

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

Provided data are indicative and may change without notice.