

MB300 IGMS & MB600 IGMS

INERT GAS PURIFICATION SYSTEM



INERTGAS TECHNOLOGY

- The market standard in high efficiency gas purifiers
- Introduced to the market in 2008 – now in its 2nd generation
- Developed specifically for the demands of OLED manufacturing
- Available in Reduced Height version (RH)
- Unmatched safety, automation and capacity characteristics
- For industrial enclosures up to 24 m³ without UDF and 30 m³ with UDF
- Attainable purity of oxygen and moisture < 1 ppm





Standard Height Versions

Reduced Height Versions



The rise of OLED technology from R&D to large scale manufacturing defined the demands of enhanced inert gas equipment. Addressing this marked driven need the MBraun gas purification system MB600 IGMS was developed with the goal to purify industrial inert gas enclosures of up to 20m³ whilst ensuring the well-established MBraun IGMS concept.

Utilizing MBraun's standardized components of the MB300 IGMS such as filter units, blowers, heat exchangers and control units aligned with the proven IGMS operating software ensures a high reliability and a stable performance.

All process relevant parameters like oxygen, moisture and pressure are monitored by MBraun's proprietary designed sensors.

In contrast to other commonly available gas purifiers the IGMS features a full control of all connected utilities like working gas, control gas and regeneration gas.

Functions like the automatic leak test (ALAS) and the automatic purge function offer a maximum of process reliability.

For restricted spaces a compact version is available – the MB600 IGMS-RH. Its reduced overall height and a reinforced frame with castors the MB600 IGMS RH allows easy move in and uncomplicated installation.

With its capacity and flexibility offered by additional options the MB600 IGMS is the system of choice to fulfill the requirements of industrial OLED production.

MB300 IGMS & MB600 IGMS TECHNICAL DATA:

	MB300 IGMS	MB600 IGMS
Performance		
Max. enclosure volume w/o UDF	Up to 12 m ³	Up to 24 m ³
Max. enclosure volume w/ UDF	Up to 15 m ³	Up to 30 m ³
Blower capacity*	Frequency controlled up to 250 m ³ /h	Frequency controlled up to 500 m ³ /h
Purity O ₂	< 1 ppm	< 1 ppm
Purity H ₂ O	< 1 ppm	< 1 ppm
Capacity O ₂ *	182 l	364 l
Capacity H ₂ O*	8840 g	17680 g
Capacity LMF-AUTO (optional)	4800 g	9600 g
Sensors		
O ₂ ppm	•	•
O ₂ %	•	•
H ₂ O ppm	•	•
Pressure sensor	•	•
Solvent sensor	○	○
Utility monitoring	•	•
Features		
Automatic purge	Up to 500 l/min.	Up to 500 l/min.
ALAS leak test	•	•
Trend diagram H ₂ O/O ₂ ppm	•	•
Trend diagram box pressure	•	•
Automatic regeneration	•	•
Mitsubishi control (Q-series)	•	•
Color touch panel	•	•
Dry vacuum pump	•	•
Options		
Integrated 2-Box Operation	○	○
Integrated 3-Box Operation	○	○
MB-QP (Quick purge)	○	○
MB-APU (Air purge)	○	○
MB-SAPU	○	○
Vacuum interlock	○	○
VCR fittings	○	○
Height		
Standard configuration	1935 mm	2058 mm
Dimensions RH version	1470 mm	1650 mm

*Technical note: Dependent upon operating conditions