High Purity Nitrogen Generators

for GC and other critical analytical applications



The Parker domnick hunter G1 and G2 nitrogen gas generators employ robust, field proven technology to produce ultra high purity nitrogen for critical life science, chemical analysis and spectroscopy applications. Flow rates range from 0.55 L/min to 3 L/min, with purities >99.999%.

The G1 and G2 generators provide a continuous stream of ultra high purity nitrogen from a single 'plug & play' unit. Models are available with and without an integral oil free compressor, are extremely quiet in operation and are fully approved for use by major instrumentation manufacturers.

Innovative design and technology facilitate maximum instrument uptime, attractive return on investment and proven analytical performance, eliminating the need for other modes of supply.



Contact Information:

Parker Hannifin Corporation
Filtration and Separation Division
242 Neck Road
Haverhill, MA 01835
phone 800 343 4048 or 978 858 0505
fax 978 556 7501

www.domnickhunter.com

- Complete 'Plug and Play' system specifically designed for critical analytical applications
- Produces a continuous supply of >99.999% purity nitrogen 24 hours a day
- Integral oil free compressor, with special noise reduction technology
- Eliminate inconvenient and potentially dangerous nitrogen cylinders
- Compact, reliable with minimal operator attention and maintenance
- Phthalate-free componentry



Model	Flow Rate	Purity*	Inlet Air @ 7 bar g (101.5 psi g)	C	Oulet Pressure	Integral Compressor
	L/min	%	L/min	psi g	bar g	
G1000	0.55	>99.999	7	72.5	5	NO
G1010	0.55	>99.999	n/a	72.5	5	YES
G1100	0.75	>99.999	9	72.5	5	NO
G1110	0.75	>99.999	n/a	72.5	5	YES
G2000	1.5	>99.999	18	72.5	5	NO
G2010	1.5	>99.999	n/a	72.5	5	YES
G2100	3.0	>99.999	36	72.5	5	NO
G2110	3.0	>99.999	n/a	72.5	5	YES

^{*}Purity with respect to oxygen

Note: Add suffix 'E' for 207-253V 50/60Hz ie. G1000-E Add suffix 'W' for 103 -126V 60Hz ie. G1000-W

Technical Data

Ambient Temperature Range	5 - 45°C 41 - 113°F
Inlet Air Quality†	Clean dry compressed air ISO8573-1:2001 Class 21
Supply Voltage Range	103 - 126V 60Hz 207 - 253V 50/60Hz
Port Connections Inlet [†] Outlet (G1 range) Outlet (G2 range)	1/4" Compression Fitting 1/8" Compression Fitting 1/4" Compression Fitting

 $^{^{\}dagger}\text{Non compressor models only}$

Weights and Dimensions

Model	I	Height (H) Width (W) D		Width (W)		Depth (D)	Weight (with compresso		Weight (without compressor)	
Wiodei	in	mm	in	mm	in	mm	lb	kg	lb	kg
G1 range	33.1	842	13.6	345	16.3	413	125.7	57	116.8	53
G2 range	34.4	874	13.6	345	26.1	663	198.4	90	169.7	77

Preventative Maintenance

Preventative Maintenance Kit G1	Part Number	Change Frequency
Filter Kit - G1 option 0 (no compressor)	606272350	12 Months
Filter Kit - G1 option 1 (compressor)	606272351	12 Months
Compressor Kit 230V - G1 option 1	606272336	24 Months
Compressor Kit 120V - G1 option 1	606272337	24 Months

Preventative Maintenance Kit G2	Part Number	Change Frequency
Filter Kit - G2 option 0 (no compressor)	606272350	12 Months
Filter Kit - G2 option 1 (compressor)	606272352	12 Months
Compressor Kit 230V - G2 option 1	606272334	12 Months
Compressor Kit 120V - G2 option 1	606272335	12 Months

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Catalog: 174004740_03_NA 10/11



High Purity Nitrogen and Dry Air Generators

Analytical instrumentation



The Parker domnick hunter G6 and G7 nitrogen and dry air generators employ robust, field proven technology to produce ultra high purity nitrogen and dry air suitable for chemical analysis applications.

The G6 and G7 generators provide a continuous stream of nitrogen and dry air from a single 'plug & play' unit, are extremely quiet in operation and are fully approved for use by major instrumentation manufacturers.

Innovative technology, design and function combine to completely eliminate all other modes of supply, facilitating maximum instrument uptime, attractive return on investment and proven analytical performance.



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www.domnickhunter.com

- Ideal for analytical instruments that require high purity nitrogen and air
- Produces a continuous supply of high purity nitrogen >99.999% and clean dry air
- Integral oil free compressor, with special noise reduction technology
- Eliminate inconvenient and potentially dangerous high pressure nitrogen cylinders
- Compact, reliable with minimal operator attention and maintenance
- Improve analysis and reproducibility with guaranteed high purity gas



	Flow Rate		Purity*			Dolivom, Procesuro	
Model	Nitrogen	Dry Air	Nitrogen	Dry Air		Delivery Pressure	Integral Compressor
	L/min	L/min	%	°C (dew point)	psi g	bar g	
G6010	0.60	1.5	>99.999	-40	72.5	5	YES
G7010	3	3	>99.999	-40	72.5	5	YES

^{*}Purity with respect to oxygen

Note: Add suffix 'E' for 207-253V 50/60Hz ie G6010-E Add suffix 'W' for 103 -126V 60Hz ie G6010-W

Technical Data

Ambient Temperature Range	5 - 45°C 41 - 113°F
Supply Voltage Range	103 - 126V 60Hz 207 - 253V 50/60Hz
Port Connections Outlet (G6010) Outlet (G7010)	¹ / ₈ " Compression Fitting ¹ / ₄ " Compression Fitting

Weights and Dimensions

Model Height (H)			Width (W)		Depth (D)	Weight		
Model	in	mm	in	mm	in	mm	lb	kg
G6010	33.1	842	13.6	345	16.3	413	127.9	58
G7010	34.4	874	13.6	345	26.1	663	205	93

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

Preventative Maintenance Kit G7	Part Number	12 Months
Filter Kit - G7 option 1 (compressor)	606272352	12 Months
Compressor Kit 230V - G7 option 1	606272334	12 Months
Compressor Kit 120V - G7 option 1	606272335	12 Months

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Catalog: 174004743_02_NA 10/11



for LC/MS applications - with optional economy mode



The Parker domnick hunter LCMS nitrogen gas generators employ robust, field proven technology to meet the drying, sheath and nebulization gas requirements of today's latest LC/MS instrumentation. Five models operate at flow rates from 15 L/min to 50 L/min.

The LCMS generators provide a continuous stream of high purity nitrogen from a single 'plug & play' unit. Models are available with and without an integral oil free compressor, are extremely quiet in operation and are fully approved for use by major instrumentation manufacturers.

Innovative design and PSA technology facilitate maximum instrument uptime, attractive return on investment and proven analytical performance, eliminating the need for other modes of supply.



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www.domnickhunter.com

- · Ultra high purity, organic free, nitrogen
- Produces a continuous supply of LC/MS grade nitrogen 24 hours a day
- Integral oil free compressor, with noise reduction technology
- Compact, reliable with minimal operator attention and maintenance
- Phthalate-free componentry



Model	Flow Rate	Purity*	Air Inlet @ 8.5 bar g (123.3 psi g) Delivery Pressure		Integral Compressor	
	L/min	%	L/min	psi g	bar g	
LCMS15-0	15	>99	70	101.5	7	NO
LCMS15-1	15	>99	n/a	101.5	7	YES
LCMS20-0	20	>99	70	101.5	7	NO
LCMS20-1	20	>99	n/a	101.5	7	YES
LCMS30-0	30	>99	130	101.5	7	NO
LCMS30-1	30	>98	n/a	101.5	7	YES
LCMS40-0	40	>99	130	101.5	7	NO
LCMS50-0	50	>98	130	101.5	7	NO

^{*}Purity with respect to oxygen

Note: Add suffix 'E' for 207-253V 50/60Hz ie LCMS15-0-E Add suffix 'W' for 103 -126V 60Hz ie LCMS15-0-W

Technical Data

Ambient Temperature Range	5 - 40°C 41 - 104°F
Inlet Air Quality †	Clean dry compressed air ISO8573-1:2001 Class 21
Supply Voltage Range	103 - 126V 60Hz 207 - 253V 50/60Hz
Port Connections Nitrogen Outlet / Air Inlet †	1/4" Compression Fitting

[†]Non compressor models only

Weights and Dimensions

Model	Height (H)		Height (H) Width (W)		Depth (D)		Weight (with compressor	
Wodei	in	mm	in	mm	in	mm	lb	kg
LCMS 15-1	27.8	705	20.1	510	32.5	826	284	129
LCMS 20-1	27.8	705	20.1	510	32.5	826	284	129
LCMS 30-1	27.8	705	20.1	510	32.5	826	284	129
Model	Height (H)		Width (W)		Depth (D)		Weight (witho	out compressor)
Wodei	in	mm	in	mm	in	mm	lb	kg
LCMS 15-0	27.8	705	20.1	510	22.0	559	196	89
LCMS 20-0	27.8	705	20.1	510	22.0	559	196	89
LCMS 30-0	27.8	705	20.1	510	22.9	760	298	135
LCMS 40-0	27.8	705	20.1	510	22.9	760	298	135
LCMS 50-0	27.8	705	20.1	510	22.9	760	298	135

Preventative Maintenance

Preventative Maintenance Kit	Part Number	Change Frequency
Filter Kit - all models	606272251	12 Months
Compressor Kit 230V - Option 1 models	606272253	12 Months
Compressor Kit 120V - Option 1 models	606272261	12 Months

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Catalog: 174004746_03_NA 10/11



for Agilent 6400 & 6500 LC/MS instruments



The Parker domnick hunter LCMS64/65 dual flow nitrogen gas generators employ robust, field proven technology to meet the drying, sheath, nebulization and collision gas requirements of the Agilent Technologies QQQ & Q-TOF instrumentation.

The LCMS64/65 generators provide two continuous streams of high purity nitrogen from a single 'plug & play' unit. Models are available both with and without an integral oil free compressor, are extremely quiet in operation, and fully approved for use by major instrumentation manufacturers.

Innovative design and PSA technology facilitate maximum instrument uptime, attractive return on investment and proven analytical performance, eliminating the need for other modes of supply.



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- Complete 'Plug and Play' system specifically designed for the Agilent 6400 & 6500
- Produces a continuous supply of LC/MS grade nitrogen 24 hours a day
- Integral oil free compressor, with noise reduction technology
- Eliminate inconvenient and potentially dangerous nitrogen cylinders and dewars
- Compact, reliable with minimal operator attention and maintenance
- Phthalate-free componentry



		Flow Rate		Purity*				
Model	Drying, sheath & Nebulization Nitrogen	Collision cell Nitrogen	Drying, sneath		8.5 bar g (123.3 psi g)	Deliv	ery Pressure	Integral Compressor
	L/min	ml/min	%	%	L/min	psi g	bar g	
LCMS64-0	18	200	>98	>99.999	90	98.6	6.8	NO
LCMS64-1	18	200	>98	>99.999	n/a	98.6	6.8	YES
LCMS65-0	30	200	>98	>99.999	90	98.6	6.8	NO
LCMS65-1	30	200	>98	>99.999	n/a	98.6	6.8	YES

^{*}Purity with respect to oxygen

Note: Add suffix 'E' for 207-253V 50/60Hz ie LCMS64-0-E Add suffix 'W' for 103 -126V 60Hz ie LCMS64-0-W

Technical Data

Ambient Temperature Range	5 - 40°C 41 - 104°F
Inlet Air Quality †	Clean dry compressed air ISO8573-1:2001 Class 21
Supply Voltage Range	103 - 126V 60Hz 207 - 253V 50/60Hz
Port Connections Nitrogen Outlet Air Inlet †	1/4" Compression Fitting 1/4" Compression Fitting

[†]Non compressor models only

Weights and Dimensions

Model	Height (H)		Width (W)			Depth (D)	Weight		
Wodei	in	mm	in	mm	in	mm	lb	kg	
LCMS64-0	27.8	705	20.1	510	22	559	227	103	
LCMS64-1	27.8	705	20.1	510	32.5	826	315	143	
LCMS65-0	27.8	705	20.1	510	22	559	227	103	
LCMS65-1	27.8	705	20.1	510	32.5	826	315	143	

Preventative Maintenance

Preventative Maintenance Kit	Part Number	Change Frequency
Filter Kit	606272251	12 Months
Compressor Kit 230V - Option 1 models	606272253	12 Months
Compressor Kit 120V - Option 1 models	606272261	12 Months

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Catalog: 174004748_03_NA 10/11



Nitrogen and Dry Air Generators

for LC/MS instruments



The Parker domnick hunter LCMS20/3 dual flow nitrogen and dry air generators employ robust, field proven technology to meet the nebulization requirements of LC/MS instruments, both in positive and negative ionisation mode.

The LCMS20/3 generators provide two continuous streams of high purity nitrogen and dry air from a single 'plug & play' unit. Models are available with and without an integral oil free compressor, are extremely quiet in operation and are fully approved for use by major instrumentation manufacturers.

Innovative design and PSA technology facilitate maximum instrument uptime, attractive return on investment and proven analytical performance, eliminating the need for other modes of supply.



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- Complete 'Plug and Play' system specifically designed for LC/MS
- Produces a continuous supply of LC/MS grade nitrogen 24 hours a day
- Integral oil free compressor, with noise reduction technology
- Eliminate inconvenient and potentially dangerous nitrogen cylinders
- Compact, reliable with minimal operator attention and maintenance
- Phthalate-free componentry



		Flow Rate	Purity*		Air Inlet @		_		
Model	Nebulization Nitrogen (positive ionization mode)	Nebulization Dry Air (negative ionization mode)	Nebulization Nitrogen (positive ionization mode)	Nebulization Dry Air (negative ionization mode)	8.5 bar g (123.3 psi g)	8.5 bar g Delivery Pressur (123.3 psi g)		Integral Compressor	
	L/min	L/min	%	°C (dew point)	L/min	psi g	bar g		
LCMS20/3-0	20	3	>99	-40	85	101.5	7	NO	
LCMS20/3-1	20	3	>99	-40	n/a	101.5	7	YES	

^{*}Purity with respect to oxygen

Note: Add suffix 'E' for 207-253V 50/60Hz ie. LCMS20/3-0-E Add suffix 'W' for 103 -126V 60Hz ie. LCMS20/3-0-W

Technical Data

Ambient Temperature Range	5 - 40°C 41 - 104°F			
Inlet Air Quality †	Clean dry compressed a ISO8573-1:2001 Class 2			
Supply Voltage Range	103 - 126V 60Hz 207 - 253V 50/60Hz			
Port Connections Outlet Inlet †	¹ /4" Compression Fitting ¹ /4" Compression Fitting			

 $^{^{\}dagger}\text{Non compressor models only}$

Weights and Dimensions

Model	Height (H)			Width (W)		Depth (D)		Weight
Wodei	in	mm	in	mm	in	mm	lb	kg
LCMS20/3-0	27.8	705	20.1	510	22	559	227	103
LCMS20/3-1	27.8	705	20.1	510	32.5	826	315	143

Preventative Maintenance

Preventative Maintenance Kit	Part Number	Change Frequency
Filter Kit	606272251	12 Months
Compressor Kit 230V - Option 1 models	606272253	12 Months
Compressor Kit 120V - Option 1 models	606272261	12 Months

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Catalog: 174004747_04_NA 10/11



MIDIGAS LAB

for multiple LC/MS and centralized laboratory supply applications



The Parker domnick hunter MIDIGAS LAB nitrogen gas generators employ robust, field proven technology to produce high purity nitrogen for a number of medium flow, high demand analytical applications, such as multiple LC/MS installations. Flow rates range from 9 L/min to 408 L/min, with purities from 95% to 99.999%.

The MIDIGAS LAB generators provide a continuous stream of high purity nitrogen from a innovative modular unit. Models are available with or without an external compressed air system, and offer a compelling alternative to other modes of supply such as cylinders or liquid boil off.

Innovative design and PSA technology facilitate maximum instrument uptime, attractive return on investment and proven analytical performance.

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- Innovative modular system specifically for multiple LC/MS and centralized supply applications
- Produces a continuous stream of high purity analytical grade nitrogen 24 hours a day
- Integral automatic economy mode and continuous purity monitoring
- Digital and analog outputs of remote monitoring and alarm capabilities
- Eliminate inconvenient and potentially dangerous nitrogen cylinders and dewars
- Robust, reliable with minimal operator attention and maintenance



Performance data is based on 7 bar g (100 psi g) air inlet pressure and 20° - 25°C (66° - 77°F) ambient temperature. Consult Parker for performance under other specific conditions.

	Nitrogen flow rate m³/hr vs Purity (Oxygen Content)											
Model	Unit	10ppm	100ppm	250ppm	500ppm	0.1%	0.5%	1.0%	2.0%	3.0%	4.0%	5.0%
MIDIGAS2 LAB	L/min	9.2	20.0	25.0	31.7	40.0	56.7	71.7	96.7	120.0	140.0	156.7
WIIDIGASZ LAB	scfh	19.4	42.4	53.0	67.1	84.8	120.1	151.9	204.8	254.3	296.6	332.0
MIDIGAS4 LAB	L/min	20.0	40.0	53.4	65.0	78.3	115.0	141.7	193.3	238.3	278.3	313.3
WIDIGAS4 LAB	scfh	42.4	84.8	113.0	137.7	166.0	243.7	300.2	409.7	505.0	589.8	663.9
MIDIGAS6 LAB	L/min	25.0	53.3	70.0	88.3	108.3	158.3	191.7	253.3	311.7	361.7	408.3
WIDIGASO LAB	scfh	53.0	113.0	148.3	187.2	229.5	335.5	406.1	536.8	660.4	766.3	865.2

Technical Data

Ambient temperature range	5 - 50°C
Nitrogen outlet pressure	up to 11 bar g
Air inlet pressure	6 to 13 bar g
Air Inlet Quality Pressure Dewpoint	-40°C
Particulate	<0.1 micron
Oil	<0.01 mg/m3
Supply Voltage Range	103 - 126V 60Hz 207 - 253V 50/60Hz
Inlet/outlet connections	G ¹ / ₂

Weights and Dimensions

Model		Height (H)	Width (W)		Depth (D)		Weight (with compressor)	
Wodel	in	mm	in	mm	in	mm	lb	kg
MIDIGAS2 LAB	41	1034	18	450	19	471	216	98
MIDIGAS4 LAB	41	1034	18	450	26	640	320	145
MIDIGAS6 LAB	41	1034	18	450	33	809	432	196







MAXIGAS LAB

For multiple LC/MS and centralized laboratory supply applications



The Parker domnick hunter MAXIGAS LAB nitrogen gas generators employ robust, field proven technology to produce high purity nitrogen for a number of high flow, high demand analytical applications including multiple LC/MS. Flow rates range from 30 L/min to 2500 L/min, with purities from 95% to 99.999%.

The MAXIGAS LAB generators provide a continuous stream of high purity nitrogen from a innovative modular unit. Models are available with or without an external compressed air system, and offer a compelling alternative to other modes of supply such as cylinders or merchant gas supply.

Innovative design and technology facilitate maximum instrument uptime, attractive return on investment and proven analytical performance.



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- Innovative modular system specifically for multiple LC/MS and centralized laboratory supply applications
- Produces a continuous stream of high purity anlytical grade nitrogen 24 hours a day
- Integral automatic economy mode and continuous purity monitoring
- Digital and analog outputs of remote monitoring and alarm capabilities
- Eliminate inconvenient and potentially dangerous nitrogen cylinders and dewars
- Robust, reliable with minimal operator attention and maintenance



Performance data is based on 7 bar g (100 psi g) air inlet pressure and 20° - 25°C (66° - 77°F) ambient temperature. Consult Parker for performance under other specific conditions.

	Nitrogen flow rate m³/hr vs Purity (Oxygen Content)												
Model	Unit	10ppm	50ppm	100ppm	250ppm	500ppm	0.1%	0.5%	1.0%	2.0%	3.0%	4.0%	5.0%
MAYIOACIOALAR	L/min	33	60	86	116	134	147	234	296	363	430	484	535
MAXIGAS104 LAB	scfh	71	133	193	249	284	311	496	627	769	911	1025	1135
MAXIGAS106 LAB	L/min	49	89	129	173	201	221	353	443	546	644	726	803
MAXIGAS106 LAB	scfh	104	200	291	375	425	469	747	938	1156	1364	1538	1702
MAYIOACACOLAR	L/min	64	119	171	231	268	299	471	592	729	860	965	1071
MAXIGAS108 LAB	scfh	136	266	385	501	567	633	998	1255	1544	1822	2045	2269
MAXIGAS110 LAB	L/min	80	149	216	288	337	373	587	739	911	1073	1207	1339
MAXIGASTIU LAB	scfh	169	333	483	623	715	791	1244	1565	1931	2275	2558	2836
MANIOAGAGAAA	L/min	98	177	258	347	402	445	705	888	1094	1287	1449	1606
MAXIGAS112 LAB	scfh	207	396	578	749	851	944	1495	1882	2318	2727	3071	3404
MANIOAGAGAAA	L/min	131	225	326	440	512	566	893	1125	1385	1635	1838	2036
MAXIGAS116 LAB	scfh	278	504	732	949	1085	1200	1893	2384	2935	3464	3895	4315
MAXIGAS120 LAB	L/min	162	272	395	532	620	687	1081	1362	1678	1977	2224	2466
WIANIGAG 120 LAD	scfh	344	609886	1148	1315	1456	2291	2885	3556	4189	4713	5225	

Technical Data

Ambient temperature range	5 - 50°C
Nitrogen outlet pressure	up to 13 bar g
Air inlet pressure	6 to 15 bar g
Air Inlet Quality Pressure Dewpoint Particulate Oil	-40°C <0.1 micron <0.01 mg/m3
Supply Voltage Range	103 - 126V 60Hz 207 - 253V 50/60Hz
Air Inlet Quality Air Nitrogen	G1 G ¹ / ₂

Weights and Dimensions

Worghts and Simonsions										
Model	Height (H)		Width (W)		Depth (D)		Weight			
Wodel	in	mm	in	mm	in	mm	lb	kg		
MAXIGAS104 LAB	76	1894	22	550	28	692	741	336		
MAXIGAS106 LAB	76	1894	22	550	34	861	869	394		
MAXIGAS108 LAB	76	1894	22	550	41	1029	1076	488		
MAXIGAS110 LAB	76	1894	22	550	48	1198	1283	582		
MAXIGAS112 LAB	76	1894	22	550	55	1368	1490	676		
MAXIGAS116 LAB	76	1894	22	550	71	1765	1905	864		
MAXIGAS120 LAB	76	1894	22	550	82	2043	2319	1052		

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Analytical and General Laboratory Applications



The Parker domnick hunter G3 and G4 nitrogen gas generators employ robust, field proven technology to produce ultra high purity nitrogen for life science, chemical analysis and spectroscopy applications. Flow rates range from 4 L/min to 14 L/min, with purities from 98% to 99.99%.

The G3 and G4 generators provide a continuous stream of ultra high purity nitrogen from a single 'plug & play' unit. Models are available with and without an integral oil free compressor, are extremely quiet in operation and are fully approved for use by major instrumentation manufacturers.

Innovative design and PSA technology facilitate maximum instrument uptime, attractive return on investment and proven analytical performance, eliminating the need for other modes of supply.



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www.domnickhunter.com

- Complete 'Plug and Play' system for laboratory applications
- Produces a continuous supply of nitrogen from 98 to 99.99% purity
- Integral oil free compressor, with special noise reduction technology
- Eliminate inconvenient and potentially dangerous nitrogen cylinders
- Compact, reliable with minimal operator attention and maintenance
- Improve analysis and reproducibility with guaranteed high purity gas



Model	Flow Rate	Purity*	Inlet Air @ 7 bar g (101.5 psi g)	c	Oulet Pressure	Integral Compressor
	L/min	%	L/min	psi g	bar g	
G3100	4.0	>99.9	22	72.5	5	NO
G3110	4.0	>99.9	n/a	72.5	5	YES
G3200	5.0	>99.5	22	72.5	5	NO
G3210	5.0	>99.5	n/a	72.5	5	YES
G3300	7.0	>99	22	72.5	5	NO
G3310	7.0	>99	n/a	72.5	5	YES
G4000	5.0	>99.99	22	72.5	5	NO
G4010	5.0	>99.99	n/a	72.5	5	YES
G4400	14.0	>98	40	72.5	5	NO
G4410	14.0	>98	n/a	72.5	5	YES
G4510	12.0	>99.5	n/a	101.5	7	YES

^{*}Purity with respect to oxygen

Note: Add suffix 'E' for 207-253V 50/60Hz ie G3100-E Add suffix 'W' for 103 -126V 60Hz ie G3100-W

Technical Data

Ambient Temperature Range	5 - 45°C 41 - 113°F
Inlet Air Quality †	Clean dry compressed air ISO8573-1:2001 Class 21
Supply Voltage Range	103 - 126V 60Hz 207 - 253V 50/60Hz
Port Connections Outlet Inlet †	¹ /4" Compression Fitting ¹ /4" Compression Fitting

[†]Non compressor models only

Weights and Dimensions

Model	ı	Height (H)	Width (W)		Depth (D)		Weight (with compressor)		Weight (without compressor)	
Model	in	mm	in	mm	in	mm	lb	kg	lb	kg
G3 range	34.4	874	13.6	345	26.1	663	185.2	84	156.5	71
G4 range	34.4	874	13.6	345	26.1	663	198.4	90	169.7	77

Preventative Maintenance

Preventative Maintenance Kit G3	Part Number	Change Frequency
Filter Kit - G3 option 0 (no compressor)	606272350	12 Months
Filter Kit - G3 option 1 (compressor)	606272352	12 Months
Compressor Kit 230V - G3 option 1	606272334	12 Months
Compressor Kit 120V - G3 option 1	606272335	12 Months

Preventative Maintenance Kit G4	Part Number	Change Frequency
Filter Kit - G4 option 0 (no compressor)	606272353	12 Months
FilterKit - G4 option 1 (compressor)	606272354	12 Months
Compressor Kit 230V - G4 option 1	606272334	12 Months
Compressor Kit 120V - G4 option 1	606272335	12 Months

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Catalog: 174004741_03_NA 10/11



for Circular Dichroism and ICP purge applications



The Parker domnick hunter CD10 nitrogen gas generator employs robust, field proven technology to meet the complete purge gas requirements of today's latest Circular Dichroism and ICP instrumentation.

The CD10 generator provides a continuous stream of ultra high purity nitrogen suitable for optic, source and plasma torch purge applications, maximizing instrument uptime, productivity and enhancing spectroscopic resolution. The CD10 is extremely quiet in operation and fully approved for use by major instrumentation manufacturers.

Innovative design and PSA technology facilitate maximum instrument uptime, attractive return on investment and proven analytical performance, eliminating the need for other modes of supply.



Contact Information:

Parker Hannifin Corporation
Filtration and Separation Division
242 Neck Road
Haverhill, MA 01835
phone 800 343 4048 or 978 858 0505
fax 978 556 7501

www.domnickhunter.com

- Specifically designed for Circular Dichroism and ICP applications
- Produces a continuous supply of high purity 99.9965% nitrogen 24 hours a day
- Simple to install and operate
- Eliminate inconvenient and potentially dangerous nitrogen cylinders
- Compact, reliable with minimal operator attention and maintenance



Model	Flow Rate	Flow Rate Purity* Air Inlet @ 8.5 bar g (123.3 psi g) Delivery Pressure		very Pressure	Integral Compressor	
	L/min	%	L/min	psi g	bar g	,
CD10-0	10	>99.9965	130	101.5	7	NO

^{*}Purity with respect to oxygen

Note: Add suffix 'E' for 207-253V 50/60Hz ie CD10-0-E Add suffix 'W' for 103 -126V 60Hz ieCD10-0-W

Technical Data

Ambient Temperature Range	5 - 40°C 41 - 104°F
Inlet Air Quality	Clean dry compressed air ISO8573-1:2001 Class 21
Supply Voltage Range	103 - 126V 60Hz 207 - 253V 50/60Hz
Port Connections Outlet Inlet	¹ /4" Compression Fitting ¹ /4" Compression Fitting

Weights and Dimensions

Model	Height (H)		Width (W)			Depth (D)	Weight		
Model	in	mm	in	mm	in	mm	lb	kg	
CD10-0	27.8	705	20.1	510	29.9	760	298	135	

Preventative Maintenance

Preventative Maintenance Kit	Part Number	Change Frequency
Filter Kit	606272251	12 Months







for Edge Medical Devices



The Parker domnick hunter G1-LN-800 nitrogen gas generator employs robust, field proven technology to produce ultra high purity nitrogen for critical life science applications.

The G1-LN-800 generator provides a continuous stream of ultra high purity nitrogen from a single 'plug & play' unit. This system is available with an integral oil free compressor, and is extremely quiet in operation.

Innovative design and PSA technology facilitate maximum instrument uptime, attractive return on investment and proven analytical performance, eliminating the need for other modes of supply.



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www.domnickhunter.com

- Complete 'Plug and Play' system specifically designed for Edge Medical
- Produces a continuous supply of high purity 99.999% nitrogen 24 hours a day
- Integral oil free compressor, with noise reduction technology
- Eliminate inconvenient and potentially dangerous nitrogen cylinders
- Compact, reliable with minimal operator attention and maintenance



Model	Flow Rate	Purity*	Outlet Pressure		Integral Compressor
	ml/min	%	psi g	mbar g	
G1-LN-800	800	>99.999	0.25	17	YES

^{*}Purity with respect to oxygen

Note: Add suffix 'E' for 207-253V 50/60Hz ie G1-LN-800-E Add suffix 'W' for 103 -126V 60Hz ie G1-LN-800-W

Technical Data

Ambient Temperature Range	5 - 45°C 41 - 113°F			
Supply Voltage Range	103 - 126V 60Hz 207 - 253V 50/60Hz			
Port Connections Outlet	¹ / ₄ " Compression Fitting			

Weights and Dimensions

Model	Height (H)			Width (W)		Depth (D)	Depth (D) Weight	
Wiodei	in	mm	in	mm	in	mm	lb	kg
G1-LN-800	22.3	567	15.7	400	27.5	700	181	82

Preventative Maintenance

Preventative Maintenance Kit	Part Number	Change Frequency
Filter and Compressor Kit 230V	606272440	12 Months
Filter and Compressor Service Kit 120V	606272442	12 Months







Offer of Sale

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- 1. <u>Terms and Conditions.</u> Seller's willingness to offer Products, or accept an order for Products, to or from Buyer is expressly conditioned on Buyer's assent to these Terms and Conditions. Seller objects to any contrary or additional term or condition of Buyer's order or any other document issued by Buyer.
- 2. <u>Price Adjustments; Payments.</u> Prices stated on the reverse side or preceding pages of this document are valid for 30 days. After 30 days, Seller may change prices to reflect any increase in its costs resulting from state, federal or local legislation, price increases from its suppliers, or any change in the rate, charge, or classification of any carrier. The prices stated on the reverse or preceding pages of this document do not include any sales, use, or other taxes unless so stated specifically. Unless otherwise specified by Seller, all prices are F.O.B. Seller's facility, and payment is due 30 days from the date of invoice. After 30 days, Buyer shall pay interest on any unpaid invoices at the rate of 1.5% per month or the maximum allowable rate under applicable law.
- 3. Delivery Dates; Title and Risk; Shipment. All delivery dates are approximate and Seller shall not be responsible for any damages resulting from any delay. Regardless of the manner of shipment, title to any products and risk of loss or damage shall pass to Buyer upon tender to the carrier at Seller's facility (i.e., when it's on the truck, it's yours). Unless otherwise stated, Seller may exercise its judgment in choosing the carrier and means of delivery. No deferment of shipment at Buyers' request beyond the respective dates indicated will be made except on terms that will indemnify, defend and hold Seller harmless against all loss and additional expense. Buyer shall be responsible for any additional shipping charges incurred by Seller due to Buyer's changes in shipping, product specifications or in accordance with Section 13, herein.
- 4. <u>Warranty.</u> Seller warrants that the Products sold hereunder shall be free from defects in material or workmanship for a period of 12 months from the date of shipment and covers in-factory repair and parts only. Warranty does not include on site labor, travel expenses, or other expense associated with field repair... This warranty is made only to Buyer and does not extend to anyone to whom Products are sold after purchased from Seller. The prices charged for Seller's products are based upon the exclusive limited warranty stated above, and upon the following disclaimer: <u>DISCLAIMER OF WARRANTY:</u> THIS WARRANTY COMPRISES THE SOLE AND ENTIRE WARRANTY PERTAINING TO PRODUCTS PROVIDED HEREUNDER. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
- 5. Claims; Commencement of Actions. Buyer shall promptly inspect all Products upon delivery. No claims for shortages will be allowed unless reported to the Seller within 10 days of delivery. No other claims against Seller will be allowed unless asserted in writing within 60 days after delivery or, in the case of an alleged breach of warranty, within 30 days after the date within the warranty period on which the defect is or should have been discovered by Buyer. Any action based upon breach of this agreement or upon any other claim arising out of this sale lother than an action by Seller for any amount due to Seller from Buyer] must be commenced within thirteen months from the date of tender of delivery by Seller or, for a cause of action based upon an alleged breach of warranty, within 13 months from the date within the warranty period on which the defect is or should have been discovered by Buyer.
- 6. <u>LIMITATION OF LIABILITY.</u> UPON NOTIFICATION, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE A DEFECTIVE PRODUCT, OR REFUND THE PURCHASE PRICE. IN NO EVENT SHALL SELLER BE LIABLE TO BUYER FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR AS THE RESULT OF, THE SALE, DELIVERY, NON-DELIVERY, SERVICING, USE OR LOSS OF USE OF THE PRODUCTS OR ANY PART THEREOF, OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT SELLER'S WRITTEN CONSENT, EVEN IF SELLER HAS BEEN NEGLIGENT, WHETHER IN CONTRACT, TORT OR OTHER LEGAL THEORY. IN NO EVENT SHALL SELLER'S LIABILITY UNDER ANY CLAIM MADE BY BUYER EXCEED THE PURCHASE PRICE OF THE PRODUCTS.
- **7.** <u>Contingencies.</u> Seller shall not be liable for any default or delay in performance if caused by circumstances beyond the reasonable control of Seller.
- **8.** <u>User Responsibility.</u> The user, through its own analysis and testing, is solely responsible for making the final selection of the system and Product and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application and follow applicable industry standards and Product information. If Seller provides Product or system options, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the Products or systems.
- 9. Loss to Buyer's Property. Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which become Buyer's property, may be considered obsolete and may be destroyed by Seller after two consecutive years have elapsed without Buyer placing an order for the items which are manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.
- 10. <u>Special Tooling.</u> A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture Products. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer.

- In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the Products, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.
- 11. Buyer's Obligation; Rights of Seller. To secure payment of all sums due or otherwise, Seller shall retain a security interest in the goods delivered and this agreement shall be deemed a Security Agreement under the Uniform Commercial Code. Buyer authorizes Seller as its attorney to execute and file on Buyer's behalf all documents Seller deems necessary to perfect its security interest. Seller shall have a security interest in, and lien upon, any property of Buyer in Seller's possession as security for the payment of any amounts owed to Seller by Buyer.
- 12. Improper use and Indemnity. Buyer shall indemnify, defend, and hold Seller harmless from any claim, liability, damages, lawsuits, and costs (including attorney fees), whether for personal injury, property damage, patent, trademark or copyright infringement or any other claim, brought by or incurred by Buyer, Buyer's employees, or any other person, arising out of: (a) improper selection, improper application or other misuse of Products purchased by Buyer from Seller; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of patterns, plans, drawings, or specifications furnished by Buyer to manufacture Product; or (d) Buyer's failure to comply with these terms and conditions. Seller shall not indemnify Buyer under any circumstance except as otherwise provided.
- 13. <u>Cancellations and Changes.</u> Orders shall not be subject to cancellation or change by Buyer for any reason, except with Seller's written consent and upon terms that will indemnify, defend and hold Seller harmless against all direct, incidental and consequential loss or damage. Seller may change product features, specifications, designs and availability with notice to Buyer.
- **14.** <u>Limitation on Assignment.</u> Buyer may not assign its rights or obligations under this agreement without the prior written consent of Seller.
- 15. <u>Entire Agreement.</u> This agreement contains the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of the agreement. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter are herein merged.
- 16. Waiver and Severability. Failure to enforce any provision of this agreement will not waive that provision nor will any such failure prejudice Seller's right to enforce that provision in the future. Invalidation of any provision of this agreement by legislation or other rule of law shall not invalidate any other provision herein. The remaining provisions of this agreement will remain in full force and effect.
- 17. <u>Termination.</u> This agreement may be terminated by Seller for any reason and at any time by giving Buyer thirty [30] days written notice of termination. In addition, Seller may by written notice immediately terminate this agreement for the following: (a) Buyer commits a breach of any provision of this agreement (b) the appointment of a trustee, receiver or custodian for all or any part of Buyer's property (c) the filing of a petition for relief in bankruptcy of the other Party on its own behalf, or by a third party (d) an assignment for the benefit of creditors, or (e) the dissolution or liquidation of the Buyer.
- 18. <u>Governing Law.</u> This agreement and the sale and delivery of all Products hereunder shall be deemed to have taken place in and shall be governed and construed in accordance with the laws of the State of Ohio, as applicable to contracts executed and wholly performed therein and without regard to conflicts of laws principles. Buyer irrevocably agrees and consents to the exclusive jurisdiction and venue of the courts of Cuyahoga County, Ohio with respect to any dispute, controversy or claim arising out of or relating to this agreement. Disputes between the parties shall not be settled by arbitration unless, after a dispute has arisen, both parties expressly agree in writing to arbitrate the dispute.
- 19. Indemnity for Infringement of Intellectual Property Rights. Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Section. Seller will defend and indemnify Buyer against allegations of infringement of U.S. patents, U.S. trademarks, copyrights, trade dress and trade secrets ("Intellectual Property Rights"). Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on an allegation that a Product sold pursuant to this Agreement infringes the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If a Product is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Product, replace or modify the Product so as to make it noninfringing, or offer to accept return of the Product and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to Products delivered hereunder for which the designs are specified in whole or part by Buyer, or infringements resulting from the modification, combination or use in a system of any $Product \ sold \ hereunder. \ The \ foregoing \ provisions \ of \ this \ Section \ shall \ constitute \ Seller's \ sole$ and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual
- 20. <u>Taxes.</u> Unless otherwise indicated, all prices and charges are exclusive of excise, sales, use, property, occupational or like taxes which may be imposed by any taxing authority upon the manufacture, sale or delivery of Products.
- 21. Equal Opportunity Clause. For the performance of government contracts and where dollar value of the Products exceed \$10,000, the equal employment opportunity clauses in Executive Order 11246, VEVRAA, and 41 C.F.R. §§ 60-1.4(a), 60-741.5(a), and 60-250.4, are hereby incorporated.

