

# Precision Nitrogen

## Nitrogen Generator for GC

Part Number : See Reverse

Service Kit : 08-3612



Your local **gas generation** partner

### Description

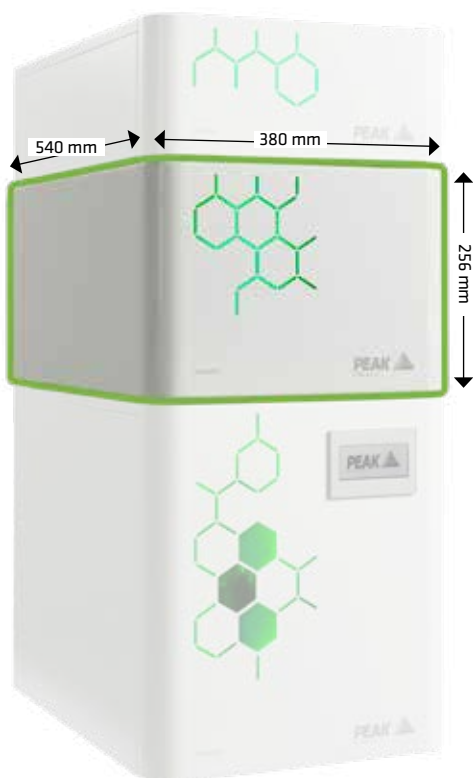
Precision Nitrogen has been developed to provide a constant and consistent source of Nitrogen for detector make-up gas at standard/typical detection levels for GC applications, as well as headspace vial pressurization, purge and trap, tube conditioning for thermal desorption and sample blow down. These generators are capable of delivering high purity nitrogen, removing oxygen and moisture via Pressure Swing Adsorption and Carbon Molecular Sieve technology.

As with all Precision Series generators, Nitrogen models benefit from a compact and modular, stackable design, minimizing the total footprint required for GC gas supply, and providing flexibility to add or remove modules as your laboratory requirements evolve over time.



### Applications

- **Sample Prep**
  - Headspace
  - Purge and Trap
  - Tube Conditioning
- **Detector Gas**
  - Make-up / Reference



Precision Nitrogen shown in a typical Precision stack.

### Key Features

- Suitable as make-up gas at standard detection limits
- Nitrogen generated on demand, as and when it is required
- Constant and consistent supply, avoid running out of gas during analysis
- Avoid contaminants entering system as result of changing over empty cylinders
- Dedicated Precision compressor module available where house supply not available
- Integrates seamlessly with other Precision units
- Ultra-fast start-up time, quick to reach standard operating purity
- Minimum maintenance with an annual filter change
- Compact, space-saving modular design



| Technical Specifications     | Nitrogen, 250cc                                       | Nitrogen, 600cc  | Nitrogen, 1L     |
|------------------------------|---|------------------|------------------|
| Max Flow Rate                | 250cc/min   | 600cc/min        | 1,000cc/min      |
| Max Pressure                 | 80 psi / 5.5 bar                                      |                  |                  |
| Purity                       | > 99.9995%  |                  |                  |
| Gas Outlets                  | 1 x 1/4 " BSPP  |                  |                  |
| Min/Max Air Inlet Pressure   | 6.9-8.3 bar / 100-120 psi                             |                  |                  |
| Min Air Inlet Flow           | 35 lpm  |                  |                  |
| Min Inlet Air Quality        | ISO8573 - 1:2010 Class 1.4.1                          |                  |                  |
| Phthalates                   | None  |                  |                  |
| Suspended Liquids            | None  |                  |                  |
| Start-Up Time For Purity     | 1.5 hours   |                  |                  |
| Operating Temperature        | 5°C - 35°C / 41°F - 95 °F                             |                  |                  |
| Electrical Requirements      | 110 VAC ± 10% 60 Hz 0.37A / 230 VAC ± 10% 50 Hz 0.17A |                  |                  |
| Power Consumption            | 39.1 - 40.7 Watts                                     |                  |                  |
| Heat Output                  | Up to 140 BTU/Hr                                      |                  |                  |
| Generator Dimensions (WxDxH) | 38.0 x 54 x 25.6 cm / 14.9 x 21.2 x 10"               |                  |                  |
| Generator Weight             | 21 Kg (46.2 lbs)                                      | 21 Kg (46.2 lbs) | 26 Kg (57.3 lbs) |

| Ordering Information      |         |         |         |
|---------------------------|---------|---------|---------|
| Part Number               | 61-0250 | 61-0600 | 61-1000 |
| Annual Service            |         |         |         |
| Standard Maintenance Plan |         |         |         |
| Complete Maintenance Plan |         |         |         |

| Precision Air Compressor | 110v    | 230v    | Annual Service Kit |
|--------------------------|---------|---------|--------------------|
| Part Number              | 65-1555 | 65-0555 | 08-8372            |

## [PEAK Protected]<sup>™</sup>

Peak Scientific gas generators define the benchmark in reliability, convenience and performance in laboratories around the world, and come backed by a 12 month warranty. Beyond this period however you can ensure that your investment continues to be **[Protected]** by our comprehensive generator care cover.

Our world-class aftercare support packages deliver a program of scheduled preventative maintenance whilst giving you the reassurance of instant access to worldwide technical support and priority on-site response in the untimely event of a breakdown.

Peak Scientific's Quality Management System conforms to: ISO:9001:2008



### Product Certifications





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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.