

HOGEN[®] GC

Laboratory Hydrogen Generators



PROTON
THE LEADER IN **ON SITE** GAS GENERATION.



PRODUCT SPECIFICATIONS	HOGEN GC 300	HOGEN GC 600	HOGEN GC 4800
PURE HYDROGEN OUTPUT RATE*	300 cc / min	600 cc / min	4800 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) ± 5%		1-200 psig w/optional regulator
PURITY (ASSAY, %)	99.99999+%		
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 (<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	Indoor, non-classified, 40°F to 95°F (5°C to 35°C), < 90% RH, 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" (97 x 114 x 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, PED, EMC) NYFD Approval		
CONTROLS AND AUTOMATION	LED high visibility display; Adjustable pressure output; Remote alarm terminal/output; Switchable psi/kPa pressure reading (Ethernet and RS232, 4800 only)		
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 Onsite Applications and Department for proper installation guidelines. Specifications subject to change.



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