

MB-20-G INERT GAS PURIFICATION SYSTEM



- Single reactor column on mobile platform
- Optimum performance for attached enclosure volumes ≤ 5 m³
- Removal of oxygen and moisture, <1 ppm
- Automated box pressure and regeneration control
- Negative and/or positive pressure operation
- PLC with large multi-color touch panel display
- ECO Mode operation feature available
- Optional control and safety features available





MB-20-G GAS PURIFIER



MBRAUN'S MB-20-G gas purifier is a mobile inert gas purification system that achieves and maintains ultra-low levels of oxygen and moisture in inert enclosures.

Other features of the MB-20-G include a powerful Siemens control unit, multi-color touch panel display, 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-20-G are made of stainless steel and are manufactured from distinguished suppliers.

The MB-20-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.

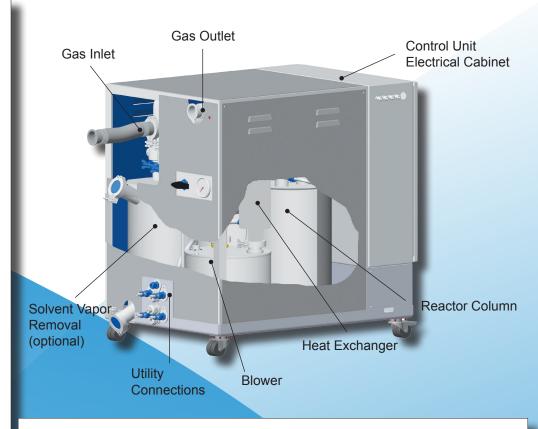
Operation principle

Together, the MB-20-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.



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MB-20-G TECHNICAL DATA:

Closed loop recirculation

Operation principle	Closed loop recirculation
Attainable purity level	
Recommended enclosure volume	Up to 5 m ³
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 ₂) Oxygen	36
(H¸O) Moisture	
Regeneration	Automatic regeneration sequence
Control unit	Siemens PLC
Display	Large multi-color touch panel
Box pressure control	Automatic pressure control with foot switch (±15 mbar)
Vacuum pump*	Rotary vane pump with 17 m ³ h ⁻¹ (10 CFM)
Blower (50 Hz / 60 Hz)*	
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, 6.4 A,115 V/50-60 Hz, 13 A, 100 V/50-60 Hz, 15 A
Cooling water (optional)	2 bar, (3-5 l/min)
Regeneration gas	
Working gas	
Size	
Weight	140 kg (without vacuum pump)
Optional feature	
Optional feature	ECO Mode (with new panel)
Optional feature	
Optional feature	
Optional feature	Recirculation chiller for optimal working environment (ULK)
Optional feature	Dry pump upgrade
Optional feature w/ MBRAUN glovebox	Automatic box purge unit
Optional feature w/ MBRAUN glovebox	Antechamber automatic (AC cycle), Interlock (door lock)
Optional feature w/ MBRAUN glovebox	Freezer or box cooling

*Dependent upon operating conditions. For details refer to http://www.mbraun.com/knowledge-center

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MB-200-G INERT GAS PURIFICATION SYSTEM



- Double reactor columns for continuous 24/7 operation
- Optimum performance for attached enclosure volumes up to 5 m³
- 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





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.

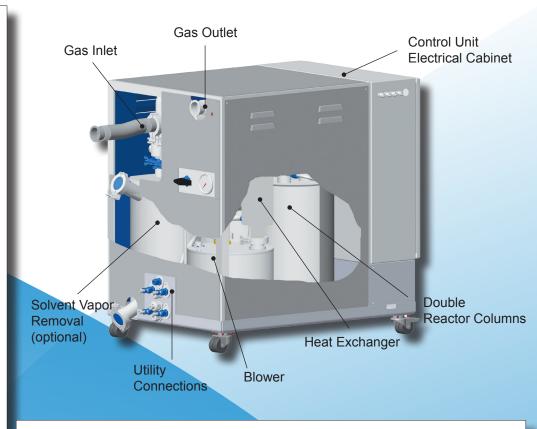
Together, the MB-200-G purifier with MBRAUN's proprietary oxygen and moisture analyzer probes provide accurate and consistent monitoring of your working gas atmosphere with nearly maintenance free operation.

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



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MB-200-G TECHNICAL DATA:

Operation principle	. Closed loop recirculation
Attainable purity level	
Recommended enclosure volume	. Up to 5 m ³
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 I
(H ₂ O) Moisture	. 1300 g
Regeneration	
Control unit	. Siemens PLC
Display	
	. Automatic pressure control with foot switch (±15 mbar)
Vacuum pump*	
Blower (50 Hz / 60 Hz)*	
Main and side piping	
Main and control valves	
	. 230 V/50-60 Hz, 8 A,115 V/50-60 Hz, 16 A, 100 V/50-60 Hz, 18.5 A
Cooling water (optional)	
	. N ₂ /H ₂ mix. (H ₂ 2-10 %) or Ar/H ₂ mix. (H ₂ 2-10 %)
Working gas	
Size	
Weight	
Optional feature	
•	Recirculation chiller for optimal working environment (RCC)
Optional feature	
Optional feature w/ MBRAUN glovebox	
	. Antechamber automatic (AC cycle), Interlock (door lock)
Optional feature w/ MBRAUN glovebox	. Freezer or box cooling

*Technical note: Dependent upon operating conditions. For details refer to http://www.mbraun.com/knowledge-center

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MB-300-G INERT GAS PURIFICATION SYSTEM



- Double reactor columns for continuous 24/7 operation
- Optimum performance for attached enclosure volumes up to 12 m³
- 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 m³ 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.

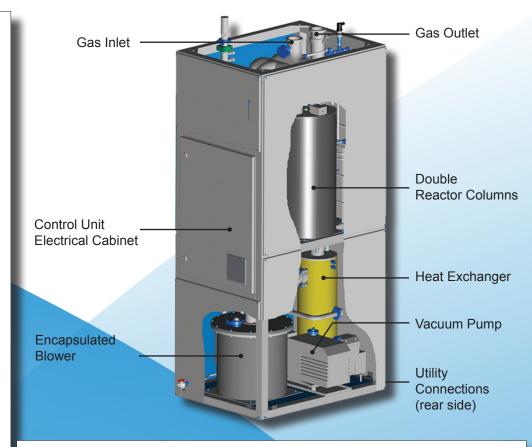
An integrated heat exchanger helps to keep the temperature inside the connected inert enclosure at optimal levels. Built on MBRAUN's high quality standards all subcomponents are made of stainless steel and are manufactured from distinguished suppliers.

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	
Attainable purity level	. Moisture <1 ppm, Oxygen <1 ppm
Recommended enclosure volume	Up to 12 m ³
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	. 91 I
(H ₂ O) Moisture	. 4000 g
Regeneration	Automatic regeneration sequence
Control unit	. Siemens PLC
Display	Large multi-color touch panel
	Automatic pressure control with foot switch (±15 mbar)
Vacuum pump*	. Rotary vane pump with 25 m ³ h ⁻¹ (14.5 CFM)
Blower (50 Hz / 60 Hz)*	. Frequency controlled with speed up to 250 m³/h
Main and side piping	
Main and control valves	
Electrical (FLA) (without options)	. 230 V/50-60 Hz,11 A,115 V/50-60 Hz, 22 A, 100 V/50-60 Hz, 25 A
Cooling water (optional)	2 bar, (4-5 l/min)
	. N ₂ /H ₂ mix. (H ₂ 2-10 %) or Ar/H ₂ mix. (H ₂ 2-10 %)
Working gas	
Size	(L) 730 mm, (W) 980 mm, (H) 2040 mm
Weight	
Optional feature	
Optional feature	. Solvent vapor removal (internal and external)
Optional feature	
Optional feature	Recirculation chiller for optimal working environment (RCC)
Optional feature	. Dry pump upgrade
Optional feature w/ MBRAUN glovebox	. Automatic box purge unit
	. Antechamber automatic (AC cycle), Interlock (door lock)
Optional feature w/ MBRAUN glovebox	
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