

HOGEN®

Hydrogen Generation Systems for Meteorological Applications



In meteorological applications, hydrogen is used as a lift gas where helium is unavailable or prohibitively expensive. HOGEN® hydrogen generation systems are ideally suited to producing hydrogen at its point of use, using only electricity and water to provide hydrogen at 200 psig pressure without the need for mechanical compression.

HOGEN S Series Hydrogen Generator Features & Benefits

- Light weight and compact for easy shipment and installation
- Can be moved by hand without power equipment
- Air freight possible — no hazardous chemicals and small enough to fit through a small plane door
- Minimal annual maintenance
- No compressor to operate, leak or maintain
- Uses modern proton exchange membrane (PEM) technology — no liquid electrolyte necessary
- Optional internet and modem remote telemetry
- Higher pressure capability can yield greater hydrogen capacity from your existing hydrogen tank
- All stainless steel cabinetry for enhanced durability
- Fully-automated operation for highest operator productivity
- Highly-pure hydrogen for greatest buoyancy

HOGEN S SERIES HYDROGEN GENERATORS Technical Specifications

PURE HYDROGEN OUTPUT	10, 20 or 40 scf/hr 0.25, 0.5 or 1.0 Nm3/hr
ELECTROLYTE SYSTEM	Proton Exchange Membrane Solid electrolyte, caustic-free (no KOH)
MAX DELIVERY PRESSURE	200 psig (13.8 bar)
PURITY	> 99.999+%
HYDROGEN DEW POINT	down to -65°C
WATER USAGE	0.25, 0.5 or 1.0 L/hr
WATER QUALITY (MIN) REQUIRED	Deionized ASTM Type II
ELECTRICAL SUPPLY REQUIRED	205-240V, 1phase, 50/60Hz 4KVA, 8 kVA or 12.0 kVA
OPERATING ENVIRONMENT	Indoor
DIMENSIONS (W x D x H)	38" x 31" x 42" 97 cm x 78 cm x 106 cm
WEIGHT	475 lbs (215 kg)
SHIPPING WEIGHT	550 lbs (250 kg)
PRODUCT CERTIFICATIONS	ISO 9001, CE, TUV NTRL cTUVus
CONTROLS AND AUTOMATION	Fully automatic & unattended
DUTY CYCLE	100% (24/7)
INSTALLATION	"Plug & Play" expedited installation
OPTIONS	Storage tanks, water, systems

Summary specifications. Specifications are subject to change. For full technical specifications, contact Proton Energy Systems.



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