



H2G-200/300/500

HYDROGEN GENERATORS



MaterialsMates Italia



A real breakthrough in handy and intrinsically-safe generation of optimized H₂ flows for the modern lab requirements

The source of energy for the future, hydrogen, is causing today some troubles in the laboratory worldwide.

More stringent safety rules are pushing the high-pressure bombs out of the buildings, with costly transfer lines to the users' point.

The gas system is then approved and yearly checked for the utmost safety against explosions.

To cut time and cost the hydrogen generator is a must-have equipment in any laboratory dealing with gases.

Our units are sturdy, simple yet safe workhorses for continuous use.

Able to deliver up to 500 ml/min at up to 5 Bar pressure, they require small space and low maintenance.

The cold-finger option is then freeing you from the periodical regeneration of the silica dryer, for a fail-safe continuous work on long runs.

Contact us, and talk to a specialist to find out more on our solutions: you will be pleased by the aggressive price-to performance ratio !



Specifications

Item	LM-200	LM-300	LM-500
Purity	>99.99%	>99.99%	>99.99%
Flow rate	200ml/min	300ml/min	500ml/min
Delivery pressure	20-450KPa	20-450KPa	20-450Kpa
Water tank capacity	3L	3L	3L
Pure water	>2MΩ deionized water	>2MΩ deionized water	>2MΩ deionized water
Consumption of Pure Water	12ml/hr (200ml/min)	12ml/hr (200ml/min)	12ml/hr (200ml/min)
Power Supply	AC200-240V 50HZ-60HZ	AC200-240V 50HZ-60HZ	AC200-240V 50HZ-60HZ
Power consumption	<135W	<200W	<330W
Weight	<10Kg		
Size	W180×H370×D380(mm)		
Desiccant	Silica Gel cartridge , approx 200 cc, or cooled fins "cold finger" condensation unit		
Front panel indication	Gas out pressure (Kpa) / Flow out (cc/min) (NOTE: the flow is indicative under steady-state conditions, does not replace mass flow meters)		
Safety	Automatic pressure limitation, sensing, automatic pressure release at switch-off		
Water level	Optic level indication on front panel		
Output regulation	Highly sensitive needle valve for flow control/cutoff		
Items supplied	Operation and maintenance instructions		
	Certificate of inspection		
	Accessories (gaskets, teflon pipe, second silica cartridge)		
	Power cord		