

NITROGEN 5.0 GAS GENERATOR

FULLFILLING HIGHEST REQUIREMENTS ON GAS QUALITY



The N₂-Generator of G.A.S. was particularly developed for the autonomous, mobile and by that flexible use of analytical devices where zero air is no option e.g. testing of flammable gases. Using the N₂-Generator makes cylinders of operating gas redundant allowing analyzers to be operated continuously with nitrogen of highest grade (5.0) supplied from enriched ambient air.

A very compact design and by that user friendliness could be achieved. Standard Swagelok connectors enable a convenient 'plug-and-play' coupling of the machine to any device.

The applied pressure-swing technology enables auto-regeneration of the O₂-retarding filters while the molecular sieves assure that ambient air of even elevated humidity can be handled. Thus exchange of filters (depending on concentrations of impurities, chemical compounds and humidity) are typically in the range of beyond 6 month.

ADVANTAGES:

- Enhanced flexibility for the use of analytical devices (remote areas or where gas cylinders are not accepted)
- Autarkic gas supply
- Rugged set-up
- Built-in compressor (output pressure >3 bar rel.)
- Compact design
- Regenerative PSA technology
- No cylinder management needed
- Low costs (no additional gas consumption)
- No restriction regarding flammable gases
- Self-check feature (output pressure)
- Operation with all G.A.S. measurement systems (positive ionization mode)

TECHNICAL SPECIFICATION

Technology: Pressure-Swing-Adsorption (PSA)

N₂-Quality: 99.999 % (5.0 purity)
O₂: <10 ppm^{*1}

Pneumatics: Flow max. 500 mL/min^{*2}
Pressure: >3 bar (rel.)

Fittings: 3 and 6 mm stainless steel

Housing: Stackable, IP20, CE marking

Voltage: 110-130V AC, 50-60 Hz
220-250V AC, 50-60 Hz
(to be specified by customer)

Dimensions: 27 x 48 x 69 cm (WxDxH)

Weight: < 60 kg

Temperature: 5 - 40 °C

Humidity (RH): ≤ 80 %^{*3}

^{*1} other compounds are neglected

^{*2} gas consumption must be restricted by consuming device

^{*3} non-condensing