



## BENCHMARK® GP-500A Gas Purification System

GP-500A is a 30 CFM standalone, automatic, regenerating, dual column inert gas purification system designed to continuously recirculate process gas from a glovebox through a filter column containing a mixture of oxygen and moisture getters. This closed-loop filtration process can achieve an ultra dry gas environment of about 1 ppm moisture and oxygen when integrated with typical AMADA WELD TECH BENCHMARK® gloveboxes.

GP-500A Plus has a 3.1 inch touch screen LCD display with built-in shortcut function keys which allows single button filter column selection or regeneration.

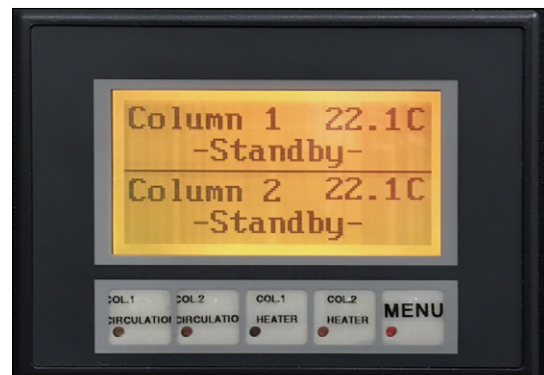
Also available in single and dual column manual configurations, the GP-500A's modular, low profile design means it can be easily integrated into most gloveboxes on the market.

### ADVANTAGES

- Achieves ultra low oxygen and moisture environment levels quickly
- Closed-loop gas circulation for decreased process gas consumption
- Single push button automatic regeneration of filter media
- Quick glovebox integration using industry standard KF-40 flange connectors
- Modular, low profile design
- Single and dual column manual or automatic models

### APPLICATIONS

- Ultra dry nitrogen or compressed dry air (CDA) welding environment for hermetic sealing electronic packages
- Recycling expensive glovebox process gas like argon while maintaining ultra dry environment conditions for laser welding applications like titanium, stainless steel and aluminum.



GP-500A PLUS front panel interface

**TECHNICAL SPECIFICATIONS**

<b>* Moisture and Oxygen</b>	Moisture level: 3 ppm (-70 dp°C) typically expected after 3 days of operation
	Oxygen level: 3 ppm typically expected after 3 days of operation
<b>Certification</b>	CE compliant

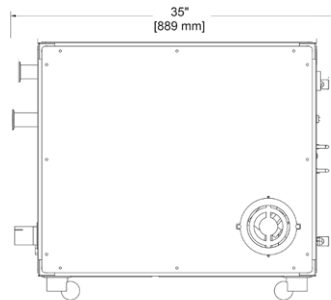
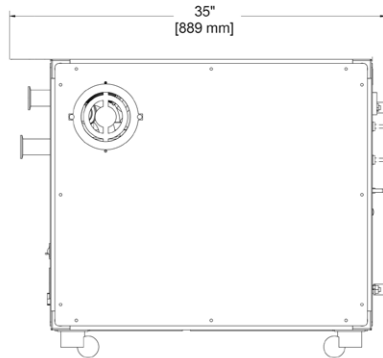
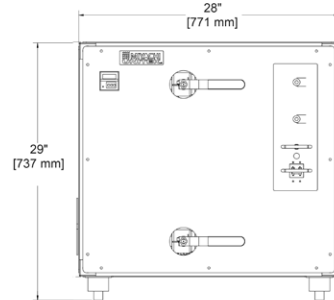
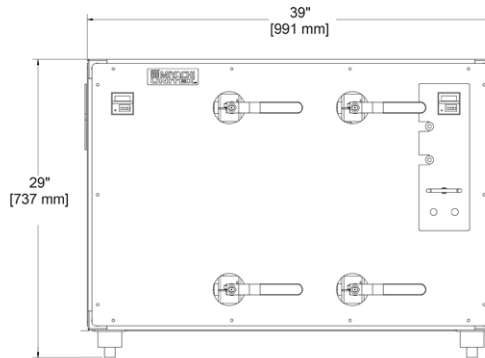
\* Absorption rate test was based on an empty AX5000 56" glovebox, absorption rate is expected to decrease when equipment is in the glovebox.

**FACILITY REQUIREMENTS**

<b>Power</b>	Single phase 208-240 VAC, 20 A, 50/60 Hz
<b>Regeneration forming gas</b>	5% hydrogen 95% nitrogen (at least 270 cu ft / regeneration) 3/8" polyflow tube
<b>Regeneration purge gas</b>	100% nitrogen or argon (at least 15 cu ft / regeneration) 3/8" polyflow tube
<b>Cooling water</b>	12 to 30°C at a minimum flow rate of 1/2 GPM (1.9 LPM) 3/8" polyflow tube The installation area should be free of sudden temperature fluctuations and humidity should be ≤85% (non-condensing)
<b>Gas circulation port</b>	NW40 flange x 2

**WEIGHT & DIMENSIONS**

	<b>GP-500A-M- SINGLE (Single Column Manual)</b>	<b>GP-500A-M- DUAL (Dual Column Manual)</b>	<b>GP-500A-P-DUAL ("PLUS" Dual Column Automatic)</b>
<b>Dimensions (W x D x H)</b>	28 in x 35 in x 29 in (771 mm x 889 mm x 737 mm)	39 in x 35 in x 29 in (991 mm x 889 mm x 737 mm)	39 in x 35 in x 29 in (991 mm x 889 mm x 737 mm)
<b>Weight</b>	300 lb (136 kg)	400 lb (181 kg)	400 lb (181 kg)

**GP-500A-M-SINGLE****GP-500A-M-DUAL****USA Headquarters and Western Technical Center**

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