HYDROGEN

HYDROGEN GENERATORS

Purity up to 99.99996% – tailored for your high-precision needs

DÜRR TECHNIK

Inspiring With Green Air

Why opt for hydrogen over helium?
Chromalytic hydrogen generators are the perfect alternative

Unlimited gas – saving costs

Hydrogen can work equally as well as helium in modern GC and GC-MS systems. It is possible to adapt and recalibrate the systems to use hydrogen as a carrier gas. By using a hydrogen generator, laboratories gain the power to produce their own hydrogen on-demand, simply at the touch of a button. This eliminates dependence on external suppliers, mitigating the impact of helium shortages and rising costs, while ensuring reliable and reproducible results for their chromatographic analyses.

Best quality from a single source

The introduction of our new hydrogen generators perfectly complements our existing range of nitrogen and zero air generators. This expansion allows Chromalytic to be your single source for all three essential gas types, streamlining your laboratory workflow.
Understanding that applications like GC often require all three gases for the same instrument, a single Chromalytic hydrogen generator can seamlessly supply multiple instruments. Additionally, these generators come in various flow rates and drying methods, directly impacting dew point and hydrogen purity to meet your specific needs.

Your advantages

- Long-lasting electrolytic cell for outstanding reliability 24/7
- Hydrogen on-demand with consistent purity
- No desiccant cartridges, which reduces downtimes and costs
- Maintenance-free and reliable H2 generation for critical applications
- Compact, space-saving design
- Simple user interface by touchscreen
- State-of-the-art control and safety alarms system
- Optimized for GC columns (D models)
- Easy plug-and-play installation

Technical data

Type	Max. volume flow (ml/min)	Purity higher than (%)	Typical dew point (°C)	Noise level at PN dB(A)	Power (kW)	Maximum pressure (bar)	Voltage (V)	Frequency (Hz)	Protection class (IP)	Weight (kg)	Dimensions L x W x H (mm)
H2-100	100	> 99.9996	-23	46	0.075	11	115/230	50/60	IP 2X	13,0	230 x 370 x 507
H2-300	300	> 99.9996	-23	46	0.180	11	115/230	50/60	IP 2X	14,0	230 x 370 x 507
H2-500	500	> 99.9996	-23	46	0.190	11	115/230	50/60	IP 2X	15,0	230 x 370 x 507
H2-100D	100	> 99.99996	-73	46	0.100	11	115/230	50/60	IP 2X	14,0	230 x 370 x 507
H2-300D	300	> 99.99996	-73	46	0.200	11	115/230	50/60	IP 2X	15,0	230 x 370 x 507
H2-500D	500	> 99.99996	-73	46	0.220	11	115/230	50/60	IP 2X	16,0	230 x 370 x 507
H2-1000D	1000	> 99.99996	-73	46	0.400	11	115/230	50/60	IP 2X	17,0	230 x 370 x 507

Optimally suited for

- Gas Chromatography (GC/GC-MS)
- Coupled Plasma Mass Spectrometry (ICP-MS)
- Elemental Analyzers

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Edition 03/2026