

Precision Hydrogen 450

FID and FPD collision gas for ICP-MS

Part number: 63-0450

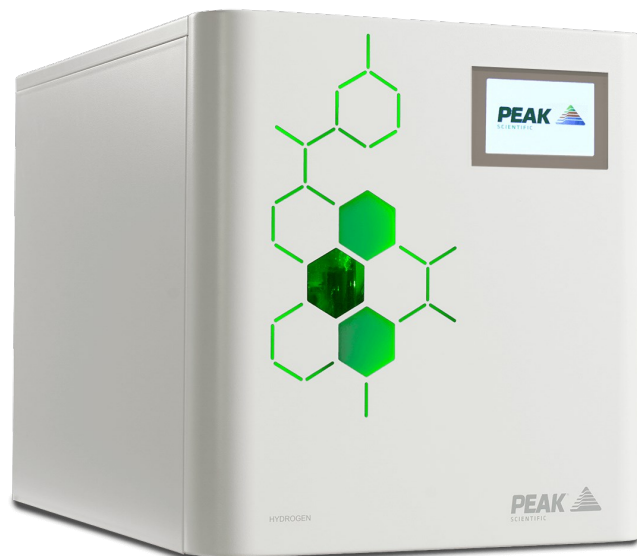


Description

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 suit individual customer 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. These generators utilize a Proton Exchange Membrane 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

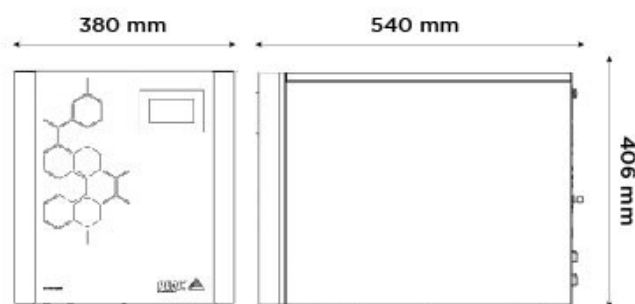
GC Detector Gas, ICP-MS Reaction Gas

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 gels minimum maintenance requirements and 24/7 performance



Technical Specifications

Precision Hydrogen 450 Hydrogen gas generator

Gas Type	Hydrogen
Max Gas Flow:	450 *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 0.53 L/Day
Start Up Time:	180 mins
Power Consumption:	422 W
Voltage:	100-230 V
Frequency:	50/60 Hz
Current:	6 A
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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