

# MB-300-G

## INERT GAS PURIFICATION SYSTEM



INERTGAS TECHNOLOGY

- Double reactor columns for continuous 24/7 operation
- Optimum performance for attached enclosure volumes up to 15 m<sup>3</sup> w/ UDF and 12 m<sup>3</sup> 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
- Optional control and safety features available



# MB-300-G GAS PURIFIER



MBRAUN's MB-300-G gas purifier has been specifically designed for industrial applications. Features include increased capacity regenerable double reactor columns for maintaining ultra-low levels of oxygen and moisture in inert enclosures up to 12 m<sup>3</sup> in volume.

Other features of the MB-300-G include a more robust circulation blower and vacuum pump to ensure consistent performance under the most rigorous conditions. A more comprehensive Siemens touch panel display and PLC control system in order to provide a greater amount of flexibility for custom integrations is also a standard feature.

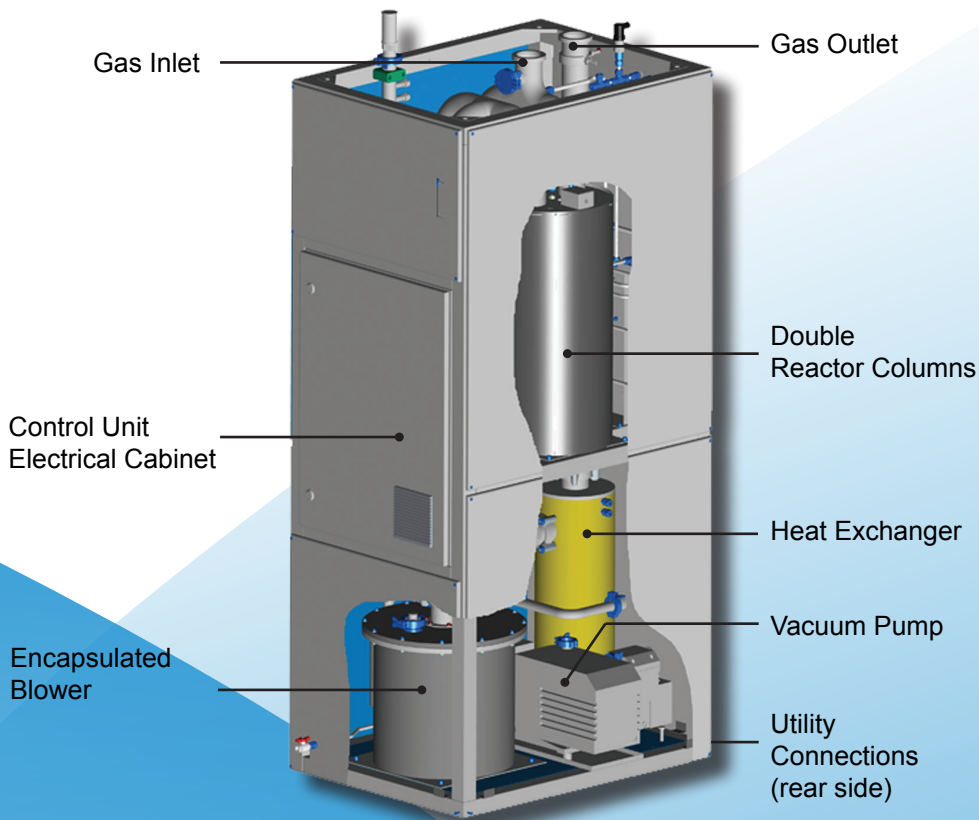
An integrated heat exchanger helps to keep the temperature inside the connected inert enclosure at optimal levels. Built on MBRAUN's high quality standards all subcomponents are made of stainless steel and are manufactured from distinguished suppliers.

MBRAUN offers a wide range of options compatible with the MB-300-G such as box purge units, solvent vapor removal, dry pumps and MBRAUN's proprietary oxygen and moisture analyzers.

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



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## MB-300-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 12 m <sup>3</sup>
Max. enclosure volume w/ UDF.....	Up to 15 m <sup>3</sup>
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 <sub>2</sub> ) Oxygen.....	91 l
(H <sub>2</sub> O) Moisture.....	4420 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 <sup>3</sup> /h (10 CFM)
Blower (50 Hz / 60 Hz)*.....	Frequency controlled up to 250 m <sup>3</sup> /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, 11 A or 115 V/50-60, 22 A or 100 V/50-60 Hz, 25 A
Cooling water (optional).....	2 - 4 bar (4-5 l/min)
Regeneration gas.....	N <sub>2</sub> /H <sub>2</sub> mix. or Ar/H <sub>2</sub> mix. (H <sub>2</sub> 2-10 %)
Working gas.....	Nitrogen, Argon or Helium
Size.....	730 mm x 980 mm x 2040 mm (L x W x H)
Weight.....	475 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.

**M. Braun Inertgas-Systeme GmbH (Headquarters)**  
 Dieselstr. 31 · 85748 Garching · Germany  
 Phone: +49 89 32669-0 · Fax: +49 89 32669-105  
 Web: [www.mbraun.com](http://www.mbraun.com) · E-mail: [info@mbraun.de](mailto:info@mbraun.de)

**M. Braun Incorporated**  
 14 Marin Way · Stratham, NH · 03885 · USA  
 Phone: +1 603 773-9333 · Fax: +1 603 773-0008  
 Web: [www.mbraun.com](http://www.mbraun.com) · E-mail: [info@mbraunusa.com](mailto:info@mbraunusa.com)