

HOGEN[®] GC

Laboratory Hydrogen Generators





PRODUCT SPECIFICATIONS	HOGEN GC 300	HOGEN GC 600	HOGEN GC 4200
PURE HYDROGEN OUTPUT RATE*	300 cc/min	600 cc/min	4200 cc/min
ELECTROLYTE SYSTEM	Proton Exchange Membrane (PEM) solid electrolyte, maintenance and caustic-free		
HYDROGEN PURIFICATION TECHNOLOGY	Palladium membrane, maintenance-free		PSA, Molecular sieve
HYDROGEN INVENTORY AT FULL CAPACITY	<0.1 gram		<2 grams
DELIVERY PRESSURE PSIG (BAR)	Adjustable, 45 to 200 psig (13.8 bar)		1-200 psig w/optional regulator
PURITY (ASSAY, %)	99.9999%		
IMPURITIES BY SPECIES	<1 ppm water, <1 ppm total N ₂ & O ₂ , <1 ppb hydrocarbons/halocarbons		
AUTO-FILL WATER REPLENISHMENT	Standard		
MANUAL FILL WATER CAPACITY	1.9 liters		N/A (Automatic fill)
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		205 to 240 VAC, single phase, 50 or 60 Hz
ELECTRICAL SERVICE RATING	<1000 watts	<1200 watts	4KVA
CORDSET	US and International cordsets available		Hard wired connection
OPERATING ENVIRONMENT	Laboratory, indoor, temperature-controlled and well ventilated		
DUTY CYCLE	100% (24/7/365)		
DIMENSIONS (W x D x H) (Product / Est. Shipping)	14.5"x 20.5"x 9" (37 x 52 x 23 cm) / 23"x 28"x 16" (58 x 71 x 41 cm)		31"x 38"x 42" (79x 97x 107 cm) / 38"x 45"x 52" (97x 114x 132 cm)
WEIGHT (Product / Est. Shipping)	50 lbs (23 kg) / 65 lbs (30 kg)		625 lbs (284 kg) / 625 lbs (284 kg)
PRODUCT CERTIFICATIONS	cTUVus (UL and CSA equivalent), CE (PED, ATEX, LVD) NYFD Approval		cTUVus (UL and CSA equivalent), NYFD Approval
CONTROLS AND AUTOMATION	LED high visibility display; Adjustable pressure output; Remote alarm terminal/output; Switchable psi/kPa pressure reading		
DIAGNOSTICS AND WARNINGS	Water quality, water level, comprehensive self-diagnostics, leak sensing		
MAINTENANCE	Replace one water quality resin bag every six months		Annual filter changes
OPTIONS	Deionized water supply system, Auto-crossover manifold for backup gas supply, Pressure reducing regulator		
WARRANTY	2 years parts and factory labor		1 year parts only

*Output measurement at 21°C and 1 atmosphere.

Consult Proton Energy Systems Applications Department for proper installation guidelines. Specifications subject to change.



Proton
ENERGY SYSTEMS

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