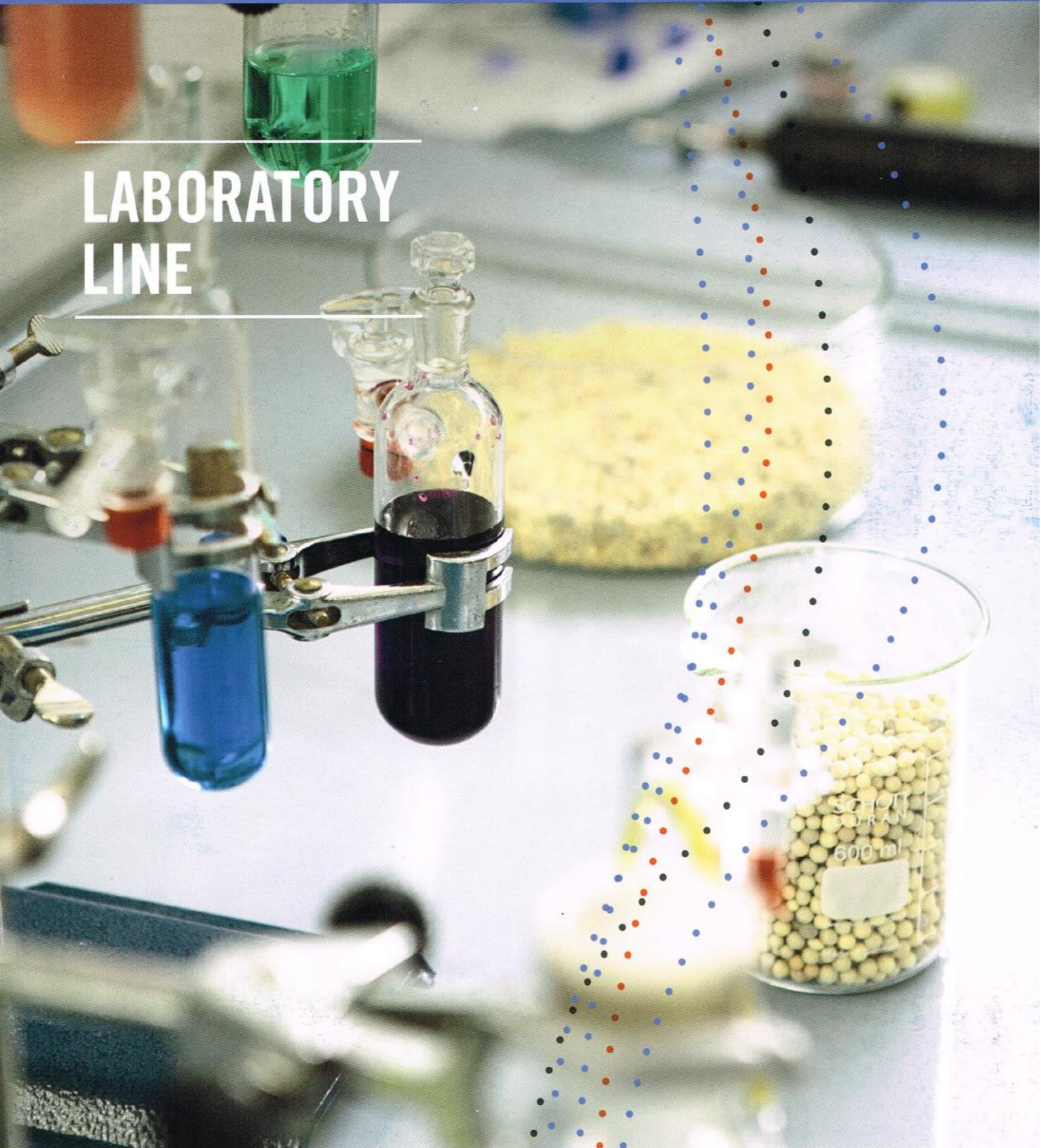


LABORATORY LINE



ON SITE GAS GENERATORS

I.TEC-STV
Engineering Solutions + Visions

RR
ErreDue s.p.a.



**DISTRIBUTOR OF PRODUCTS
AND SERVICES OF ERREDUE.**

RCS-TLS 790 650 915

**We develop technology to help
companies improving production
efficiency, safety and quality of work.**

ErreDue designs, builds and sells gas generators, mixers and gas purifiers, with flow rates from a few liters/hour up to hundreds of cubic meters/hour.

Every ErreDue laboratory generator is designed with the idea of providing solutions to make laboratories self-sufficient in producing their own technical gases through safe technologies; our target is to eliminate the use of gas cylinders avoiding the risks coming from potentially dangerous materials storage, ensuring continuity of work and laboratory operators' safety.

In ErreDue we seriously take care of quality: every product is certified and tested in order to ensure the maximum reliability in time, furthermore our technical service is always available for intervention in case of need.



LABORATORY GAS GENERATORS

Why using a Gas generator in laboratory?

Increased safety

No risks for pressurized cylinders handling, no storage of cylinders inside or close to the lab.

Savings

No costs for cylinders transportation or rental, independence from gas cost.

Continuity of work

No downtime for cylinders replacement, no risk of gas shortage.

No waste, no thoughts

ErreDue gas generators produce only the gas requested from the equipment, avoiding waste and avoiding to check the quantity of residual gas in the cylinder before starting the analysis.

Constant quality

The gas produced by ErreDue gas generators has a constant high purity over time.



MARS

HYDROGEN GENERATORS



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.

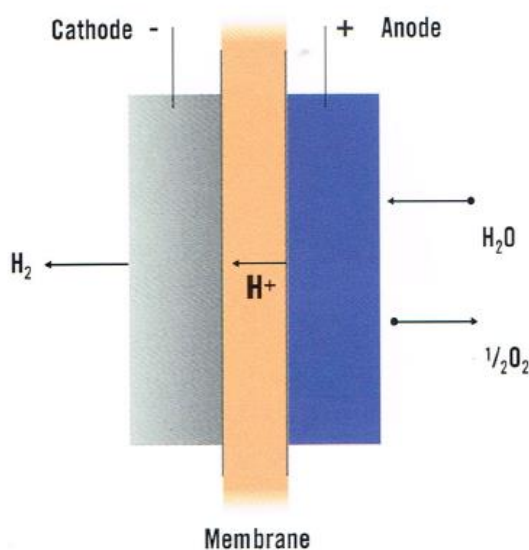
MARS Hydrogen generators are ideal for every laboratory application: as a gas carrier for GC-FID/GC-NPD/GC-TCD, as a reagent gas for GC-ELCD/GC-HALL or as a collision gas for ICP-MS. Moreover, the high purity of the hydrogen produced from MARS generators makes them ideal for use with fuel cells and their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

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 RS485 connections.

With flow rate from 150 to 1200mL/min, MARS hydrogen generators can satisfy every laboratory's gas need, furthermore ErreDue can design custom products to always ensure maximum flexibility.

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.

PEM electrolysis



GALILEO NITROGEN GENERATORS



GALILEO Nitrogen generators use the PSA (pressure swing adsorption) technology to produce a continuous pure Nitrogen flow, already at working pressure with no need for further equipment, thanks to the integrated air compressor.

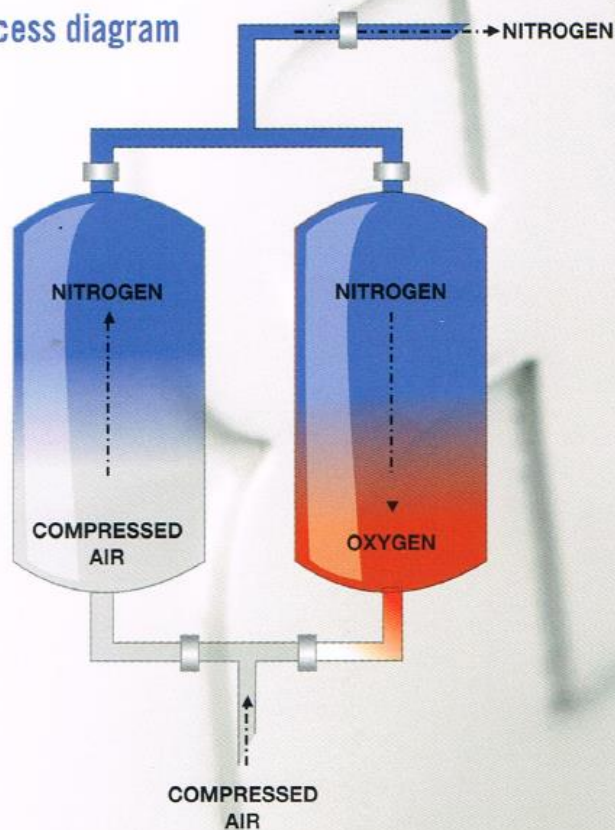
GALILEO Nitrogen generators just need power and ambient air to produce pure nitrogen without the use of chemicals.

GALILEO generators work in complete autonomy, producing only the requested amount of gas with no waste.

GALILEO is available in four models with different flow rates and different purity levels, to satisfy every laboratory's need. One of the unique advantages of GNLAB 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 by GALILEO 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.

PSA process diagram



ORION

AIR GENERATOR



«ORION Z-SERIES» zero air generator produces hydrocarbons (particularly methane) free air.

The functioning process of «ORION Z-SERIES» consists in introducing compressed air in a high-temperature reactor where it reacts with a catalysts specific for hydrocarbons burning; after this process, purified air is cooled in a serpentine and introduced in the analysis instrument at the right temperature.

«ORION P-SERIES» pure air generator produces hydrocarbons (particularly methane) free and dry air, with a very low dew point (-50°C).

The functioning process of «ORION Z-SERIES» consists in adding a drying process to a zero air generator, flowing purified air through a self-regenerating drying tower. *Pure*

GEMINI

OXYGEN GENERATOR



GEMINI Oxygen generators use the PSA technology to produce a continuous pure Oxygen flow, already at working pressure with no need for further equipment.

GEMINI Oxygen generators just need power and compressed air to produce pure Oxygen without the use of chemicals, GEMINI works in complete autonomy producing only the requested amount of gas.

GEMINI Oxygen generators just need power and ambient air to produce pure nitrogen without the use of chemicals.

We develop technology to help
companies improving production efficiency,
safety and quality of work.

ErreDue S.p.A.
Research and Development

All products are designed and produced in Italy by



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



**DISTRIBUTOR OF PRODUCTS
AND SERVICES OF ERREDUE.**

**RCS-TLS 790 650 915
Tel.: +33 604 144 507
contact@itec-sv.com**