting system
- Regulation of gas supply system
- Regulation of gas purification system

[External Appearance]



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