

HIGH PRESSURE (HP) GAS PURIFIERS MB100HP, MB 500HP, MB 2500HP



- Pre-purification of an in-house gas supply
- Dry gas supply (inert gas) for purge boxes
- In connection with a compressor for the recirculation of pneumatic operation gases for applications in inert gloveboxes
- Special applications on request (e.g. removal of moisture and other contaminations from ambient air)

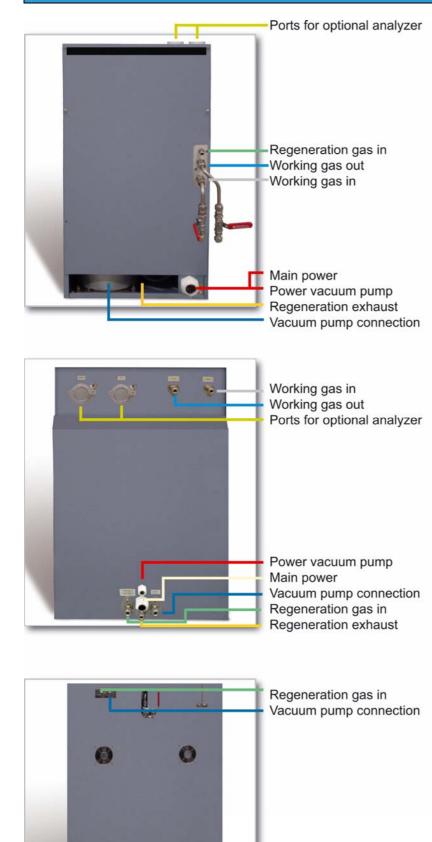
GAS PURIFIERS



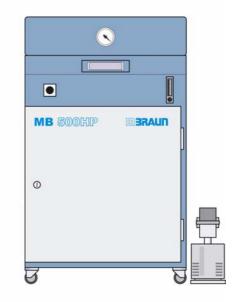
Purification									
Moisture:	The adsorber utilizes a Zeolite based molecular sieve. The obtainable purity for H ₂ O is better than 1 ppm. The system is also capable of removing small quantities of residual hydrocarbons.								
Oxygen:	The removal of Oxygen is performed by means of a copper catalyst.								
System design									
Filter columns:			is Purifier is a generation of						
	<u> </u>			Technica	I Data				
	MB 100HP			MB 500HP			MB 2500HP		
Size:	width: 471 mm	height: 750 mm	depth: 500 mm	width: 600 mm	height: 1070 mm	depth: 875 mm	width: 700 mm	height: 1105 mm	depth: 1800 mm
Weight:	120 kg 230 kg 380 kg								
Filter type:	Stainless Steel dual filter columns								
Filter loading:	Molecular sieve and copper-catalyst								
Flow rate:	cont. flow 100 NI/min, * peak 200I/min (e.g. 16 I/min @ 6 bar) * =Gas flow at standard condition (25°C, 1013mbar)			cont. flow 500 NI/min, * peak 750I/min (e.g. 83 I/min @ 6 bar) * =Gas flow at standard condition (25°C, 1013mbar)			cont. flow 2500 NI/min, * peak 3000I/min (e.g. 417 I/min @ 6 bar) * =Gas flow at standard condition (25°C, 1013mbar)		
Working gas inlet pressure:				`	2 - 6 bar		`		
Power consumption:	1.5 kW			1.8 kW			9.0 kW		
Power supply:	230V / 50 Hz or 115 V / 60 Hz								
Regeneration	4 l/min			15-20 l/min			75-100 l/min (12, 19, m³/rogeneration)		
gas: Gas Specificati	(1 m³/regeneration) (3.6 m³/regeneration) (13-18 m³/regeneration)							ration)	
Inlet gas quality:	Gas quality: 99.996% (4.6) - 99.999% (5.0), oil-free, free of particles O ₂ concentration: <= 10ppm for continuous operation (max. 14hours)								
Outlet gas quality:	O_2 concentration <1 ppm @ 100 NI/min H ₂ 0 concentration <1 ppm @ 100 NI/min								
For special applications:	on request								

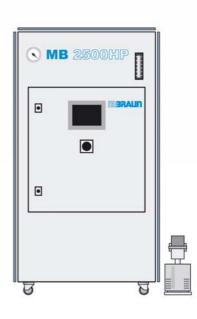
GAS PURIFIERS

Utilities









GAS PURIFIERS

Our Products at a Glance

From the compact or modular laboratory workstation to the large-scale system for industrial production, MBRAUN offers the right solution for every area of application.

Modular gloveboxes, high-performance gas purification systems (purity: <1 ppm H_2O , <1 ppm O_2 or <1 ppm N_2) and a large number of modular auxiliary equipment items are the basis on which individual systems with PLC control can be assembled.

Standard products

-Workstations Labstar Unilab Labmaster sp / dp

- -Modular boxes MOD type series
- -Industrial boxes
- -Special boxes, encapsulation enclosures
- -Vacuum antechambers Cylindrical design

Rectangular design

-Gas purification systems, closed circulation principle

Removal of O_2 - H_2O - N_2 - CO_2 Flow rates 15 m³/h to 180 m³/h Special gas recovery systems

-Gas purification systems, continuous-flow Removal of O_2 - H_2O Flow rates from 100 l/min to 1000 l/min

- -Solvent purification systems (SPS)
- -Solvent absorption traps Chemical adsorption principle Cryogenic principle
- -Heat treatment ovens
- -Particle removal units
- -Box Integrated ovens, temperature up to 600 °C
- -High temperature vacuum ovens up to 2500 °C
- -Oxygen analyzers 1000 ppm 25 %
- -Oxygen analyzers <1 ppm 1000 ppm
- -Moisture analyzers <1 ppm 500 ppm
- -Box integrations
- Microscopes

Thermal-analysis measuring equipment

Spin coaters

- Thin film deposition systems
- -Customer-specific special production lines Inertgas systems for laser welding technology Inertgas systems for lithium battery production Inertgas systems for discharge lamp production -Process automation
- -Process visualization
- -Process handling
- Special facilities for Inc
- -Special facilities for Inertgas systems

The designs and operating principles of MBRAUN products are ideally matched, providing scope for subsequent system extensions.

MBRAUN

M. Braun Inertgas-Systeme GmbH Head-Office Germany • Dieselstr. 31, D-85748 Garching • Phone: +49(0) 89-3 26 69-0 Fax: +49(0) 89-3 26 69-105 • E-Mail: info@mbraun.de

M. Braun Inc. USA • 14 Marin Way, Stratham, NH 03885 • Phone: +1-603-773-9333 • Fax: +1-603-773-0008 • E-Mail: info@mbraunusa.com

M. Braun Inertgas Systems (Shanghai) Co., Ltd. China • 828 Xin Jinqiao Road • Pudong Shanghai 201206, P.R.C. Phone: +86-21-50320257 • Fax +86-21-50320229 • E-Mail: info@mbraunchina.com

M. Braun Service Japan • Yoshikawa building, 3rd floor • 6-32 Honcho, Wako-shi • Saitama 351-0114 • Phone: +81-48-452-6367 • Fax: +81-48-452-6368 Internet www.mbraun.com • www.mbraun.de • www.mbraunchina.com