

Precision Hydrogen

Hydrogen Generator for GC

Part Number : See Reverse

Service Kit : See Reverse



Your local **gas generation** partner

Description

The Precision Hydrogen generators are designed to provide the gas needed for detectors requiring Hydrogen fuel gas, such as FID. One generator is capable of supplying multiple detectors, and are available in various flow rates to ideally suit individual customers' needs.

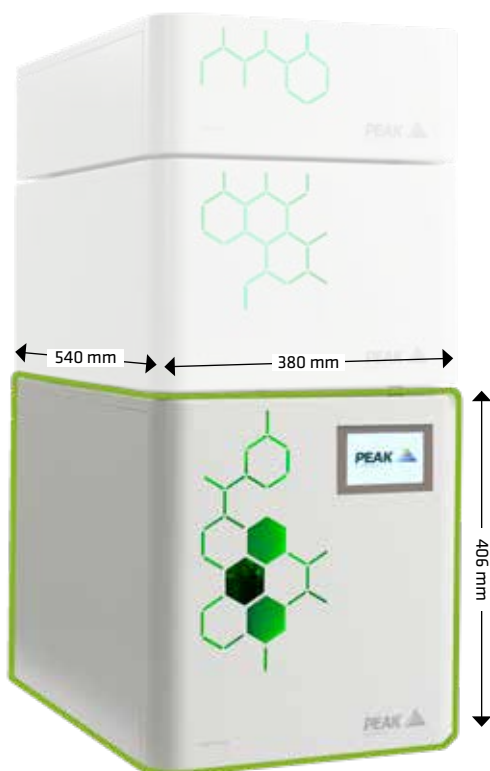
These generators utilise a Proton Exchange Membrane to create the Hydrogen gas from deionized water, and a desiccant filtration stage is used to dry the gas.

Precision Hydrogen gas generators come with various safety features as standard, giving you complete peace of mind in the laboratory and a far safer, dependable and more convenient alternative to cylinder gas.



Applications

- ▶ **Detector Gas**
- Fuel Gas



Key Features

- ▶ Suitable for fuel gas at standard detection limits
- ▶ 99.9995% Purity
- ▶ Internal leak detection with automatic shutdown features
- ▶ Automatic loading pump as standard
- ▶ Simple maintenance, limited to replacing de-ionizer cartridge and silica gel
- ▶ Short and easy start-up and shutdown procedures
- ▶ Compact, space-saving modular design
- ▶ Creates hydrogen on demand, minimal storage of hydrogen in the system
- ▶ Peak offers a 3 year cell warranty with this generator as standard.

Precision Hydrogen shown in a typical Precision stack.



| Technical Specifications | Hydrogen, 100cc | Hydrogen, 200cc | Hydrogen, 300cc | Hydrogen, 450cc |
|------------------------------|---|-----------------|-----------------|-----------------|
| Max Flow Rate* | 100cc/min | 200cc/min | 300cc/min | 450cc/min |
| Max Pressure | 100 psi / 6.9 bar | | | |
| Purity | 99.9995% | | | |
| Gas Outlets | 1 x 1/8" Swagelok compression fitting | | | |
| Water Purity Requirement | <1.0µ Siemens/cm OR >1 Mohm-cm | | | |
| Water Consumption | up to 0.12L/ day | up to 0.24L/day | up to 0.36L/day | up to 0.53L/day |
| Operating Temperature | 10°C - 35°C / 50°F - 95°F | | | |
| Electrical Requirements | 100-230V 50/60HZ 6A(100-450cc) 2.3-4.8A(1200cc) | | | |
| Power Consumption | 309-422 Watts | 367-422 Watts | 405-422 Watts | 422 Watts |
| Heat Output | up to 1000 BTU/hr | | | |
| Generator Dimensions (WxDxH) | 38.0x 54.0 x 40.6cm / 14.9 x 21.2 x 15.9" | | | |
| Generator Weight | 31 Kg (68.3 lbs) | | | |
| Noise Level | Silent in operation | | | |

* All flow rates are stated in sccm at 273.15K and 1.01bar

| Ordering Information | | | | |
|---------------------------|---------------------------------|---------|---------|---------|
| Part Number | 63-0100 | 63-0200 | 63-0300 | 63-0450 |
| Annual Service | www.peakscientific.com/ordering | | | |
| Standard Maintenance Plan | | | | |
| Complete Maintenance Plan | | | | |

| Accessories | Water Bottle 4L | Water Bottle 8L |
|-------------|-----------------|-----------------|
|-------------|-----------------|-----------------|

[PEAK Protected]TM

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.

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



Product Certifications

