

EASYlab^{pro} Glovebox



PRODUCT INFO

- Compact, modular design
- Removal of oxygen and moisture <1 ppm
- PLC - Siemens (Smart Line) with color touch panel
- Fixed configuration for a quick delivery
- Small and big antechambers with sliding tray
- Closed loop recirculation
- Negative and positive pressure operation
- Foot switch for temporary pressure adjustment

AFFORDABLE ENTRY-LEVEL SOLUTION

TECHNICAL DATA

Type of construction	Modular box with bolted in flanged side panels
Material	Stainless steel (US 304, 1.4301)
Inside lengths	1250 mm
Inside depth	Single sided: 780mm
Inside height	900 mm
Leak rate	< 0.05 Vol%/h
Inside surface	Brushed finish Ra 1.2 µm
Outside surface	Coated, white (RAL 9003)
Window	Laminated safety glass window
Glove ports	Corrosion-resistant aluminum alloy, 220 mm diameter, O-ring sealed for a good antistatic effect reduction
Gloves	Butyl
Light	LED
Feedthroughs	4 DN40KF flanges on the rear wall
Electrical feedthrough	1
Dust filter	HEPA H13 in/out
Shelves	3 adjustable shelves rear side (length: depending on box length)



OPTIONAL

Large choice of feedthroughs for signals, gas, liquids

UTILITIES

	Medium (or type)	Pressure	Flow rate	Connection
Working gas	Nitrogen, Argon, Helium or mixtures of those	5.. 6 bar	250 l/min	Ø 10 mm cutting ring-screw connection
Regeneration gas	mix. or Ar/H ₂ mix. (H ₂ 2-5 %, optional H ₂ >5%)	0.3 - 0.4 bar	15-20 l/min	Ø 10 mm cutting ring-screw connection
Regeneration gas exhaust	Flexible hose, 9 x 3 mm			
Vacuum pump exhaust	Depressurized flexible hose, diameter not less than 25 mm (to be supplied by customer)			
Electrical power (FLA)	230 V / 50 ... 60 Hz / 6.4 ... 8 A			

MAIN ANTECHAMBER

Type	Cylindrical
Material	Stainless steel
Dimensions	390 x 600 mm (D x L)
Inside surface	Brushed finish
Outside surface	Coated, white (RAL 9003)
Leak rate	< 10E-4 mbar l/s
Sliding tray	Stainless steel
Dimensions of sliding tray	575 x 290 mm (L x W)
Doors	Aluminum, anodized, thickness 10 mm
Door lock	Door closing mechanism with spindle handle for one hand operation
Pressure gauge	Analog
Vacuum / Refill process	Manual operation via hand valves



MINI ANTECHAMBER

Type	Cylindrical
Material	Stainless steel
Dimensions	150 x 400 mm (D x L)
Leak rate	< 10E-4 mbar l/s
Sliding tray	Stainless steel
Dimensions of sliding tray	387 x 120 mm (L x W)
Doors	Aluminum, anodized, thickness 12 mm
Door lock	Hinged doors attached to the antechamber body to prevent door from falling out
Pressure gauge	Analog
Vacuum / Refill process	Manual operation via hand valves



GAS PURIFIER

Operation principle	Closed loop recirculation
Attainable purity level	Moisture < 1 ppm, Oxygen < 1 ppm
Included analyzers	Moisture: MB-MO-SE1 Oxygen: MB-OX-SE1
Recommended enclosure volume	Up to 2 m³
Number of filters per line	1
Number of filters per purifier	1 for SP
Filter capacity per purification line	
(O2) Oxygen	20 l per filter
(H2O) Moisture	900 g per filter
Regeneration	Automatic regeneration sequence
Control unit	PLC - Siemens (Smart Line)
Display	Color touch panel
Box pressure control	Automatic pressure control with foot switch (± 15mbar)
Vacuum pump	Rotary vane pump with 17 m³/h (10 CFM)
Blower (50 Hz / 60 Hz)	Variable speed up to 45 m³/h
Main and side piping	Stainless steel 1.4301 (US 304)
Main and control valves	Electro-pneumatic



OPTIONAL

Solvent vapor removal filter