



# H-GENIE

# The H-Genie™ High Pressure H<sub>2</sub> Generator

## NO CYLINDERS – NO PROBLEM

# NEW



- PRESSURE RANGE: 1–100 BAR
- PURITY: 4.0/99.99%
- GAS FLOW RANGE: 0.1–1 NL\*/min
- FOOTPRINT(H×W×D): 34.5 × 36.5 × 46 cm

## TAKE THE PAIN OUT OF HYDROGENATION

The H-Genie™ is a compact hydrogen generator that utilises patented pressure cell technology to produce 4.0 purity H<sub>2</sub> from water at pressures up to 100 bar (14.5–1450 psi) at flow rates up to 1 NL/min. The system is designed to be used in any laboratory as a safer and simpler replacement for hydrogen cylinders and to expand your chemistry capabilities.

- USE ONLY DEIONIZED WATER AND NO COMPRESSORS
- PRESSURE CAPABLE TO EXPAND YOUR CHEMISTRY ABILITY
- RUN MULTIPLE REACTORS OFF ONE H-GENIE
- INTERNAL H<sub>2</sub> DETECTOR FOR AUTOMATED SHUTDOWN
- COMPACT FOOTPRINT TO SAVE SPACE
- ACCURATE FLOW RATE, PRESSURE, AND VOLUME CONTROL
- VARIABLE FLOW RATE FOR SMALL AND LARGE SCALE
- AUTO-DRYING SYSTEM: NO DESICCANT CARTRIDGES
- SIMPLE TO USE AND SET UP: CLICK & GO
- SUITABLE FOR ANY LABORATORY & REACTOR

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for more details.



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## TECHNICAL PARAMETERS

<b>Hydrogen Production Rate</b>	0.1–1 NL/min
<b>Output Pressure Range</b>	1–100 bar
<b>Gas purity</b>	≥ 99.99% (4.0 @100 bar)
<b>Water purity</b>	Deionized water with recommended purity of < 1 μS/cm
<b>Water consumption rate</b>	< 200 cm <sup>3</sup> /hr
<b>Water reservoir capacity</b>	Internal: 3L
<b>Recommended environment</b>	Ventilated laboratory fume hood
<b>Power requirements</b>	Mains: 100V to 240V AC, 47–63Hz
<b>Power consumption:</b>	max. 1500 VA
<b>Unit dimensions (H × W × D)</b>	345 mm × 365 mm × 460 mm
<b>Unit weight</b>	38 kg
<b>Outlet parameter</b>	Tubing OD: 1/8" The output valve can accept any connector with a male thread Press 1/8".
<b>Operating and storage/transport environment</b>	10–35°C; < 80% RH

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