

HLab

HLab 600 | HLab 1000

HLab is based on a proton-exchange membrane (PEM) electrolyser, utilising a maintenance free palladium (Pd) filter purification system, and is available in 2 formats:

- **HLab 600**
Producing 600cc/min of high purity H₂ at up to 13.8 bar
- **HLab1000**
Producing 1000cc/min high purity H₂ at up to 11.7 bar

HLab has been designed to offer a continuous stream of high purity (99.9999%) gas on-demand. HLab is self pressurising to user selected values and incorporates a maintenance free gas purification system.

HLab is suitable for a range of applications including: gas chromatography carrier/fuel gas, pharmaceutical industry, laboratory use and fuel cells. HLab offers a convenient alternative to bottled hydrogen while also removing the requirement to store large amounts of flammable compressed gas onsite.

Key Features

- Simple to use
- Failsafe
- Quiet 24/7 operation
- Maintenance free gas purification system
- High purity gas
- Self pressurising up to 13.8 bar (200psi)
- Suitable for charging standard cylinders and hydride stores

The best alternative to high purity bottled hydrogen



Technical Specification	HLab 600	HLab 1000
Hydrogen Flow Rate	600cc/min (1.3scfh)	1000cc/min (2.1scfh)
Hydrogen Pressure	13.8 bar (200 psi, 1.4MPa)	11.7 bar (170 psi, 1.2MPa)
Hydrogen Purity	99.9999%	
Atmospheric Dew Point	-60°C	
Electrical Power Supply	230/110V AC 50/60Hz	
Power Rating	900W peak	1,000W peak
DI Water Requirement	Deionised (ASTM Type 2), Autofill pressure 10psi min.	
Dimensions (H x W x D)	410 x 318 x 662 mm	
Operating Conditions	Indoors well ventilated	
Ambient Temperature	5 – 35°C (41 – 95°F)	
User Interface	Push button with LCD screen	

All values are for reference only and are subject to change.



Product Range (left-right): HCore, HLab 600, HLab 1000, HBox 1000, HBox 3000, HFlame, HPac