

UNIIab^{plus}

INERT GAS GLOVEBOX WORKSTATION



myMBRAUN App







- Stainless steel enclosure with polycarbonate window
- Removal of oxygen and moisture, <1 ppm
- PLC M. Braun controller with large color touch panel
- Simultaneous purification and regeneration with DP version
- Closed loop recirculation
- Negative and/or positive pressure operation
- Large antechamber with sliding tray
- Foot pedal switch for temporary pressure adjustment
- ECO Mode operation feature available
- Live monitoring of your glovebox data with myMBRAUN Application
- Optional control and safety features available

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GLOVEBOXES AND ACCESSORIES







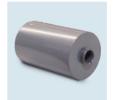
Feedthroughs



Microscopes



Oxygen, moisture and solvent sensor



Internal solvent vapor



Mini-antechamber



External solvent vapor removal, regenerable

GLOVEBOX TECHNICAL DATA			
Type of construction	Side panels bolted on the box body		
Material	Stainless steel (US 304, 1.4301)		
Inside lengths	1200 / 1450 / 1950 mm		
Inside depth	780 mm		
Inside height	920 mm		
Leak rate	< 0.05 Vol%/h		
Inside surface	Brushed finish Ra 1.2 μ m		
Outside surface	Coated, white (RAL 9003)		
Window	Scratch resistant polycarbonate window		
Glove ports	POM, 220 mm diameter, O-ring sealed		
Gloves	Butyl, thickness 0.4 mm		
Light	Fluorescent lamp		
Feedthroughs	2 / 3 / 4 DN40KF flanges (depending on box length)		
Electrical feedthrough	1		
Dust filter	HEPA H13 in/out		
Shelves	3 modular shelves rear side (length: depending on box length)		

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Cold well

Safety glass window

Large choice of feedthroughs for signals, gas, liquids

A variety of gloves (Hypalon, Neoprene and Butyl) and thickness sizes are available

Specific shelves and storage arrangements...

MAIN ANTECHAMBER TE	ECHNICAL DATA			
Туре	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 display			
Vacuum / Refill process	Manual operation via hand valves			
Valves	Hand valves (DN40 vacuum line / DN8 refill line)			

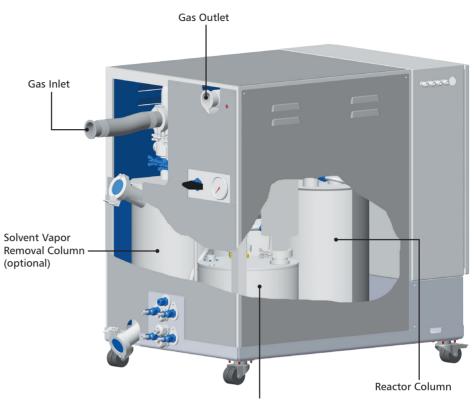
OPTIONAL
Time controlled antechamber operation
Round large main antechambers
Round mini antechambers (side or bottom mounted)
Rectangular square antechamber
L-shaped square antechamber
Round T-shaped antechamber
Square T-shaped antechamber

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GAS PURIFIER UNIT



PLC - M. Braun controller with large color touch screen



Encapsulated Blower

GAS PURIFIER UNIT TECHNICAL DATA	
Operation principle	Closed loop recirculation
Attainable purity level	Moisture < 1 ppm, Oxygen < 1 ppm
Recommended enclosure volume	Up to 5 m ³
Number of purification lines per purifier	1 for sp / 2 for dp
Number of reactor columns per line	1
Number of reactor columns per purifier	1 for sp / 2 for dp
Reactor capacity per purification line*	
(O2) Oxygen	36 I
(H2O) Moisture	1350 g
Regeneration	Automatic regeneration sequence
Control unit	PLC - M. Braun
Display	Large 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)*	Frequency controlled up to 88 m³/h
Main and side piping	Stainless steel 1.4301 (SUS 304)
Main and control valves	Electro-pneumatic
Regeneration gas	N2/H2 mix. or Ar/H2 mix. (H2 2-10 %)
Working gas	Nitrogen, Argon or Helium
Size	820 x 600 x 848 mm (L x W x H)

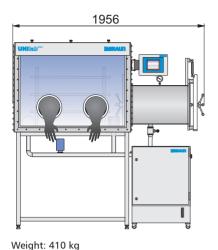


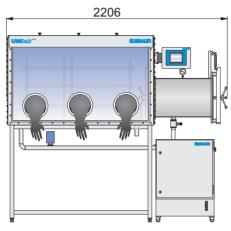
OPTIONAL
Moisture and oxygen analyzer
ECO Mode
myMBRAUN App
Solvent vapor removal
Regenerable solvent vapor removal
Recirculation chiller for optimal working environment (RCC)
Integrated heat exchanger
Dry pump upgrade
Automatic box purge unit
Antechamber automatic (time controlled or pressure controlled)
Freezer or box cooling

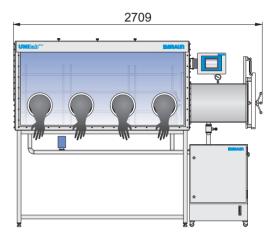
Dimensions in mm

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SIZES AND CONFIGURATION



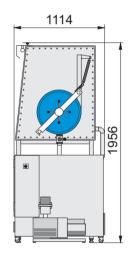




Weight: 440 kg Weight: 535 kg

GLOVEBOX VOLUMES	
Box length: 1200 mm	0.8 m ³
Box length: 1450 mm	1.0 m ³
Box length: 1950 mm	1.3 m ³

UTUITIEC				
UTILITIES				
	Medium (or type)	Pressure	Flow rate	Connection
Working gas	Nitrogen, Argon or Helium	6 bars	250 l/min	Swagelok Ø 10 mm
Regeneration gas	N2/H2 mix. or Ar/H2 mix. (H2 2-10 %)	0.3 - 0.5 bars	15-20 l/min	Swagelok Ø 10 mm
Regeneration gas exhaust	Flexible hose, 9 x 3 mm			
Vacuum pump exhaust	Depressurized flexible hose, diameter no	ot less than 25 m	nm (to be suppli	ed by customer)
Electrical power (FLA) for dp version	230 V/50-60 Hz, 8 A or 115 V/50-60 Hz,	, 16 A or 100 V/5	50-60 Hz, 18.5 A	



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