

# Gas Generators

## Hydrogen Generators, Precision



Produce a continuous supply of ultra high purity gas to replace cylinder gas in gas chromatography and many other laboratory applications.

- ◆ Output suitable for both carrier and flame gas, when operating gas chromatographs at standard detection limits (>1000ppm or 1%), except GG150-18 which is suitable for Trace Analysis
- ◆ Safe, reliable Hydrogen generation using proven, membrane technology
- ◆ Automatic water feeding gives a virtually endless supply of gas
- ◆ Replaceable deioniser cartridge and silica gel charge maintains consistent purity and provides easy maintenance
- ◆ "On demand" generation ensures minimal Hydrogen stored in the system
- ◆ Built-in, gas leak detection system with automatic shutdown function

### Technical data:

- ◆ H<sub>2</sub> purity >99.9995% at maximum flow and pressure (GG150-88: >99.9999%)
- ◆ Choice of maximum flow rate according to model
- ◆ Adjustable output pressure from 0 to 100psi g (0 to 6.9 bar g)
- ◆ Water purity requirements: <1 S/cm conductivity and >1M -cm resistance
- ◆ Output connection: 3mm outside diameter
- ◆ Overall 380 x 540 x 406mm W x D x H
- ◆ Weight, excluding water, 29kg

### Hydrogen Generators

As specified. Supplied with inlet ferrule, power lead and instructions. For 110V, 230V 50Hz a.c. single phase supplies.

- GG150-14** Model Precision Hydrogen 100, 100ml per minute
- GG150-18** Model Precision Hydrogen 200, 200ml per minute
- GG150-48** Model Precision Hydrogen 300, 300ml per minute
- GG150-65** Model Precision Hydrogen 450, 450ml per minute
- GG150-88** Model Precision Hydrogen Trace 500, 500ml per minute\*

\* Trace Analysis (>99.9999% purity output) model

### Silica gel

- GG150-95** Silica gel, self indicating, pack of 500g. One complete recharge.
- GG150-97** Silica gel, self indicating, pack of 25kg

## Nitrogen Generators, Precision



Suitable deioniser for use with above generators – see DB120-10.

Produce >99.9995% purity N<sub>2</sub> to replace cylinder gas used for gas chromatography and many other laboratory applications.

The generators utilise a nitrogen enrichment technique with a highly efficient proprietary carbon molecular sieve that ensures the highest purity of the generated gas. The nitrogen separation process relies on differential diffusion and, with no physical absorption taking place, the carbon sieve easily self regenerates and does not require replacement. This means that the purity of the nitrogen remains consistent with no fall off in performance.

Note: These generators require a separate source of compressed air operating at minimum 35 litres/minute at 100-120psi g (or accessory Precision compressor) for operation.

- ◆ Replace the need to store and replenish gas held in pressurised cylinders
- ◆ Gas over-pressure safety system
- ◆ Only small volumes at low pressure are stored
- ◆ Continuous supply of gas

### Technical data:

- ◆ Nitrogen purity >99.9995%
- ◆ Output pressure 5.5 bar g (80 psi g)
- ◆ Output connection 3mm o.d.
- ◆ Overall 380 x 540 x 256mm W x D x H
- ◆ Weight 48kg

### Nitrogen Generators

As specified. Supplied with power lead and instructions. For 110V/230V 50/60Hz a.c. single phase supplies. Require, but do not include, separate air compressor for operation.

- GG170-08** Model Precision Nitrogen, 250ml per minute
- GG170-17** Model Precision Nitrogen, 600ml per minute
- GG170-19** Model Precision Nitrogen, 1000ml per minute

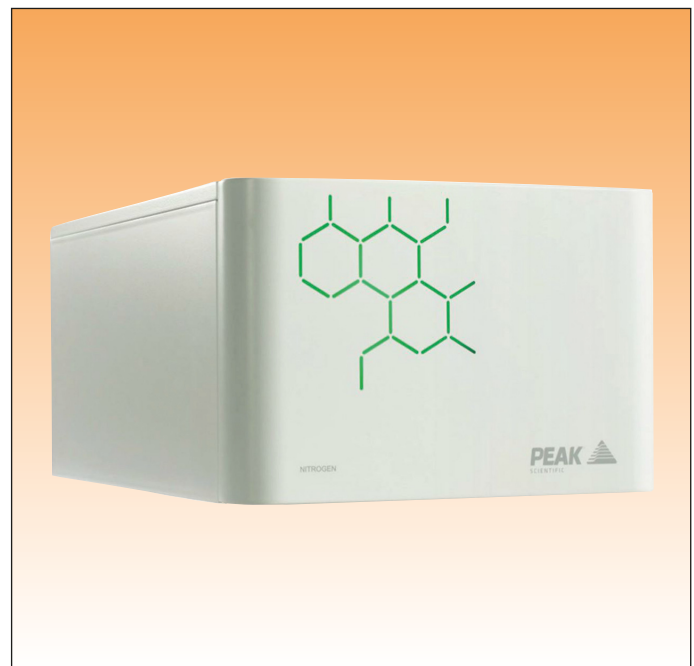
### Accessory Air Compressor

Suitable for use with GG170-series Nitrogen generators. Overall: 380 x 540 x 406mm W x D x H. Weight: 35kg. For 230V 50Hz a.c. single phase supplies.

- GG170-95** Precision Air Compressor



GG150



GG170



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