

Precision Hydrogen Trace

Agilent Approved Hydrogen Generator

Part Number : 74-0250 / 74-0500

Service Kit : See Reverse

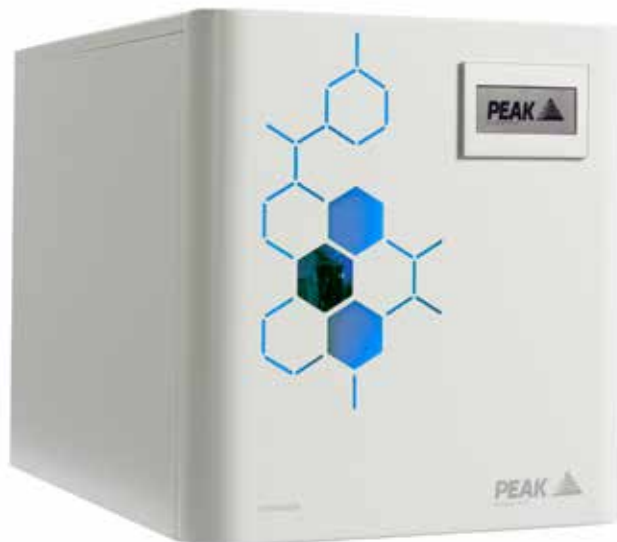


Your local gas generation partner

Description

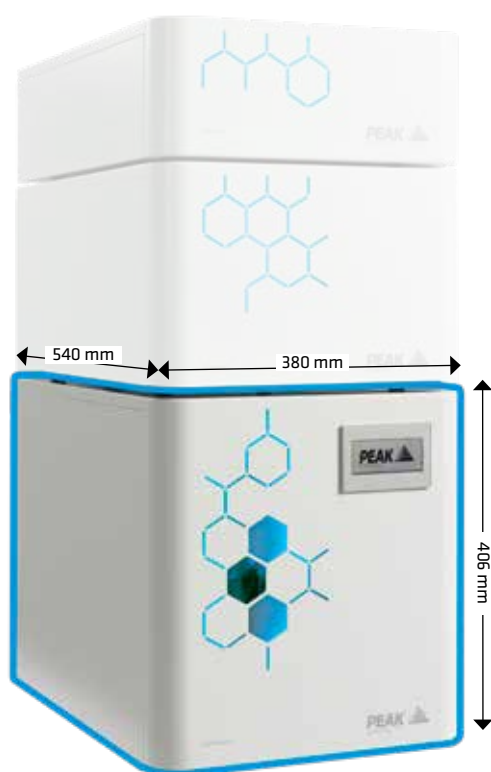
The Precision Hydrogen Trace generator is designed primarily for GC carrier gas use, and can also be used for detectors requiring Hydrogen fuel gas such as FID and FPD. This model is approved for use specifically with **Agilent Technologies** GC instruments, with a single generator capable of supplying multiple devices depending on model and flow requirements.

These generators offer a safe, reliable and convenient source of Hydrogen for GC, generating very high purity Hydrogen by utilising a Proton Exchange Membrane to create the gas from deionized water, prior to Pressure Swing Absorption and molecular sieve technology to remove moisture content down to trace levels. Precision Hydrogen Trace generators come with highly robust safety features as standard, providing 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 featuring additional Nitrogen and Zero Air modules

- Suitable for flame gas and carrier gas at trace detection limit.
- 99.99999% purity
- Approved for use with  **Agilent Technologies** GC instruments
- Internal leak detection with auto-shutdown safety features
- Proven PEM technology to generate hydrogen reliably
- Certified to latest revision CSA standards for peace of mind and compliance
- Regenerative PSA dryers to ensure high level of hydrogen purity
- Minimal maintenance required (deionizer cartridge replacement)
- Water bottle included, protecting against contamination
- Combine multiple units for higher flow requirements
- GC in-oven hydrogen leak detector available as an optional extra
- Automatic loading pump as standard
- Creates hydrogen on demand, minimal storage of hydrogen in the system
- Compact space-saving modular design
- 3 year cell warranty as standard

Technical Specifications	Hydrogen Trace, 250cc	Hydrogen Trace, 500cc
Max Flow Rate*	250 cc/min	500 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
Operating Temperature	10°C - 35°C / 50°F - 95°F	
Electrical Requirements	110-230V 50/60HZ 6A	
Power Consumption	477 Watts	787 Watts
Heat Output	up to 4706 BTU/hr	
Generator Dimensions (WxDxH)	406 x 380 x 540 mm / 16 x 15 x 21.3"	
Generator Weight	31 Kg (68.3 lbs)	
Noise Level	Silent in operation	
Water bottle	4 liter Precision Water Bottle included	

* 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	74-0250	74-0500
Annual Service	www.peakscientific.com/ordering	
Standard Maintenance Plan		
Complete Maintenance Plan		

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

NB: 8L Water Bottle is optional accessory, 4L Water Bottle is supplied with the generator.

[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.

Peak Scientific UK
Tel: +44 (0)141 812 8100
Fax: +44 (0)141 812 8200

Peak Scientific North America
Tel: +1 866 647 1649
Fax: +1 978 608 9503

For a full list of our worldwide office locations, please visit:

Web: www.peakscientific.com
Email: marketing@peakscientific.com

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

