

— turning ideas into solutions

mBRAUN

MB-200-G

INERT GAS PURIFICATION SYSTEM

ECO



INERTGAS TECHNOLOGY

- Double reactor columns for continuous 24/7 operation
- Optimum performance for attached enclosure volumes up to 6 m³ w/ UDF and 5 m³ w/o 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
- **ECO** Mode operation feature available
- Optional control and safety features available



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MB-200-G GAS PURIFIER



The MBRAUN MB-200-G gas purifier has been specifically designed for both university and industrial applications. Two reactor columns allow continuous operation. One regenerable reactor column per line maintains ultra-low levels of oxygen and moisture in inert enclosures.

Other features of the MB-200-G include a powerful Siemens control unit, a multi-color touch panel, vacuum pump, frequency controlled blower and an open platform so that the purifier can be easily retro-fitted with additional upgrades as it becomes necessary.

An integrated heat exchanger helps to keep the temperature inside the connected inert enclosure at optimal levels. Built on MBRAUN's high quality standards all subcomponents of the MB-200-G are made of stainless steel and are manufactured from distinguished suppliers.

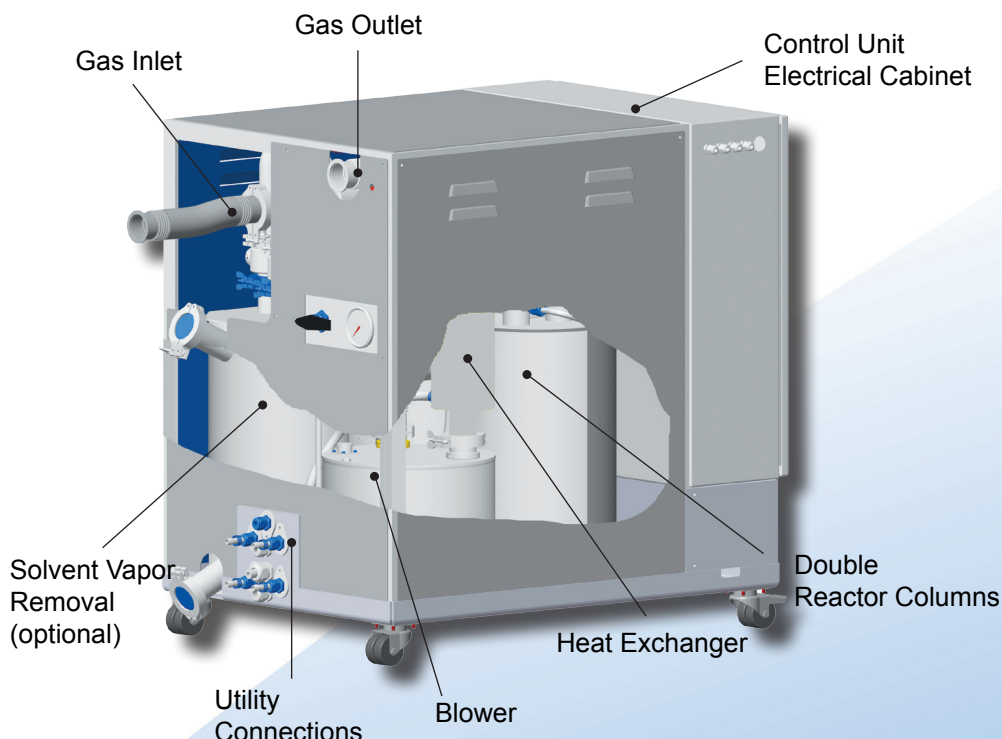
The MB-200-G can also be equipped with an energy saving **ECO Mode**. This includes an automatic blower speed reduction at night (programmable time), as well as an automatic switch off of the vacuum pump. In **ECO Mode** operation the box pressure regulation in the range ≥ 2 mbar is done without the vacuum pump.

Together, the MB-200-G 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.

Please contact us if you have questions choosing the right gas purification system for your application.



Scan this QR Code with your smart phone's bar code reader to download more information



MB-200-G TECHNICAL DATA:

Operation principle.....	Closed loop recirculation
Attainable purity level.....	Moisture < 1 ppm, Oxygen < 1 ppm
Max. enclosure volume w/o UDF.....	Up to 5 m ³
Max. enclosure volume w/ UDF.....	Up to 6 m ²
Number of purification lines per purifier.....	2
Number of reactor columns per line.....	1
Number of reactor columns per purifier.....	2
Reactor capacity per purification line*	
(O ₂) Oxygen.....	36 l
(H ₂ O) Moisture.....	1350 g
Regeneration.....	Automatic regeneration sequence
Control unit.....	Siemens PLC
Display.....	7" color touch panel
Box pressure control.....	Automatic pressure control with foot switch (± 15 mbar)
Vacuum pump*.....	Rotary vane pump with 17 m ³ /h (10 CFM)
Blower (50 Hz / 60 Hz)*.....	Frequency controlled up to 88 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, 8 A or 115 V/50-60, 16 A or 100 V/50-60 Hz, 18.5 A
Cooling water (optional).....	2 bars max., (2-5 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.....	820 mm x 600 mm x 847,5 mm (L x W x H)
Weight.....	171 kg (without vacuum pump)
Optional feature.....	Moisture and oxygen analyzer
Optional feature.....	ECO Mode
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
Optional feature w/ MBRAUN glovebox.....	Freezer and box cooling

*Technical note: Dependent upon operating conditions.

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