

1.1.1 Room

Temperature Control	Minimum 5°C (41°F), Maximum 40°C (104°F)
Humidity	20% to 70%
Condition	Good Ventilation
Altitude	Up to 2000 meters
Additional	Access to exhaust system for glovebox vent tubes

1.1.2 Floor

Condition	Flat and level, Able to support equipment weight at least 700 Kg (1600 lbs.)
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1.2 Gas Supply

1.2.1 Working Gas

Use	Required for operating certain system valves and to create an inert atmosphere inside the glovebox
Gas Types	Helium (He), Nitrogen (N ₂), or Argon (Ar), gas cylinders (or boil-off from cryogenic liquid)
Quality	99.995% to ultra-high purity, 99.999%
Quantity	A type K or T* cylinder at approximate 2,400 ~ 3,000 psi (165 ~ 205 bar). K and T are supplier-dependent designations, but both are 250 cubic feet of gas.
Regulators	CGA350, Two-stage, capable of a delivery pressure of at least 80psi (~5 bar)
Connection	8 mm compression fitting (Provided by Vigor) to 1/4 "or 3/8 "NPT

1.2.2 Regeneration Gas

Use	Regenerates the purifier by reducing copper oxide back to copper metal.
Gas Types	Inert gas to match your working gas plus 5% Hydrogen, for example; 5% Hydrogen (H ₂) in Helium (He); 5% Hydrogen (H ₂) in Nitrogen (N ₂) 5% Hydrogen (H ₂) in Argon (Ar)
Qualities	99.995% to ultra-high purity, 99.999%
Quantity	Requires approximately ½ to 1 full type K or T cylinder at 2,400 ~ 3,000 psi (165 ~ 205 bar) for each regeneration cycle
Regulators	CGA580 or CGA350, Depending on the gas supplier, two-stage, capable of a delivery pressure of at least 40 psi (~3 bar)
Connection	8 mm compression fitting (Provided by Vigor) to 1/4 "or 3/8 "NPT

1.3 Power Supply (Standard USA Configuration, 220VAC units are also available)

Main Power	Dedicated 110V – 120VAC, 60Hz, 15A Circuit, Grounded (USA) Connection to the supply is via a standard grounded AC power plug.
Heated Antechamber (option)	~120VAC, 60Hz Units with flat metal heaters are 300W/plate. Units have two (FLC 5A) or three plates (FLC 7.5A). Units with IR heating tubes require a maximum FLC of 8.4A. The heater unit connects to the supply via a standard grounded AC power plug.
Freezer (option)	~120VAC, 60Hz, 300W (Maximum FLC 2.5 A) The freezer unit connects to the supply via a standard grounded AC power plug.