

MARS H₂ GENERATOR



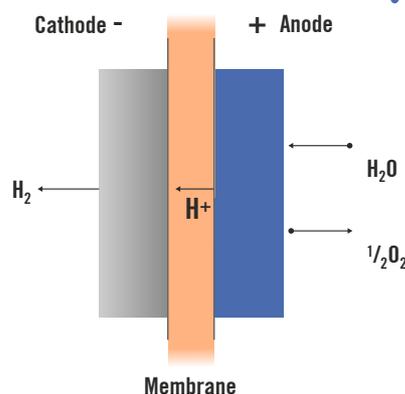
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**LABORATORY
HYDROGEN
GENERATORS**

DESIGNED FOR YOUR LABORATORY



PEM electrolysis



MARS 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.

MARS Hydrogen generators use PEM technology (Proton Exchange Membrane), which produces compressed, extra-pure hydrogen without the need for any external purification or compression system.

MARS generators only require an electrical supply and distilled water, no caustic solutions are used.

MARS 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 **MARS** generators makes them ideal for use with fuel cells and their metal hydride storage.

Using a gas generator instead of gas cylinders has many advantages: savings on gas cost and cylinder rental, no machine down time to swap cylinders nor for desiccant cartridges maintenance.

With flow rate from 150 to 1200 ml/min, **Mars Hydrogen generators** can satisfy every laboratory's gas need.

Furthermore **ErreDue** can design custom products to always ensure maximum flexibility.

Mars Hydrogen generators are equipped with a touchscreen display that shows in real time flow rate and output pressure, self-diagnostic functions with alarms for leak detection and water level. Furthermore, thanks to the

RS485 and Ethernet connections, **Mars** Hydrogen generators can be easily connected to any remote monitoring device.

Mars Hydrogen generators are set up to be connected in parallel, with no need for optional components.

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

Mars Hydrogen generators are available in 2 versions:

- The "**N**" version, available with flow rate up to 400mL/min, is equipped with a cartridge dryer, for easy maintenance.
- The "**D**" version, available on all models, is equipped with a self-regenerating TSA dryer which is maintenance free.



TECHNICAL FEATURES

		MARS 150	MARS 250	MARS 400	MARS 600	MARS 800	MARS 1000	MARS 1200
Production Capacity	ml/min	150	250	400	600	800	1000	1200
Maximum Gas Pressure	bar	6 bar (N version) - 10 bar (D version)						
Gas Purity	%	99,99999						
Power Supply		110-120V 60Hz / 220-240V 50Hz						
User Interface		Color 3,5" touch screen display						
Connections		RS 485, Ethernet						
Dimensions	mm	225 x 390 x 422h						
Weight	kg	17	17	20	22,5	22,5	25	25



DESIGNED TO SATISFY EVERY LABORATORY'S NEED

**MARS HYDROGEN GENERATORS ARE DESIGNED AND
MANUFACTURED IN ITALY BY**



Via G. Gozzano, 3 - 57121 Livorno - Italy
Tel. +39 0586 444066 | Fax +39 0586 444212

www.erreduegas.it

