





GLOVEBOX WORKSTATIONS

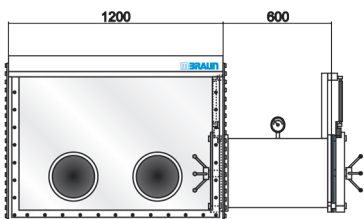


- Stainless steel enclosure with polycarbonate window
- Removal of oxygen and moisture, <1 ppm
- Closed loop recirculation
- Negative and/or positive pressure operation
- Large antechamber with sliding tray
- Foot pedal switch for temporary pressure adjustment
- ECO Mode operation feature available
- Optional control and safety features available

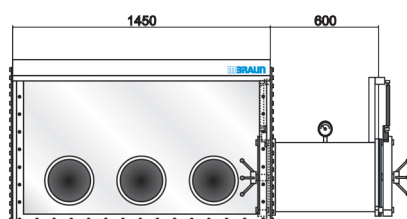
	SIDE PANELS BOLTED ON THE BOX BODY	MODULAR GLOVEBOX
GAS PURIFIER UNIT LOCATED UNDER THE MAIN ANTECHAMBER	<p>UNILab^{plus}</p> 	<p>UNILab^{pro}</p> 
INTEGRATED GAS PURIFIER UNIT	<p>LABstar</p> 	<p>LABmaster^{pro}</p> 

STANDARD DELIVERY FOR EVERY MBRAUN GLOVEBOX WORKSTATIONS	
Box light	Large color touch panel
Automatic pressure control with foot switch (± 15 mbar)	Rotary vane vacuum pump
Main antechamber 390 x 600 mm (D x L)	Shelves
Scratch resistant polycarbonate window	Gloves: butyl, thickness 0,4 mm
Automatic regeneration sequence	Closed loop recirculation
Glovebox material: stainless steel (US 304, 1.4301)	Leak rate < 0.05 Vol%/h
Inside surface: brushed finish Ra 1.2 μ m	Outside surface: coated, white (RAL 9003)
Electrical feedthrough	Dust filter HEPA H13 in/out

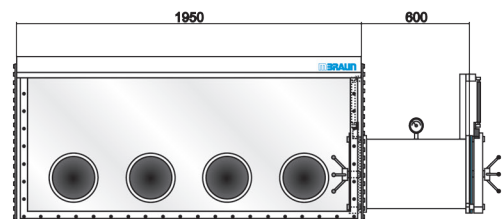
LABstar & UNILab^{plus} WORKSTATIONS



1200 mm (L) x 780 mm (D) x 920 mm (H)

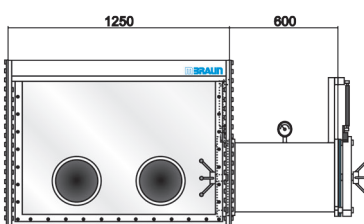


1450 mm (L) x 780 mm (D) x 920 mm (H)

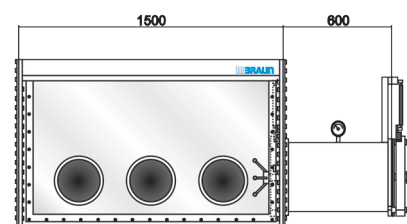


1950 mm (L) x 780 mm (D) x 920 mm (H)

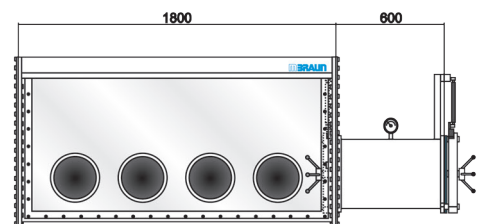
UNILab^{pro} & LABmaster^{pro} MODULAR WORKSTATIONS



1250 mm (L) x 780 mm (D) x 900 mm (H)

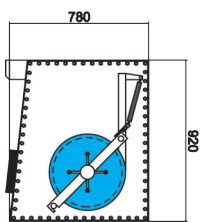
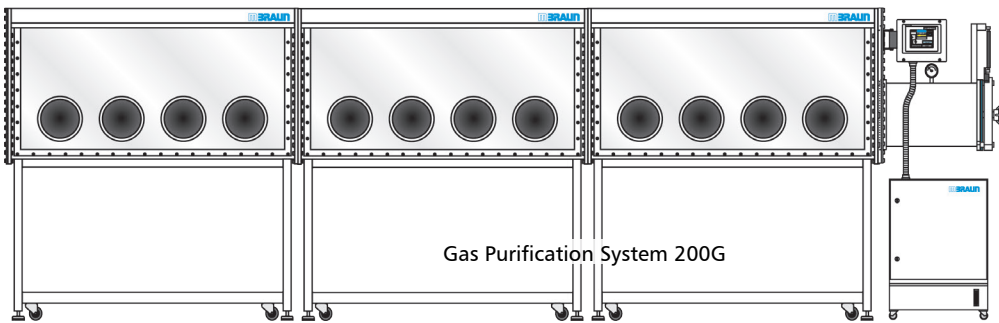
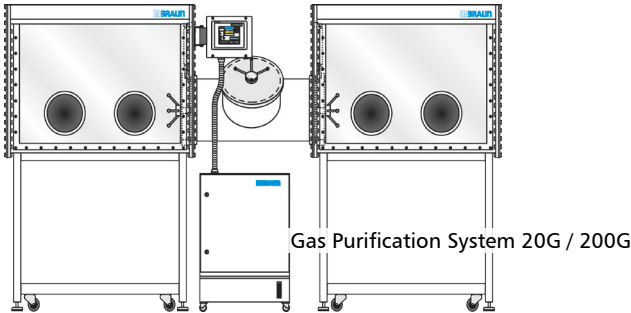
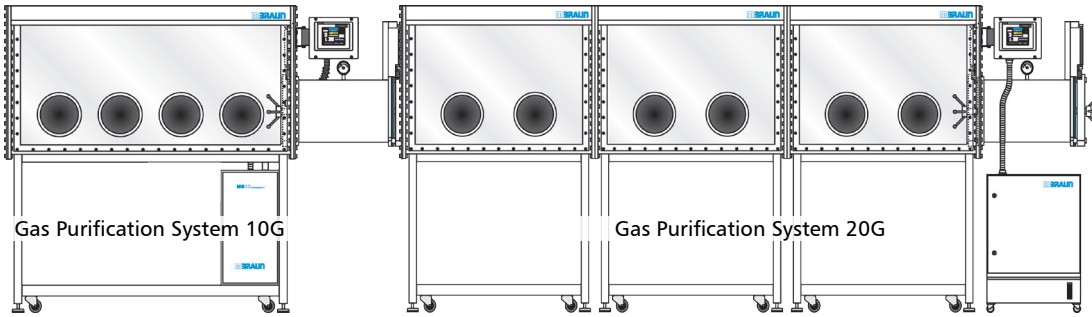


1500 mm (L) x 780 mm (D) x 900 mm (H)



1800 mm (L) x 780 mm (D) x 900 mm (H)

EXAMPLES OF CONFIGURATION



Volume:

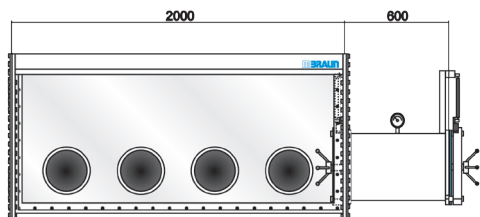
- 1250 (L) = 0.8 m³
- 1450 (L) = 1.0 m³
- 1950 (L) = 1.4 m³



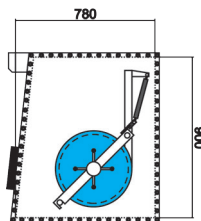
Eco Mode provides an energy-saving operation mode that can be set when workstation or gas purification system is not used, or when it is not necessary to use 100% of the power to keep the atmosphere <1 ppm O₂ and H₂O.

Working principle: the Eco Mode option allows to reduce noise emission due to the vacuum pump and also to reduce power consumption of the glove-box system

- Automatic activation of the Eco Mode at a desired time
- The vacuum pump can be switched off, when the vacuum antechambers are not used for a long time
- Positive pressure regulation without vacuum pump
- Optimized blower speed with reduced power consumption linked to O₂ and H₂O purity
- Automatic box light switch off

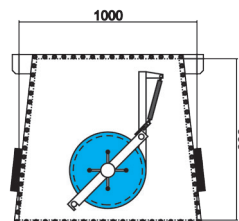


2000 mm (L) x 780 mm (D) x 900 mm (H)



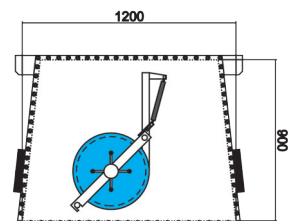
Volume:

- 1250 (L) = 0.8 m³
- 1500 (L) = 1.0 m³
- 1800 (L) = 1.2 m³
- 2000 (L) = 1.4 m³



Volume:

- 1250 (L) = 1.0 m³
- 1500 (L) = 1.2 m³
- 1800 (L) = 1.5 m³
- 2000 (L) = 1.8 m³



Volume:

- 1250 (L) = 1.2 m³
- 1500 (L) = 1.5 m³
- 1800 (L) = 1.8 m³
- 2000 (L) = 2.1 m³

Modular box with screwed in flanged side panels		
Stainless steel (US 304, 1.4301)		
1250 / 1500 / 1800 / 2000 mm		
Single sided: 780mm, Double sided: 1000 or 1200 mm		
900 mm		
< 0.05 Vol%/h		
Brushed finish Ra 1.2 μm		
Coated, white (RAL 9003)		
Scratch resistant polycarbonate window		
POM, 220 mm diameter, O-ring sealed		
Butyl, thickness 0.4 mm		
Fluorescent lamp		
4 / 5 DN40KF flanges (depending on the box depth)		
1		
HEPA H13 in/out		
3 modular shelves rear side or hanged (length: depending on box length)		
Cylindrical		
Stainless steel		
390 x 600 mm (D x L)		
Brushed finish		
Coated, white (RAL 9003)		
< 10E-4 mbar l/s		
Stainless steel		
575 x 290 mm (L x W)		
Aluminum, anodized, thickness 10 mm		
Door closing mechanism with spindle handle for one hand operation		
Analog display		
Manual operation via hand valves		PLC operated
Hand valves (DN40 vacuum line / DN8 refill line)		Electro-pneum. valve DN40, evacuation line PLC-controlled, solenoid valve DN10 refill line PLC-controlled
Closed loop recirculation		
Moisture < 1 ppm, Oxygen < 1 ppm		
Up to 5 m ³		
1 for sp / 2 for dp		
1		
1 for sp / 2 for dp		
36 l		
1350 g		
Automatic regeneration sequence		
PLC - M. Braun		PLC - Siemens
Large color touch panel		Large color touch panel
Automatic pressure control with foot switch (± 15mbar)		
Rotary vane pump with 17 m ³ /h (10 CFM)		
Frequency controlled up to 88 m ³ /h		
Stainless steel 1.4301 (SUS 304)		
Electro-pneumatic		
N ₂ /H ₂ mix. or Ar/H ₂ mix. (H ₂ 2-10 %)		
Nitrogen, Argon or Helium		
820 x 600 x 848		1176 x 525 x 720
	Available	
Available		Included
	Available	
	Available	
	Available	
	Available	
	Available	
Available		Not available
	Available	
Not available		Available
Not available		Available
Available		Included
	Available	
Available		Included
Available		Available
	Available	

*Technical note: Depending upon operating conditions

ACCESSORIES AND OPTIONS

MOBILE APP

myMBRAUN APPLICATION

Live monitoring of your MBRAUN Glovebox on your mobile phone or tablet

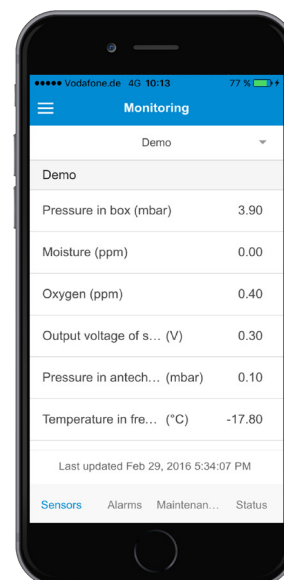
Notifications when alarms

Direct contact with your local MBRAUN partner

Videos for preventive maintenance tasks

Automatic schedule of your preventive maintenance

Notifications when maintenance tasks are overdue



SOLVENT FILTERS

SOLVENT FILTER MB-BF

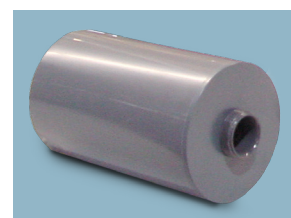
Integrated into the glovebox (instead of the outer dust filters)

Loading: Charcoal

Easy exchange of loading

Capacity*: 100 g solvent vapor

Integrated dust filter HEPA H13



SOLVENT TRAP MB-LMF

Integrated into the purifier unit or stand-alone

Easy exchange of loading with bypass hand valves linked to the vacuum pump

Loading: Charcoal

Capacity*: 500 g solvent vapor



REGENERABLE SOLVENT TRAP MB-LMF-REG

Integrated into the purifier unit or stand-alone

Regeneration program PLC-operated

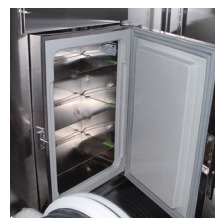
Loading: Molecular sieve

Capacity*: about 810 g solvent vapor

ACCESSORIES AND OPTIONS



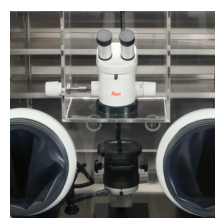
LABmaster double sided window with vacuum oven (600°C)



Integrated freezer



Mini antechamber



Integrated microscope



Vacuum oven (250°C)

STANDARD AND SPECIFIC ACCESSORIES

SENSORS

Oxygen
Moisture
Solvents
CO₂
H₂



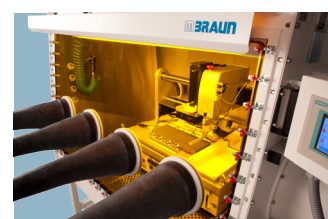
FEEDTHROUGHS

Liquid, gas, vacuum
Cables (power supply, signal)
Fiber optic
USB and other connectors
BNC, Triax for characterization
Specific feedthroughs on request



SPECIAL EQUIPMENT FOR GLOVEBOXES

Oval glove port feedthrough
Anti-static / UV-cut window
Vacuum cleaner (dust removal)
Cold well
Integration of third-part equipment



*Technical note: Depending upon operating conditions



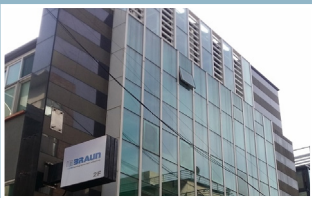
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