

Electrical Voltage		• 230 VAC/50-60 Hz, 10 A _____ • 115 VAC/50-60 Hz, 20 A _____ • 100 VAC/ 50-60 Hz, 20 A _____
Glovebox Chamber		
Description	Material	Stainless Steel SS 304, 3.0 mm in thickness
	Interior Dimensions	Length=_____Width=_____Height=_____
Inclined Front Window	Material	Tempered glass, 8.0 mm in thickness _____ Lexan (polycarbonate) 10 mm in thickness _____
Glove Ports	Tekaform Material	Hard aluminum alloy _____ Polyaldehyde _____
Gloves	Material	Butyl rubber
	Thickness	0.4 mm (standard) _____ 0.8 mm upon request _____
HEPA Filters		Inlet and outlet filters eliminate particles with the size >0.3 μ m
Lighting		Fluorescent lamp, front-ceiling mounted
Leakage Rate		Typically <0.05% vol/hr at -10 mbar, by oxygen leak decay test method according to ISO 10648-2: 1994, or by Pressure Change Test Method according to ISO 25412
Gas Purification System		
Description	• Automated removal of H₂O and O₂ • Single column, automated column regeneration; dual purification columns (optional) • Closed stainless steel loop for gas recirculation and purification	
Operating Gas	Working gas	Nitrogen, Argon, or Helium (purity >99.999%)
	Regeneration gas	Mixture of H ₂ (5-10%) and working gas
Vacuum Pump	Rotary vane pump, installed with oil mist filter, oil circulator, and automatic gas ballast control; dual-stage _____ Dry pump upon request _____	

	Pumping rate	7.0 CFM (12 m ³ /h)
	Ultimate vacuum	< 2 x 10 ⁻³ mbar
Circulation Unit	Material	Integrated blower, oil-free, highly efficient
	Flow Rate	47 CFM (80 m ³ /h)
Valves		Electro-pneumatic DN40
Leakage Rate		Typically <0.05% vol/hr at -10 mbar, by oxygen leak decay test method according to ISO 10648-2: 1994, or by Pressure Change Test Method according to ISO 25412

Antechamber

Main Antechamber	Material	Stainless Steel SS 304; 3.0 mm in thickness
	Internal Dimensions	Standard cylindrical: 14.2" (Φ) x 23.6" (L), 360 mm (Φ) x 600 mm (L) _____ Standard Square: 15.7" L x 9.8" W x 9.8" H, or 400 x 250 x 250 mm _____
	Vacuum	cylindrical: Diameter=_____ Length=_____ Square: Length=_____ Width=_____ Height=_____
Mini Antechamber	Material	Stainless Steel SS 304; 3.0 mm in thickness
	Dimensions	Cylindrical: 5.9" (Φ) x 13" (L), 150 mm (Φ) x 330 mm (L)
		Cylindrical: Diameter=_____ Length=_____

Purging System

Function	Automatic purging system which allows easy operation and reduces gas consumption
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Analyzers

O₂-Analyzer	Standard, 8" L x 3.1" W x 2.3" H, 205 mm (L) x 80 mm (W) x 60 mm (D) 0 to 1000 ppm (V) _____
	GE oxy.IQ™ Oxygen Transmitter upon request _____

H ₂ O-Analyzer	Standard, 8" L x 3.1" W x 2.3" H, 205 mm (L) x 80 mm (W) x 60 mm (D) Measurement Range, 0 to 1000 ppm (V) _____	
	GE VeriDri™ Dew-Point Transmitter _____	
Solvent Purification System		
Description	Column Material	Stainless Steel SS 304 ; 3.0 mm in thickness
	Inside Dimensions	8.6" (Φ) x 17.7" (H), 220 mm (Φ) x 450 mm (H)
	Packing Material	High-quality activated carbon
Optional Components		
Vacuum feedthrough with two valves		Special design for KF40 joint, leading water and gas into glovebox _____
Electrochemical signal feedthrough (4 or 8 pins)		Stainless Steel SS 304 _____
Freezer	Location	Integrated on the side panel of the glovebox _____
	Inside dimensions	16.6" L x 10.5" W x 6.4" D, 420 mm (H) x 266 mm (W) x 162 mm (D)
	Capacity	18 L or 32 L, 5 shelves with adjustable height
	Minimum Temperature	-35 °C
Microscope with CCD Camera System		Equipment for microscopic analysis of glovebox contents, video-assisted motion can be customized upon request _____
Cold Well with Cover		Different capabilities of cold wells for low-temperature storage and low-temperature reaction manipulation _____
Dual Purification Columns		More efficient to remove oxygen and moisture _____
Organic Solvent Absorber		Regenerable, more efficient to purify organic solvent _____
Cooling Fan		Accelerate the gas flow in the glovebox chamber _____
Heating Element		Installed in Main Antechamber; Maximum 200 °C; Temperature control ±1 °C. _____