

# MARS H<sub>2</sub> GENERATOR



ErreDue s.p.a.

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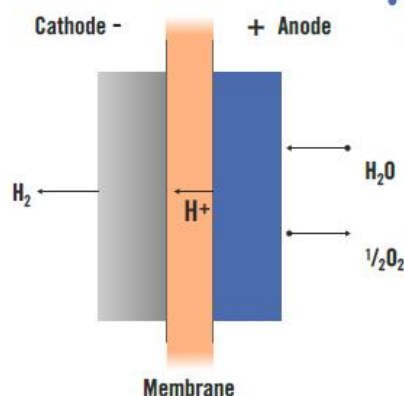
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## LABORATORY HYDROGEN GENERATORS

# 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, 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.

The drying system is self-regenerating, to minimize servicing whilst maintaining high levels of gas quality.

**Mars Hydrogen generators** are set up to be connected in parallel.



## 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
Gas Pressure	bar	Electronically adjustable between 0,1 - 10						
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



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