

① **Hydrogen generators**

- New hydrogen generator for generation of ultrapure hydrogen (99.99999%)
- Ideal for laboratory use
- Eliminates risks involved in the use of conventional gas cylinders
- Based on the new, patented electrolysis cell with patented arrangement of electrodes (best possible insulation between the electrodes)
- Maintenance-free cell
- Low energy consumption – smaller loss of electrical energy
- More efficient electrolysis – higher efficiency
- Less electrode wear

Applications: FID / GC-MS / ICP-MS

Model	Flow rate	Order No.
H2 AD - 180	180 ml/min hydrogen (purity > 99.9999% at a pressure of 10.7 bar)	10 83 24934
H2 AD - 500	500 ml/min hydrogen (purity > 99.9999% at a pressure of 10.7 bar)	10 83 24935
H2 AD - 800	800 ml/min hydrogen (purity > 99.9999% at a pressure of 10.7 bar)	10 83 20568



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② **Nitrogen generators**

- Nitrogen generators ensure constant and reliable supply of ultrapure nitrogen to LC-MS systems
- Utilization of PSA technology
- ZEFIRO Zero – without compressor
- Low-noise < 50 dB
- Little maintenance required – NEW: double interval - now only every 8,000 h
- Extensive portfolio of models matching all commonly used LC-MS systems

Application: LC-MS / GC-ICP

Please enter the webcode WWQ7T014 to see the other models in our online catalogue.

Model	Flow rate	Order No.
Zefiro 35 LC-MS	35 l/min nitrogen (purity 99.0% at a pressure of 8 bar)	10 83 24937
Zefiro 5 HP	5 l/min nitrogen (purity 99.999% at a pressure of 5 bar)	10 83 24938
Zefiro z 40 LC-MS	40 l/min nitrogen (purity 98.5% at a pressure of 7 bar)	10 83 25031



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③ **Zero air generator**

- Zero air generators produce laboratory grade purified and hydrocarbon free air from an existing in house oil free compressed air supply. Zero Air Generators remove HC pollutants to less than 0.1 ppm, CO to less than 0.1 ppm and all kinds of particles.
- Increase of analysis accuracy
- Elimination of the need for inconvenient high-pressure gas cylinders, and the accompanying risks
- Ready to use – easy to install – minimum maintenance in yearly intervals
- Low-noise (< 50 dB)
- Payback period typically < 1 year

Application: GC-FID, GC-FPD, GC-NPD

Model	Flow rate	Order No.
ZA - 3000	3,000 ml/min (contamination HC < 0.1 ppm, CO < 0.1 ppm, particle-free)	10 83 24936
ZA - 6000	6,000 ml/min (contamination HC < 0.1 ppm, CO < 0.1 ppm, particle-free)	10 83 29291

Compressor

Type	Flow rate	Order No.
CZA	15 l/min dried air, max. pressure 7 bar	10 83 28269



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