



# H-GENIE™

## HYDROGEN GAS GENERATOR

The H-Genie™ is a compact high pressure hydrogen gas generator designed to be the safest and most powerful gas generator in the world specifically for chemists. As the only generator capable of generating up to 1,450 psi of hydrogen gas from water at up to 1 NL/min, the H-Genie is designed to be the true smart gas cylinder replacement for any chemistry laboratory. The H-Genie will then monitor hydrogen consumption and notify you when the reaction has stopped. The new H-Genie: Generating chemistry safely!

The system is designed to be simple to use with any reactor system. The H-Genie will fill the vessel until the pressure or required volume is reached and automatically maintains the pressure of hydrogen in the vessel as it is continuously consumed by the reaction.

WATER GOES IN

OXYGEN REMOVED

HYDROGEN IS LEFT

### LEADING SAFETY STANDARDS

- Hydrogen is generated on demand from water electrolysis. No hydrogen cylinders necessary only 3 L of deionized water.
- The H-Genie does not store hydrogen but generates it “on-demand”. If there is an earthquake there is no hydrogen internally to cause a risk and a power cut would stop production of hydrogen automatically
- No Hydrogen cylinders means the H-Genie can be used in any fume hood freeing up space.
- The system has hydrogen detectors to automatically detect if there is a gas leak, pressure drop, or the concentration of hydrogen gas has risen above a safe level.

Pressure Range (bar)	1 - 100
Purity (%)	4.0/99.99
Gas Flow Range (NL/min)	0.1 - 1.0
Hydrogen Production Rate (NL/min)	110V
Water Consumption Rate (mL/hr)	200
Water Reservoir Capacity (L)	3
Water Requirement	Deionized water
Recommended Environment	Ventilated Fume Hood
P/N	065000000

Heidolph North America

(224) 265-9600 | sales@heidolph.com | heidolphna.com

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