

ChromGas™ H2C

Hydrogen Generators for Gas Chromatography



Parker's ChromGas™ H2C hydrogen gas generators provide an optimal blend of safety, reliability, and performance. They employ proven Proton Exchange Membrane (PEM) cell technology to generate ultra-high purity hydrogen on-demand from deionized water and electricity, maintaining low pressure and minimal stored volume.

Equipped with advanced Catalytic Thermal Swing Adsorption drying technology, ChromGas™ H2C delivers industry-leading hydrogen purity that is ideal for supplying GC and GC/MS carrier gas, in addition to all known combustion detectors that are routinely used in today's laboratory workflows.

Our cutting-edge control system enhances user-friendliness, offering unparalleled operational safety and dependability. With the optional Remote Monitoring Module, users gain the ability to visually oversee and manage their ChromGas™ H2C generators remotely. Alarm outputs sent to a centralized computer can help to minimize downtime, while remote access to status indicators and real-time operating data have been shown to improve lab efficiency and productivity.

ChromGas™ H2C maintains a consistent stackable design and compact size that characterizes the entire ChromGas™ series, ensuring effortless integration with other ChromGas™ units and freeing up valuable lab space. Available in six models, these generators provide flow rates ranging from 150ml/min to 1300ml/min, capable of serving multiple detectors simultaneously and accommodating the unique needs of each Parker customer.



Product Features:

- Eliminate dangerous hydrogen cylinders from the work place
- Simple to install and operate
- Compact, reliable with minimal maintenance
- Produces a continuous supply of 99.99999% pure hydrogen at up to 120 psi (8.3 bar)
- 3 year standard cell warranty
- Automatic water fill and remote networking capability
- Stackable with other ChromGas™ products
- Meets NFPA 50A CSA, UL, CE, UKCA, and IEC 61010-1 regulations



ENGINEERING YOUR SUCCESS.

Product Selection

Model	Flow Rate	Purity ¹	Water Consumption ² (24/7, full flow)	Delivery Pressure		Auto Water Fill (AWF)
	ml/min	%	L/week	bar g	psi g	
H2C-150	150	>99.99999	1.2	0.3-8.3	5-120	YES
H2C-300	300	>99.99999	2.4	0.3-8.3	5-120	YES
H2C-500	500	>99.99999	4.1	0.3-8.3	5-120	YES
H2C-700	700	>99.99999	5.7	0.3-8.3	5-120	YES
H2C-1000	1000	>99.99999	8.1	0.3-8.3	5-120	YES
H2C-1300	1300	>99.99999	10.5	0.3-8.3	5-120	YES

¹With respect to oxygen content | ²Based on full flow with 24 hour 7 day operation at 72°F (22°C) ambient temperature.

Technical Data

Ambient Temperature Range	41 - 104°F (5 - 40°C)
Water Supply Pressure	20 psig (1.4 barg) max input pressure
Water Quality	Deionized. ASTM II, >1MΩ, <1µs, filtered to <100µm
Supply Voltage Range	100-240V 50/60 Hz
Port Connections	Hydrogen Outlet Water Drain Auto Water Fill
	¹ / ₈ " Compression Fitting Quick Release Push in Fitting Quick Release Push in Fitting

Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight (Empty)		Weight (Full of Water)	
	mm	in	mm	in	mm	in	kg	lb	kg	lb
H2C-150	565	21.25	342	13.5	457	18	27.2	60	31.2	68.8
H2C-300	565	21.25	342	13.5	457	18	27.2	60	31.2	68.8
H2C-500	565	21.25	342	13.5	457	18	27.2	60	31.2	68.8
H2C-700	565	21.25	342	13.5	457	18	27.2	60	31.2	68.8
H2C-1000	565	21.25	342	13.5	457	18	27.2	60	31.2	68.8
H2C-1300	565	21.25	342	13.5	457	18	27.2	60	31.2	68.8

Preventative Maintenance

Preventative Maintenance Kit	Part Number	Kit Contents
6 month kit	MKH2C-6M	Deionizer Cartridge, Water Filter, Environmental Filters (2x), Filter Replacement Tool
24 month kit	MKH2C-24M	Deionizer cartridge, water filter, environment filters (x2), filter replacement tool, & water pump.

Optional Extras

Description	Part Number	Required for
Remote Monitoring Module	604970903	Remote Monitoring, Remote Alarm, Remote Control

