

MB-600-G

INERTGAS PURIFICATION SYSTEM



- Two redundant purification columns for continuous 24/7 operation
- Optimum performance for attached enclosure volumes up to:
 - 30 m³ with UDF
 - 24 m³ without UDF
- Removal of oxygen and moisture, <1 ppm
- Automated box pressure and regeneration control
- Negative and/or positive pressure operation
- PLC with multi-color touch panel display
- Optional control and safety features available

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Clean. Engineering. Expertise.

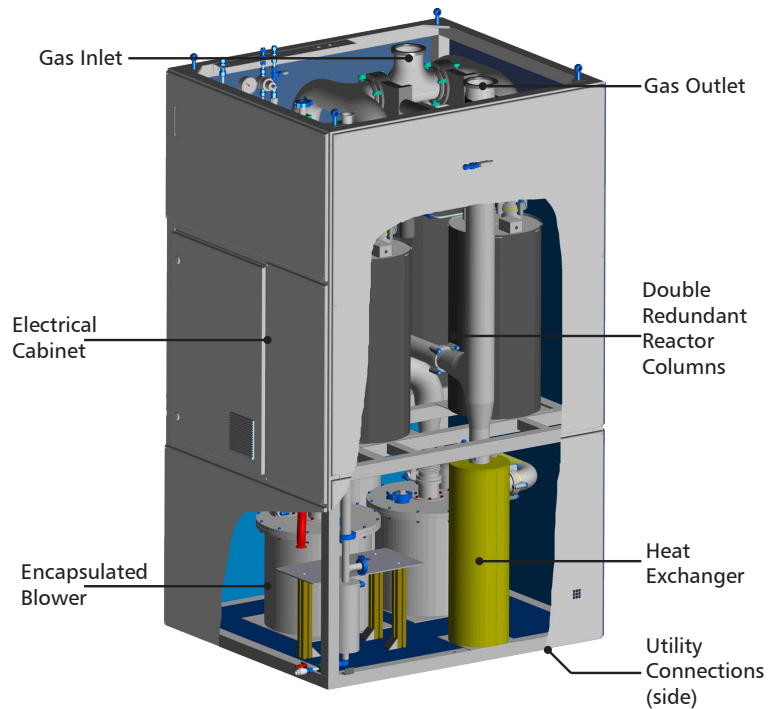
DESCRIPTION

MBRAUN's MB-600-G is a powerful gas purification system that has been specifically designed for industrial applications. The system includes four increased capacity redundant regenerable reactor columns for maintaining ultra-low levels of oxygen and moisture in inert enclosures up to 24 m³ in volume.

The MB-600-G features a robust circulation blower and vacuum pump to ensure consistent performance under the most rigorous conditions. Other features include an upgraded Siemens touch panel display and PLC control system in order to provide a greater amount of flexibility for custom integrations.

Together, the MB-600-G gas purifier with MBRAUN's proprietary oxygen and moisture analyzer probes provide accurate and consistent monitoring of your working gas atmosphere with nearly maintenance free operation.

Combined with MBRAUN's experience and worldwide reputation as the highest quality glovebox and gas purifier manufacturer, the MB-600-G's large adsorption capacity, proven reliability and superior performance make this model a great choice for your new glovebox project or existing upgrade requirements.



TECHNICAL DATA

Operation principle	Closed loop recirculation
Attainable purity level	Moisture < 1 ppm, Oxygen < 1 ppm
Max. enclosure volume w/o UDF	Up to 24 m ³
Max. enclosure volume w/ UDF	Up to 30 m ³
Number of purification lines per purifier	2
Number of reactor columns per line	2
Number of reactor columns per purifier	4
Reactor capacity per purification line*	
(O ₂) Oxygen	182 l
(H ₂ O) Moisture	8840 g
Regeneration	Automatic regeneration sequence
Control unit	Siemens PLC
Display	Large color touch panel
Box pressure control	Automatic pressure control with foot switch (±15mbar)
Vacuum pump*	Rotary vane pump with 17 m ³ /h (10 CFM)
Blower (50 Hz / 60 Hz)*	Frequency controlled up to 500 m ³ /h
Main and side piping	Stainless Steel 1.4301 (SUS 304)
Main and control valves	Electro-pneumatic
Electrical (FLA) (without options)	230 V/50-60 Hz, 14 A or 115 V/50-60 Hz, 28 A or 100 V/50-60 Hz, 32 A
Cooling water (optional)	2 - 4 bar (4-5 l/min)
Regeneration gas	N ₂ /H ₂ mix. or Ar/H ₂ mix. (H ₂ 2-10 %)
Working gas	Nitrogen, Argon or Helium
Size	1050 x 1230 x 2190 mm (LxWxH)
Weight	855 kg (without vacuum pump)
Optional feature	Moisture and oxygen analyzer
Optional feature	Solvent vapor removal
Optional feature	Regenerable solvent vapor removal
Optional feature	Recirculation chiller for optimal working environment (RCC)
Optional feature	Dry pump upgrade
Optional feature w/ MBRAUN glovebox	Automatic box purge unit
Optional feature w/ MBRAUN glovebox	Antechamber automatic pressure controlled

*Technical note: Dependent upon operating conditions.

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