

Hydrogen Generator

Safe Hydrogen Gas for all your Gas Chromatographs

The Sion hydrogen generator

Continuously supplies 99.9995% pure Hydrogen gas at flow rates up to 500 ml/min. Eliminating the need for dangerous and expensive Hydrogen cylinders in the laboratory.

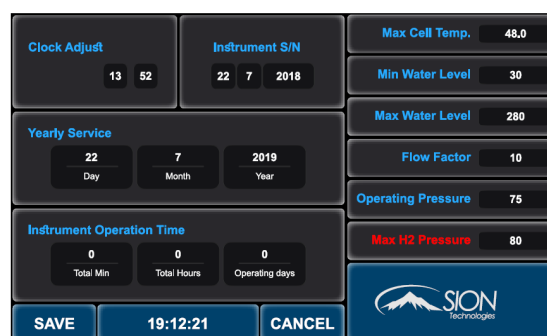
The generator can simultaneously supply carrier gas for multiple gas chromatographs in the laboratory and supplies Hydrogen fuel gas at different flow rates to FPD, NPD and FID detectors. It can also be used for any other laboratory use.

Hydrogen gas is produced on demand and made from distilled water using a unique proton exchange membrane.



Smart touchscreen for easy operation

- All instrument data in real time
- Full control of all parameters



Full protection with Sion's unique safety features

For your peace of mind, the Sion Hydrogen generator is offering you full protection and the best possible uptime. The instrument is protected against temperature rises in the generator as well as high or low system pressure. It is also protected against shortage or excess water in the water tank and excess Hydrogen flow.

In addition, the generator has a sophisticated leak detection system that is turned on from the moment the instrument is started and that remains active during operation. Upon detection of a leak an automatic shutdown of the generator is triggered, and an external alarm contact is activated. In case of an immediate urgency, you can use the emergency stop button on the screen.

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Key Features:

To ensure delivery of dry Hydrogen, the Sion Hydrogen Generator utilizes three drying steps: a water trap, pressure swing absorption and molecular sieve technology so that moisture is removed down to trace levels.

There is no need for dangerous acids or bases as the instrument only requires distilled water to produce the hydrogen gas.

Maintenance is easy, low cost and fast. We will also automatically provide a reminder for yearly maintenance (EMS) ensuring a minimum of downtime.



| Technical data: | Sion H-300 Hydrogen Generator | Sion H-500 Hydrogen Generator |
|---|----------------------------------|----------------------------------|
| Purity | 99.9995 % | 99.9995 % |
| Hydrogen Outlet Connection | 1/8" | 1/8" |
| Water Purity Required | < 1.0 micro Siemens | < 1.0 micro Siemens |
| Maximum Hydrogen flow rate | 300 ml/min | 500 ml/min |
| Maximum Hydrogen Pressure at outlet | up to 5bar/75psi | up to 5bar/75psi |
| Water consumption in full operation | 400 ml /day | 600 ml /day |
| Electrical Requirements | 100/110v – 220/240v | 100/110v – 220/240v |
| Maximum Power Consumption | up to 500 watts | up to 500 watts |
| Dimension of the instrument (W x H x D) | 45 x 51 x 61cm | 45 x 51 x 61cm |
| Internal water tank capacity | 3 liters | 3 liters |

Sion was Founded in 2015 by leaders in the field of analytical device manufacturing, Sion develops advanced laboratory analytical instruments and associated support systems. The Company's goal is to integrate knowledge, experience and ergonomics, in the development of analytical products, with the objective of making the impossible possible.

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Unique laboratory solutions, easy to use, efficient and cost-effective.