

Precision Hydrogen Trace

Hydrogen Generator for GC

Part Number : See Reverse

Service Kit : See Reverse

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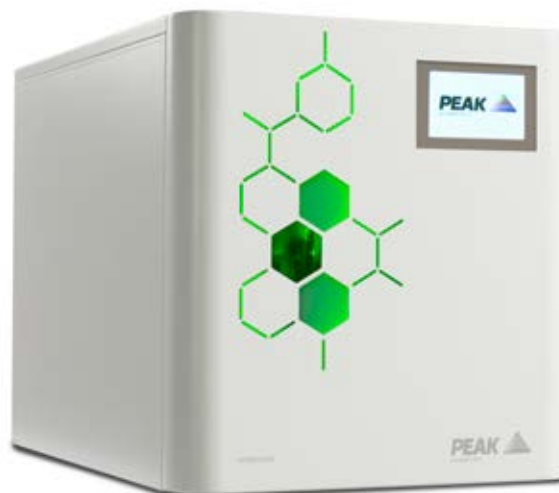
Your local gas generation partner

Description

The Precision Hydrogen generators are designed to provide the hydrogen gas required for carrier gas and detectors requiring Hydrogen fuel gas, such as FID and FPD. One generator is capable of supplying multiple GCs, and can be suited to individual customers' needs, depending on the flow requirement.

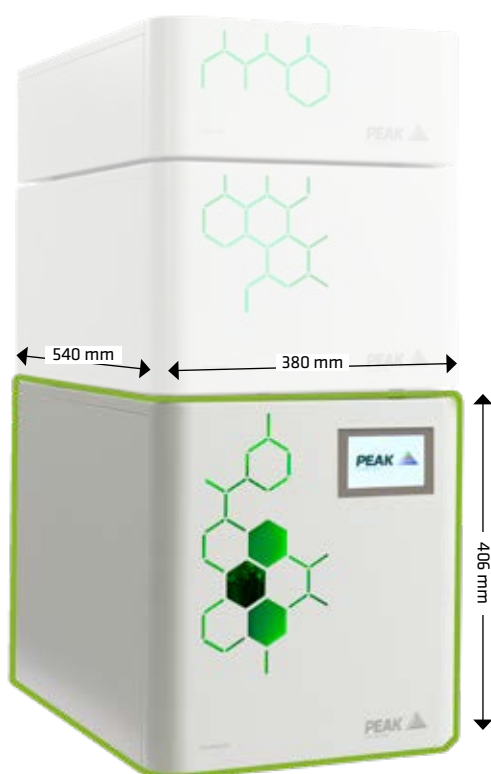
These generators utilize a Proton Exchange Membrane (PEM) to generate Hydrogen gas from deionized water, with a pressure swing adsorption (PSA) dryer used to remove residual moisture from the gas.

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

- **Carrier Gas**
 - GC-MS
 - GC
- **Detector Gas**
 - Fuel Gas



Precision Hydrogen Trace shown in a typical Precision stack.

Key Features

- Suitable for flame gas and carrier gas at trace detection limits
- 99.99999% Purity
- Internal leak detection with automatic shutdown features
- Proven PEM technology to generate hydrogen safely and reliably
- Regenerative PSA dryers to ensure highest level of purity
- Automatic loading pump as standard
- Maintenance limited to replacing de-ionizer cartridge
- Compact, space-saving modular design
- Creates hydrogen on demand, minimal storage of hydrogen in the system
- Combine multiple units for higher flow requirements
- GC in-oven hydrogen leak detector available as an optional extra
- Peak offers a 3 year cell warranty with this generator as standard.

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| Technical Specifications | Hydrogen Trace, 250cc | Hydrogen Trace, 500cc | Hydrogen Trace , 1200cc |
|------------------------------|---|-----------------------|---------------------------------|
| Max Flow Rate* | 250 cc/min | 500 cc/min | 1200 cc/min |
| Max Pressure | 100 psi / 6.9 bar | | |
| Purity | 99.99999%** | | |
| Dew Point | -75 °C / -103 °F | | |
| Gas Outlets | 1 x 1/8" Swagelok compression fitting | | |
| Water Purity Requirement | <1.0µ Siemens/cm OR >1 Mohm-cm | | |
| Water Consumption | 0.17 - 0.46 L/day | 0.4 - 1.2 L/day | up to 2.1 L/day |
| Operating Temperature | 10°C - 35°C / 50°F - 95°F | | |
| Electrical Requirements | 110 / 230 V 50 / 60 HZ max 6 A | | 110 / 230 V 50 / 60 HZ 10 A max |
| Power Consumption | 477 Watts | 787 Watts | 787 Watts |
| Heat Output | up to 1000 BTU/ hr | | |
| Generator Dimensions (WxDxH) | 380 x 540 x 406mm / 14.9 x 21.2 x 15.9" | | |
| Generator Weight | 29 Kg (64 lbs) | | 31.5 Kg (69.5 lbs) |
| Noise Level | Silent in operation | | |

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

** Based on O2 content independently verified by National Physical Laboratory, UK

| Ordering Information | | | |
|---------------------------|---------------------------------|---------|---------------------|
| Part Number | 64-0250 | 64-0500 | 3301768 (110v/230v) |
| Annual Service | www.peakscientific.com/ordering | | |
| Standard Maintenance Plan | | | |
| Complete Maintenance Plan | | | |

| Accessories | Water Bottle 4L | Water Bottle 8L | Hydrogen Leak Detector (GC in-oven) |
|-------------|-----------------|-----------------|-------------------------------------|
| Part Number | 10-9016 | 10-9017 | 10-9010 |

[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

