

**MB-10-G COMPACT**  
**INERT GAS PURIFICATION SYSTEM**



**INERTGAS TECHNOLOGY**

- Compact, Powerful, and Reliable
- Optimum performance for attached enclosure volumes up to 2 m<sup>3</sup>
- Removal of oxygen and moisture, <1 ppm
- Negative and/or positive pressure operation
- Foot pedal switch for temporary pressure adjustment
- Micro controller with large multi color touch panel 7"
- **ECO** Mode operation feature available
- Optional control and safety features available



MBRAUN's MB-10-G gas purifier is a compact, affordable, and powerful solution to achieving and maintaining ultra-low levels of oxygen and moisture when your research requires an inert environment.

MBRAUN offers a wide range of options compatible with the MB-10-G such as box purge units, solvent vapor removal and MBRAUN's own solid state oxygen and moisture analyzers.

Built on MBRAUN's high quality standards all subcomponents of the MB-10-G are made of stainless steel and are manufactured from distinguished suppliers.

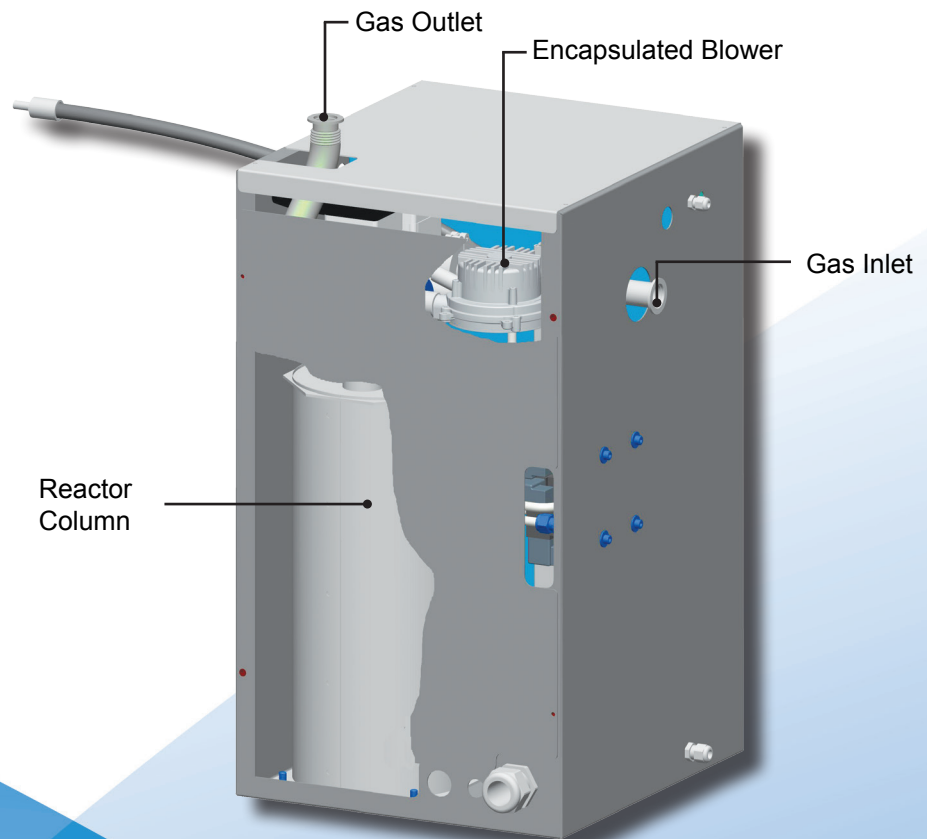
The MB-10-G can also be equipped with an energy saving **ECO Mode**. This includes an automatic blower speed reduction at night (programmable time), as well as an automatic switch off of the vacuum pump. In **ECO Mode** operation the box pressure regulation in the range  $\geq 2$  mbar is done without the vacuum pump.

Together, the MB-10-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.

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-10-G TECHNICAL DATA:

Operation principle .....	Closed loop recirculation
Attainable purity level .....	Moisture < 1 ppm, Oxygen < 1 ppm
Recommended enclosure volume .....	Up to 2 m <sup>3</sup>
Number of purification lines per purifier .....	1
Number of reactor columns per line .....	1
Number of reactor columns per purifier .....	1
Reactor capacity per purification line*	
(O <sub>2</sub> ) Oxygen .....	20 l
(H <sub>2</sub> O) Moisture .....	900 g
Regeneration .....	Automatic regeneration sequence
Control unit .....	PLC - M. Braun
Display .....	Large color touch panel
Box pressure control .....	Automatic pressure control with foot switch ( $\pm 15$ mbar)
Vacuum pump* .....	Rotary vane pump with 17 m <sup>3</sup> /h (10 CFM)
Blower (50 Hz / 60 Hz)* .....	Variable speed up to 22 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, 6 A or 115 V/50-60, 12 A or 100 V/50-60 Hz, 13 A
Cooling water (optional) .....	-
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 .....	472 mm x 459 mm x 705 mm (L x W x H)
Weight .....	50 kg (without vacuum pump)
Optional feature .....	Moisture and oxygen analyzer
Optional feature .....	ECO Mode
Optional feature .....	Solvent vapor removal
Optional feature .....	Dry pump upgrade
Optional feature w/ MBRAUN glovebox .....	Box Purge function
Optional feature w/ MBRAUN glovebox .....	Antechamber automatic (time controlled)
Optional feature w/ MBRAUN glovebox .....	Freezer

\*Technical note: Dependent upon operating conditions

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