



H-GENIE

The H-Genie™ High Pressure H₂ Generator

NO CYLINDERS – NO PROBLEM

NEW FOR 2018



- PRESSURE RANGE: 1–100 BAR
- PURITY: 4.0/99.99%
- GAS FLOW RANGE: 0.02–1 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 H₂ 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 H₂ 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

Contact
genie@thalesnano.com
for more details.



TECHNICAL PARAMETERS

Hydrogen Production Rate	0.02–1 NL/min
Output Pressure Range	1–100 bar
Purity	≥ 99.99% (4.0)
Water requirement	Deionized water with recommended conductivity between 1 to 10 mS/cm
Water consumption rate	< 200 cm ³ /hr
Water reservoir capacity	Internal: 3L
Recommended environment	Ventilated laboratory fume hood
Power requirements	Mains: 100V to 240V AC, 47–63Hz
Power consumption:	max. 1500 VA
Unit dimensions (H × W × D)	345 mm × 365 mm × 460 mm
Unit weight	38 kg
Outlet parameter	Tubing OD: 1/8" The output valve can accept any connector with a male thread Press 1/8".
Operating and storage/transport environment	5 °C–40 °C; <80%RH

ThalesNano Energy Inc.

Zahony u. 7., H-1031 Budapest, Hungary, Tel.: +36 1 880 8500, Fax: +36 1 880 8501, E-mail: sales@thalesnano.com