GAS CHROMATOGRAPHY PRODUCT CATALOGUE

Parker domnick hunter

ENGINEERING YOUR SUCCESS.

Expert gas generation solutions

With a history of expertise in gas generation, Parker are perfectly placed to support reliable and highly profitable operations in analytical science. Working with partners in laboratories across a range of sectors, our industry-leading solutions enable accuracy to be achieved through a constant, on-demand supply of nitrogen, hydrogen and zero air for carrier, make-up and fuel gas.

Offering a wide range of advantages over the traditional cylinder gas supply, gas generators are increasingly becoming the popular choice in many laboratories.

Consistent, reliable purity

The purity of gas from different cylinders can vary, and impurities can be introduced via the pipeline when cylinders are changed. Parker domnick hunter gas generators, however, will prevent variations in quality and supply consistently high-purity gas to ensure extremely sensitive analysis, every time.

Supported by the latest advanced technologies, you can trust Parker domnick hunter gas generators to deliver the reliability and consistency your work demands.

Maximum uptime, minimal downtime

Unlike cylinders, which can run out mid-process and require re-calibration, generators can produce gas around the clock, 24/7. They also reduce the inconvenience caused by having to carry out inventories, re-order cylinders, arrange collection and delivery and carry out 'leak checks'.

Parker domnick hunter gas generators require quick and simple maintenance, with longer intervals between scheduled services. This means downtime is minimised, so you can enjoy significantly increased uptime and greater opportunity for the throughput of samples for analysis, which will have a positive effect on the profitability of your lab operations.

Continuous supply, available on-demand

A permanently installed solution at the point of use in your work environment, a generator will give you easy access to an unlimited supply of gas. This will always be at the correct pressure, flow and temperature, to improve the stability of your instruments and the accuracy of your results.

A safer choice

High-pressure cylinders are inherently linked to safety issues – from the chance of injury from manual handling to the risk of explosion and gas leaks, which can make the atmosphere potentially explosive or deficient in oxygen.

Gas generators from Parker domnick hunter are a safe alternative, thanks to leak detection technology with 'auto shut off' and integral alarms. They also operate at a fraction of the pressure and have low volumes of stored gas, reducing the potential for harm.

Cost efficient with the lowest lifetime cost

In some cases, you can expect to have recouped the cost of your gas generator in less than one year. There are no hidden charges – such as on-going delivery costs, cylinder rental and storage fees for spares and empty cylinders, maintenance costs are low and part replacement is minimal. Their super high energy efficiency also makes them a cost effective choice.

Global support for your peace of mind

We know that business continuity is vital to your work. That's why we offer a comprehensive package of expert service, care and maintenance across our complete analytical gas systems range, worldwide.

From installation, scheduled maintenance and in very rare cases, emergency assistance, wherever you are, you can trust Parker to give you complete peace of mind.

Carrier gas

The mobile phase of gas chromatography requires a carrier gas. Parker understands that purity of a carrier gas is essential, as contaminants can cause column damage and inaccuracies in detection results.

We provide gas generation for frequently used carrier gases, such as hydrogen and nitrogen, providing you with a dry, high-purity, oxygen-free and chemically inert gas, that is both consistently available and cost-efficient.

H-MD

Using proven PEM cell technology, Parker domnick hunter H-MD range generators produce a continuous supply of high-purity hydrogen, for use as carrier gas, on-demand from de-ionized water and electricity. This model works at low pressure and with minimal stored volume, offering you added safety.

- Continuous supply of 99.99995% purity hydrogen
- Precision engineered - simple installation and operation
- Compact design - save space in your laboratory
- Minimal maintenance - maximum uptime and low running costs
- Optimum safety and reliability - innovative intelligent control software and alarms
- Easy to manage - control a number of generators from one central PC

Note: Also suitable for use as fuel gas

UHP-N2

Featuring proven, advanced technology and engineered to the highest standard, Parker UHP-N2 generates a continuous stream of ultra high-purity nitrogen. Ideal for carrier gas applications, it is fully approved for use by major instrumentation manufacturers, giving you complete peace of mind.

- Continuous supply of ultra high-purity nitrogen at 99.9999% purity
- Engineered to ensure maximum reliability and minimal operator attention
- Compact design – requires minimal space in your laboratory
- Advanced noise reduction technology - a quieter working environment
- Economy mode - significantly reduced running costs and increased compressor life
- Single plug & play unit – saves you valuable time
- With or without an integral compressor

Note: Also suitable for use as make-up gas

Product Selection

Model	Flow Rate	Purity*	Water Consumption (24/7, full flow)	Delivery Pressure	
	ml/min	%	L/week	bar g	psi g
20H-MD	160	>99,9999	1,69	0,69-6,89	10-100
40H-MD	250	>99,9999	2,41	0,69-6,89	10-100
60H-MD	500	>99,9999	4,82	0,69-6,89	10-100
110H-MD	1.100	>99,9999	9,64	0,69-6,89	10-100

*With respect to oxygen

Technical Data

Ambient Temperature Range	5 - 40 °C 41 - 104 °F	
Water Supply Pressure*	0,1 bar g 1,45 psi g	
Water Supply Flow Rate*	1 l/min	
Water Quality	Deionised. ASTM II, >1MΩ, <1µs, filtered to <100µm	
Supply Voltage Range	100 V - 230 V 50/60 Hz	
Port Connections	Hydrogen Outlet	1/8" Compression Fitting
	Water Drain	Quick Release Push in Fitting
	Water Fill*	Quick Release Push in Fitting

*With optional AWF

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
20H-MD	456	17,9	342	13,5	470	18,5	20,5	45,2	25	55,1
40H-MD	456	17,9	342	13,5	470	18,5	20,5	45,2	25	55,1
60H-MD	456	17,9	342	13,5	470	18,5	20,5	45,2	25	55,1
110H-MD	456	17,9	342	13,5	470	18,5	23,6	51,8	28	61,7

Preventative Maintenance

Preventative Maintenance Kit	Part Number	Change Frequency
6 Month Kit	M06.HMD.0001	6 months
24 Month Kit	M24.HMD.0001	24 months
60 Month Kit	M60.HMD.0001	60 months

Optional Extras

Description	Part Number	Required for
Remote Networking Module	H2-REMOTE-NET-DH 604971530	Allows cascading of two generators
Remote Monitoring Module	H2-REMOTE-MON-DH-604971532	Allows the remote monitoring of one generator
Installation Kit	IK7532	Suitable for all hydrogen generators
Automatic Water Fill Kit	604979008	Suitable for all hydrogen generators

Product Selection

Model	Flow Rate	Purity*	Inlet Air 8 to 9.9 bar (116 to 143 psi)	Outlet Pressure		Integral Compressor
	L/min	%	L/min	bar g	psi g	
UHPN2-750	0.75	>99.9995	33	5	72.5	NO
UHPN2-750C	0.75	>99.9995	n/a	5	72.5	YES
UHPN2-1500	1.5	>99.9995	117	5	72.5	NO
UHPN2-1500C	1.5	>99.9995	n/a	5	72.5	YES
UHPN2-3000	3.0	>99.9995	116	5	72.5	NO
UHPN2-3000C	3.0	>99.9995	n/a	5	72.5	YES

*Purity with respect to oxygen
Note: Add suffix 'E' for 207-253V 50/60Hz ie. UHPN2 - 750 - E
Add suffix 'W' for 103 - 126V 60Hz ie. UHPN2 - 750 - W
1500 not available in W

Technical Data

Ambient Temperature Range	15-25°C	
	59-77°F	
Inlet Air Quality*	Clean dry compressed air	
	IS08573-1:2010 Class 1.-.1	
Supply Voltage Range	104 - 127V 60Hz	
	207 - 253V 50/60Hz	
Port Connections	Inlet*	1/4" Compression Fitting
	Outlet UHPN2 750	1/8" Compression Fitting
	Outlet UHPN2 1500 & 3000	1/8" Compression Fitting

*Non compressor models only

Weights and Dimensions

Model	Height (H)		Width(W)		Depth (D)		Weight (with compressor)		Weight (without compressor)
	mm	in	mm	in	mm	in	kg	lb	kg
UHPN2-750, 750C	869	34.2	345	13.6	417	16.4	50	110	44
UHPN2-1500, 1500C, 3000, 3000C	869	34.2	345	13.6	667	26.3	93	205	84

Preventative Maintenance

Preventative Maintenance Kit UHPN2-750, 750C	Part Number	Change Frequency
Filter Kit - non compressor models	606272551	12 months
Filter Kit - compressor models	606272553	12 months
Compressor Kit 230V	606272577	8,000 hours or 24 months (whichever comes first)
Compressor Kit 120V	606272579	8,000 hours or 24 months (whichever comes first)

Preventative Maintenance Kit UHPN2-1500, 1500C, 3000, 3000C	Part Number	Change Frequency
Filter Kit - non compressor option	606272551	12 months
Filter Kit - compressor option	606272555	12 months
Compressor Kit 230V	606272581	8,000 hours or 24 months (which ever comes first)
Compressor Kit 120V	606272583	8,000 hours or 24 months (which ever comes first)

Optional Extras

Description	Part Number	Required for
Installation Kit	IK7694	Suitable for all UHP nitrogen generators

Fuel gas

Used to support combustion within the detector, the hydrogen-air gas creates an ideal flame for analysis.

Parker provides gas generation solutions for flame support – a mix of hydrogen and zero air – to ensure accurate analyses, consistent results and detector sensitivity thanks to a high intensity flame.

H

Using proven PEM cell technology, Parker domnick hunter H range generators produce a continuous supply of high purity hydrogen, for use as fuel gas, on-demand from de-ionized water and electricity. This model works at low pressure and with minimal stored volume, offering you added safety.

- Continuous supply of 99.9995% purity hydrogen
- Precision engineered - simple installation and operation
- Compact design - save space in your laboratory
- Minimal maintenance - maximum uptime and low running costs
- Optimum safety and reliability - innovative intelligent control software and alarms
- Easy to manage - control a number of generators from one central PC

UHP-ZA

Parker UHP-ZA produces ultra high-purity zero grade air from an existing compressed air source. Ensuring a lower and more stable baseline signal, it allows for higher sensitivity or larger peak areas so you can enjoy superior limits of detection over and above traditional modes of supply.

- Engineered with state-of-the-art components - enhanced reliability and long term performance
- Minimal operator attention and maintenance required
- Silent operation - improved working environment
- Compact design - save space in your laboratory
- Low operating costs - economical alternative to cylinders
- Innovative, stackable system – facilitates the mounting of a Parker domnick hunter hydrogen generator

Product Selection

Model	Flow Rate	Purity*	Water Consumption (24/7, full flow)	Delivery Pressure	
	ml/min	%	L/week	bar g	psi g
20H	160	>99.9995	1.25	0.3-6.89	5-100
40H	250	>99.9995	2	0.3-6.89	5-100
60H	500	>99.9995	4	0.3-6.89	5-100

*With respect to oxygen

Technical Data

Ambient Temperature Range	5-40°C 41-104°F	
Water Supply Pressure*	0.1 bar g 1.45 psi g	
Water Supply Flow Rate*	1 L/min	
Water Quality	Deionised. ASTM II, >1MΩ, <1µs, filtered to <100µm	
Supply Voltage Range	100 - 230V 50/60Hz	
Port Connections Hydrogen	Hydrogen Outlet	1/8" Compression Fitting
	Water Drain	Quick Release Push in Fitting
	Water Fill*	Quick Release Push in Fitting

*With optional AWF

Weights and Dimensions

Model	Height (H)		Width(W)		Depth (D)		Weight		Weight (Full of Water)	
	mm	in	mm	in	mm	in	kg	lb	kg	lb
20H	456	17.9	342	13.5	437	17.2	19	41.9	23	50.7
40H	456	17.9	342	13.5	437	17.2	19	41.9	23	50.7
60H	456	17.9	342	13.5	437	17.2	19	41.9	23	50.7

*With respect to oxygen
Note: For auto water fill option add suffix AWF ie 20H-AWF

Preventative Maintenance

Preventative Maintenance Kit	Part Number	Change Frequency
Replacement Desiccant Cartridge	604970412	As required*
6 Month Kit	604970600	6 months
24 Month Kit	604970532	24 months

*20H Continuous operation aprox. 6 to 7 months
*40H Continuous operation aprox. 4 to 5 months
*60H Continuous operation aprox. 2 to 3 months

Optional Extras

Description	Part Number	Required for
Remote Networking Module	H2-REMOTE-NET-DH 604971530	Allows cascading of two generators
Remote Monitoring Module	H2-REMOTE-MON-DH-604971532	Allows the remote monitoring of one generator
Installation Kit	IK7532	Suitable for all hydrogen generators
Automatic Water Fill Kit	604979007	Suitable for all hydrogen generators

Product Selection

Model	Flow Rate	Organic Impurity	Air Inlet @ 4 - 10 bar g (58 - 145 psi g)	Delivery Pressure		Integral Compressor
	L/min	ppm	L/min	bar g	psi g	
UHP-10ZA-S	1	<0.1	1.2	4-10	58-145	NO
UHP-35ZA-S	3.5	<0.1	4.2	4-10	58-145	NO
UHP-50ZA-S	5.0	<0.1	6.0	4-10	58-145	NO
UHP-75ZA-S	7.5	<0.1	9.0	4-10	58-145	NO
UHP-300ZA-S	30	<0.1	35	4-10	58-145	NO

Note: Add suffix 'E' for 207-253V 50/60Hz ie. UHP-10ZA-S-E
Add suffix 'W' for 103-126V 60Hz ie. UHP - 10ZA-S-W

Technical Data

Ambient Temperature Range	5-40°C	
	41-104°F	
Inlet Air Quality	Clean dry compressed air	
	IS08573-1:2010 Class 2.2.1	
Supply Voltage Range	230V 50/60Hz ± 10%	
	120V 50/60Hz ± 10%	
Port Connections	Outlet (UHP - 10ZA-S & UHP-35ZA-S)	1/8" Compression Fitting
	Inlet (UHP - 10ZA-S & UHP-35ZA-S)	1/8" Compression Fitting
	Outlet (UHP - 50ZA-S - UHP-300ZA-S)	1/4" Compression Fitting
	Inlet (UHP - 50ZA-S - UHP-300ZA-S)	1/4" Compression Fitting

Weights and Dimentions

Model	Height (H)		Width(W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
UHP-10ZA-S	325	12.8	340	13.4	425	16.7	10.2	22.5
UHP-35ZA-S	455	17.9	340	13.4	425	16.7	14.2	31.3
UHP-50ZA-S	455	17.9	340	13.4	425	16.7	14.2	31.3
UHP-75ZA-S	455	17.9	340	13.4	425	16.7	14.2	31.3
UHP-300ZA-S	455	17.9	340	13.4	425	16.7	15.2	33.5

Preventative Maintenance

Preventative Maintenance Kit G6	Part Number	Change Frequency
Inlet Filter PM Kit - all models	005A0	12 months
Outlet Filter PM kit - all models	005AA	12 months

Optional Extras

Description	Part Number	Required for
Installation Kit	IK76803	Suitable for all zero air generators

Make-up gas

Used to enhance the movement of carbon ions through the detector to improve the signal, make-up gases can also improve the sensitivity of detection in gas chromatography.

At Parker, we know that a constant flow of an inert make-up gas is crucial to maintaining the best analytical conditions. Nitrogen makes an ideal make-up gas, thanks to its cost effectiveness at large volumes, and our generators can supply you with an unlimited source of high-purity nitrogen, on-demand.

UHP-ZN2

An industry leading dual gas generator, the UHP-ZN2 delivers nitrogen and zero air for make-up gas applications. Producing ultra high-purity nitrogen from standard compressed air, with <0.1 ppm hydrocarbon content, it will enable you to achieve the most accurate results.

- Continuous supply of ultra high-purity, organic free nitrogen
- Engineered to ensure maximum reliability and minimal operator attention
- Compact design – requires minimal space in your laboratory
- Noise reduction technology - a quieter working environment
- Integral heated catalyst – ensures carrier grade nitrogen
- Economy mode - significantly reduced running costs and increased compressor life
- Single plug & play unit – saves you valuable time
- With or without an integral compressor

Note: Also suitable for use as carrier gas

G6010 & G7010

The Parker domnick hunter nitrogen and dry air generators employ robust, field proven technology to produce ultra high-purity nitrogen and dry air suitable for make-up gas applications. This model combines innovative technology, compact design and functionality to provide a continuous stream of nitrogen which guarantees to improve analysis and reproducibility.

- Continuous supply of nitrogen at 99.999% purity and dry air
- Proven analytical performance – peace of mind
- Compact design – save space in your laboratory
- Minimal operator attention and maintenance – maximised up-time and reduced running costs
- Noise reduction technology – quieter working environment
- Lowest lifetime cost – payback typically less than 24 months
- Integral oil free air compressor
- Single plug & play unit – saves you valuable time

Product Selection

Model	Flow Rate	Purity*		Inlet Air @ 9 to 9.9 bar (131 to 143 psi)	Delivery Pressure		Integral Compressor
	L/min	ppm organic impurity	%	L/min	bar g	psi g	
UHPZN2-1000	1	<0.1 Total Hydrocarbons	>99.9995%	42	5	72.5	NO
UHPZN2-1000C	1	<0.1 Total Hydrocarbons	>99.9995%	n/a	5	72.5	YES
UHPZN2-3000	3	<0.1 Total Hydrocarbons	>99.9995%	52	5	72.5	NO
UHPZN2-3000C	3	<0.1 Total Hydrocarbons	>99.9995%	n/a	5	72.5	YES

*Purity with respect to oxygen
Note: Add suffix 'E' for 207-253V 50/60Hz ie. UHPZN2 - 1000 - E
Add suffix 'W' for 103 - 126V 60Hz ie. UHPZN2 - 1000 - W

Technical Data

Ambient Temperature Range	15-25°C 59-77°F	
Inlet Air Quality*	Clean dry compressed air IS08573-1:2010 Class 1.-.1	
Supply Voltage Range	104 - 127V 60Hz 207 - 253V 50/60Hz	
Port Connections	Inlet*	1/4" Compression Fitting
	Outlet	1/8" Compression Fitting

*Non compressor models only

Weights and Dimensions

Model	Height (H)		Width(W)		Depth (D)		Weight (with compressor)		Weight (without compressor)	
	mm	in	mm	in	mm	in	kg	lb	kg	lb
UHPZN2 range	869	34.2	345	13.6	667	26.3	96	211.6	86	189.5

Preventative Maintenance

Preventative Maintenance Kit	Part Number	Change Frequency
Filter Kit - non compressor option	606272561	12 months
Filter Kit - compressor option	606272563	12 months
Compressor Kit 230V	606272581	4,000 hours or 12 months (whichever comes first)
Compressor Kit 115V	606272583	4,000 hours or 12 months (whichever comes first)
Valve Kit - non compressor option	606272573	36 months
Valve Kit - compressor option	606272575	36 months
Catalyst Kit 230V - 3.0 L/min model	606272589	36 months
Catalyst Kit 115V - 3.0 L/min model	606272591	36 months
Fan Kit - non compressor option	606272595	36 months
Fan Kit - compressor option	606272605	36 months

Optional Extras

Description	Part Number	Required for
Installation Kit	IK7694	Suitable for all zero nitrogen generators

Product Selection

Model	Flow Rate		Purity*		Delivery Pressure		Integral Compressor
	Nitrogen	Dry Air	Nitrogen	Dry Air			
	L/min	L/min	%	°C (dew point)	bar g	psi g	
G6-0-1-0-E	0,6	1,5	>99.999	-40	5	72,5	YES
G7-0-1-0-E	3	3	>99.999	-40	5	72,5	YES

*Purity with respect to oxygen
Note: Not available in 110V 60HZ

Technical Data

Ambient Temperature Range	5-40°C 41-104°F	
Supply Voltage Range	103 -126V 60Hz 207 - 253V 50/60z	
Port Connections	Outlet (G6010)	1/8" Compression Fitting

Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
G6010	842	33,1	345	13,6	413	16,3	58	127,9

Preventative Maintenance

Preventative Maintenance Kit G6	Part Number	Change Frequency
Filter Kit - G6 option 1 (compressor)	606272351	12 months
Compressor Kit 230V - G6 option 1	606272336	12 months
Compressor Kit 120V - G6 option 1	606272337	12 months
Solenoid Valve PM Kit 230V option 0	606272340	24,000 hours or 36 months (whichever comes first)
Solenoid Valve PM Kit 120V option 0	606272345	24,000 hours or 36 months (whichever comes first)
Solenoid Valve PM Kit 230V option 1	606202385	24,000 hours or 36 months (whichever comes first)
Solenoid Valve PM Kit 120V option 1	606202388	24,000 hours or 36 months (whichever comes first)

Optional Extras

Description	Part Number	Required for
Installation Kit	IK7694	Suitable for all HP nitrogen generators

Global support

The leading provider of gas systems for the analytical instrument market, Parker domnick hunter provide gas generators that specifically meet the stringent requirements for all the leading analytical instrument manufacturers.

Working with partners in laboratories across the world, in a variety of sectors, our gas solutions fulfil a complex need, yet are engineered for ease of use. They enable accuracy to be achieved through a reliable, on-demand supply of high-purity hydrogen, nitrogen and zero air.

Reliable, dependable and durable

With the largest installed base of gas generators worldwide – in excess of 50,000 – our technology has earned an enviable global reputation for quality and reliability.

Using our range of patented technologies, Parker domnick hunter generators offer a range of unique performance benefits. These include near silent operation, few moving parts and minimal operator attention – with safety and cost efficiency as standard.

For more information or a detailed discussion about your specific requirements please contact Parker or an authorised Parker distributor.

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