

# EASYlab<sup>pro</sup> 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 <sub>2</sub> mix. (H <sub>2</sub> 2-5 %, optional H <sub>2</sub> >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 m <sup>3</sup>
Number of filters per line	1
Number of filters per purifier	1 for SP
Filter capacity per purification line	
(O <sub>2</sub> ) Oxygen	20 l per filter
(H <sub>2</sub> O) 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 m <sup>3</sup> /h (10 CFM)
Blower (50 Hz / 60 Hz)	Variable speed up to 45 m <sup>3</sup> /h
Main and side piping	Stainless steel 1.4301 (US 304)
Main and control valves	Electro-pneumatic



### OPTIONAL

Solvent vapor removal filter