

# Precision Hydrogen 100

GC detectors such as FID as well as collision gas for ICP-MS.

Part number: 63-0100

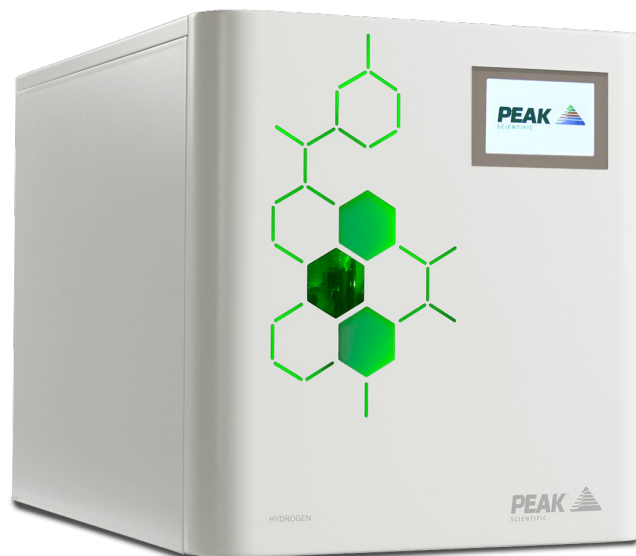


## Description

The Precision Hydrogen Standard generators are designed to provide the gas needed for GC detectors requiring hydrogen fuel gas, such as FID whilst the Precision Hydrogen Trace generators are capable of supplying GC carrier gas as well as detector gases for multiple GCs. One generator is capable of supplying multiple detectors, and there are various flow rates available to suit individual laboratory needs.

These generators utilize a Proton Exchange Membrane (PEM) to create the hydrogen gas from deionized water and a desiccant filtration stage is used to dry the gas. The Precision Hydrogen generators are also suitable for providing collision gas for ICP-MS.

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



## Application Types

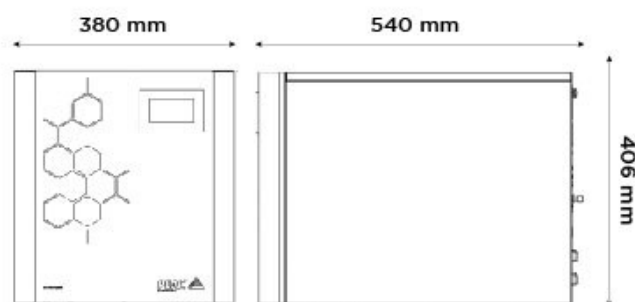
GC Detector Gas, ICP-MS Reaction Gas

## Generator Details

- **Gas types:** Hydrogen
- **Integrated compressor:** No

## Key Features

- 99.9995% purity
- Suitable for GC detector gas
- Creates hydrogen on demand, minimal storage of hydrogen in the system
- Low maintenance and minimal running costs over product lifetime
- Internal leak detection with automatic shutdown
- Automatic loading pump as standard
- Simple maintenance, limited to replacing de-ionizer cartridge and silica gel



## Technical Specifications

	Precision Hydrogen 100 H2 Generator
Gas Type	Hydrogen
Max Gas Flow:	100 *cc/min
Max Output Pressure:	100psi/6.9bar
Hydrocarbon Content:	Hydrocarbon free
Max Output Pressure:	100psi/6.9bar
Max Purity:	99.9995%
Gas Outlets Fitting:	1 x 1/8" Swagelok compression fitting
Water Purity Requirements:	ASTM Type II (<1.0 uS / > 1MΩ)
Water Consumption:	Up to 0.12 L/Day
Start Up Time:	180 m
Power Consumption:	309-422 Watts
Voltage:	100-230 V
Frequency:	50/60 Hz
Current:	6 Amps
Heat output:	1000
Max Operating Temp:	35°C / 95°F
Accreditations:	CSA, CE, FCC
Size (HxWxD) mm	406 x 380 x 540 mm
Size (HxWxD) Inches	16 x 15 x 21.3 inches
Generator Weight	31kg / 68.2lbs

\* Flow rates are stated in sccm at 273.15K and 1.01bar

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