LABORATORY PURE AIR GENERATOR TECHNICAL DATASHEET

"OR P" pure air generator produces pure, hydrocarbon free and dry air, with a very low dew point (-50°C).

The **"OR P"** generator functioning consists in removing hydrocarbons from the air stream through a catalytic reactor which is followed by a PSA system for removing carbon dioxide and a drying tower, which allows a complete removal of water vapour.

		OR P01	OR P02	OR P03	OR P04
Flow rate	Nl/min	4	8	16	32
Max output pressure	bar	9			
Residual hydrocarbons concentration HC	ppm	<0.1			
Residual carbon monoxide CO	ppm	<0.5			
Residual carbon dioxide CO_2	ppm	<0.5			
Outlet air dew point	°C	-50			
Air supply	Compressed air up to 10 bar				
Power supply	230V AC - 50/60 Hz				
Power consumption	Wh	1100	1100	1800	1800
Dimensions	mm	360x760x590h			
Gas connection	1/8 SWAGELOK				

Provided data are indicative and may change without notice.

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LABORATORY NITROGEN GENERATORS TECHNICAL DATASHEET

		GA T2	GA T4	GA T6	GA T8	GA T10
Production range	Nl/min	15.5 - 1.9	31 - 3.8	46.5 - 5.7	62 - 7.6	77.5 - 9.5
Purity range	%	98-99.999				
Standard output pressure	bar	6-8	6-8	6-8	6-8	6.8
Power supply		110-120V 60Hz / 220-240V 50Hz				
Interface		Color 3.5” touch screen display				
Dimensions	mm	440 x 855 x 760h				
Connection		RS 485, Ethernet				
Gas connection		1/4 GAS input air/output N_2				

GA generators work in complete autonomy, producing onlythe requested amount of gas with no waste.

GA is available in five models with different flow rates and different purity levels, to satisfy every laboratory's need. One of the unique advantages of **GA generators** is the modularity, which allows users to increase production in case of need, simply by adding one or more modules.

The Nitrogen gas produced is employed in different analysis,such as: GC, LCMS, ICP, thermal analysis and every other laboratory application which requires Nitrogen. Moreover, Nitrogen can be used as a carrier gas or for solvent blanketing.

GA generators can be equipped with an optional catalytic oven for a hydrocarbon-free Nitrogen.

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LABORATORY HYDROGEN GENERATORS
Technical datasheet - MA D Series

MA Hydrogen generators are designed to satisfy the needs of research and analysis laboratories, always assuring the maximum ease of use and the highest gas purity.

MA Hydrogen generators use PEM technology (Proton Exchange Membrane), which produces compressed, extra-pure hydrogen without the need for any external purification or compressor systems. **MA** generators only require an electrical supply and distilled water, no caustic solutions are used.

MA Hydrogen generators are ideal for every laboratory application: as a gas carrier for **GC-FID/GC-NPD/GC-TCD**, as a reagent gas for **GC-ELCD/GC-HALL** or as a collision gas for **ICP-MS**. Moreover, the high purity of the hydrogen produced from **MA** generators makes them ideal for use with fuel cells and their metal hydride storage.

MA Hydrogen generators are designed to satisfy every laboratory's need, always ensuring maximum ease of use and the highest gas purity.

With flow rate from 150 to 1200 mL/min, **MA hydrogen generators** can satisfy every laboratory's gas need.

Furthermore we can design custom products to always ensure maximum flexibility.

MA Hydrogen generators are equipped with a touchscreen display that shows, in real time, the output pressure, self-diagnostic functions with hydrogen leak detection, water level and gas quality alarms, plus Ethernet and RS 485 connections.

Output pressure is electronically adjustable using the display up to 10 bar.

MA Hydrogen generators are set up to be connected in parallel.

The "D" version of MA Hydrogen generators has a self-regenerating TSA drying system, to minimize servicing whilst maintaining high levels of gas quality.

TECHNICAL FEATURES

		MA 150D	MA 250D	MA 400D	MA 600D	MA 800D	MA 1000D	MA 1200D
Production capacity	**ml/min**	150	250	400	600	800	1000	1200
Output pressure	**bar**	0.1-10 (12 optional)						
Purity	**%**	99.99999						
Power supply		110-120V 60Hz / 220-240V 50Hz						
Interface		Color 3.5" touch screen display						
Dimensions	**mm**	245 x 400 x 500h						
Weight	**kg**	25	25	25	26.5	26.5	28	28
Communication		RS 485, Ethernet						
Gas connection		1/8 SWAGELOK						

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LABORATORY HYDROGEN GENERATORS
Technical datasheet - MA N Series

MA Hydrogen generators are designed to satisfy the needs of research and analysis laboratories, always assuring the maximum ease of use and the highest gas purity.

MA Hydrogen generators use PEM technology (Proton Exchange Membrane), which produces compressed, extra-pure hydrogen without the need for any external purification or compressor systems. **MA** generators only require an electrical supply and distilled water, no caustic solutions are used.

MA Hydrogen generators are ideal for every laboratory application: as a gas carrier for **GC-FID/GC-NPD/GC-TCD**, as a reagent gas for **GC-ELCD/GC-HALL** or as a collision gas for **ICP-MS**. Moreover, the high purity of the hydrogen produced from **MA** generators makes them ideal for use with fuel cells and their metal hydride storage.

MA Hydrogen generators are designed to satisfy every laboratory's need, always ensuring maximum ease of use and the highest gas purity.

With flow rate from 150 to 1200 mL/min, **MA hydrogen generators** can satisfy every laboratory's gas need.

Furthermore we can design custom products to always ensure maximum flexibility.

MA Hydrogen generators are equipped with a touchscreen display that shows, in real time, the output pressure, self-diagnostic functions with hydrogen leak detection, water level, plus Ethernet and RS 485 connections.

Output pressure is electronically adjustable using the display up to 6 bar.

MA Hydrogen generators are set up to be connected in parallel.

The "N" version of Mars Hydrogen generators has a drying cartridge, which does not need any maintenance, to provide the highest gas quality at the most cost effective price.

TECHNICAL FEATURES

		MA 150N	MA 250N	MA 400N
Production capacity	**ml/min**	150	250	400
Output pressure	**bar**	0,1-8		
Purity	**%**	99,9999		
Power supply		110-120V 60Hz / 220-240V 50Hz		
Interface		Color 3.5" touch screen display		
Dimensions	**mm**	245 x 460 x 500h		
Weight	**kg**	23	23	23
Gas connection		1/8 SWAGELOK		
Communication		RS485-USB. PC control, LAN Ethernet		

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