

# Hydrogen Generators

ULTRA HIGH PURITY HYDROGEN GENERATORS FOR ANALYZER SUPPORT

## KEY BENEFITS

- Safe, economical, low maintenance alternative to high pressure hydrogen cylinders. Hydrogen generators offer equal-to or better hydrogen purity when compared to high pressure hydrogen cylinders, allowing for a more stable response and low noise baseline. H<sub>2</sub> generators are fueled by simple reagent grade water.
- These highly reliable hydrogen generators safely deliver ultra high purity hydrogen that can be used for either fuel gas for flame ionization detectors or carrier gas for gas chromatography.
- Airborne Labs International (ALI) offers several different models of hydrogen generators, ranging from 100 cc/min to 600 cc/min output at selectable pressures. These hydrogen generators are basically maintenance free, requiring minimal supply costs after the unit is in service (ex. ion exchange bag, drier cartridge).
- Internal diagnostic features notify users of any system leaks, out-of-spec water, low water level and system errors in order to quickly troubleshoot problems and prevent or minimize downtime.
- **Product Support:** All hydrogen generator units come with a 1 year manufacturer warranty. These units are supported by *world-wide*, regional service agents. Technical support, spare parts, repair and maintenance, and various types of training options are available including **webinar-based** training.



PARKER-BALSTON® HYDROGEN GENERATOR  
(DRIER CARTRIDGE BASED)



PROTON ON-SITE® HYDROGEN GENERATOR  
(PALLADIUM MEMBRANE BASED)

PRODUCT SPECIFICATIONS	Parker-Balston H2PEM-100	Proton On-Site G400	Proton On-Site G600
Pure Hydrogen Output Rate	100 cc/min	400 cc/min	600 cc/min
Electrolyte System	Proton Exchange Membrane (PEM) solid electrolyte, maintenance and caustic free		
Hydrogen Purification	Palladium Membrane, maintenance-free		
Delivery Pressure PSIG (BAR)	5 to 100 psig (0.3 to 6.89 bar)	0 to 30 psig (0 to 2.07 bar) Step Down Regulator Contolled	
Purity (Assay, %)	99.999%	99.9999%	99.9999%
Auto-Fill Water Replenishment	Optional (Factory or Field Kit)	Standard	Standard
Water Quality Required (Minimum)	Deionized, ASTM Type II Deionized Water required (<1 micro Siemen/cm, >1 megOhm-cm)		
Electrical Supply Required	110 to 220 VAC, single phase, 50 or 60 Hz		



ISO / IEC 17025:2005 Accredited Laboratory

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