







Introducing PEAK

Over the years our dynamic company has stimulated Peak design engineers into some remarkable developments in manufacturing Laboratory Gas Generators.

These clever people have not only greatly improved the performance of our new Gas Generators, but have further ensured that well-established and well-loved products can stand the test of time.

Smoother, quieter and more efficient than anything on the market, our Laboratory Gas Generators offer superb technical performance in the lab and, of course, our world-class after sales service comes as standard.

Some things are very difficult to improve!

Product Application Matrix

		PEAK S	olution
		Single Instrument	Two Instruments
Agilent 1100 Series LC/MSD Nitrogen up to 151/min	No Compressor	Infinity NM18L	Infinity NM32L / Infinity NM45L
@ 80- 100 psi	Built in compressor	Genius NM32LA / Genius NM3G	Genius 3020
Agilent 1200 Series HPLC with ELS Detector	No Compressor	Infinity NM18L	Infinity NM18L
Nitrogen up to 4l/min @ 50psi	Built in compressor	Genius N118LA	Genius N118LA
Agilent 385 ELSD Nitrogen 0.9-3.25 L/min	No Compressor	Infinity NM18L	Infinity NM18L
@ 60 – 100 psi	Built in compressor	NG3000A / NG4000A	Genius N118LA
Agilent 6100 Series Nitrogen up to 15 l/min @ 80 - 100 psi	No Compressor	Infinity NM18L	Infinity NM32L / Infinity NM45L
	Built in compressor	Genius NM32LA / Genius NM3G	Genius 3020
Agilent 6200 Series Nitrogen up to 18 l/min @ 80 - 100 psi	No Compressor	Infinity NM32L	Infinity NM45L
	Built in compressor	Genius NM32LA / Genius NM3G	Genius 3020
Agilent 6300 Series Ion Trap LC/MS	No Compressor	Infinity NM32L	Infinity NM45L
Nitrogen up to 18 I/min @ 80 - 100 psi	Built in compressor	Genius NM32LA / Genius NM3G	Genius 3020
Agilent 6400 Series 6410 / 6420/ 6430	No Compressor	Infinity NM32L	Infinity NM45L
Nitrogen up to 18 I/min @ 80 - 100 psi	Built in compressor	Genius NM32LA / Genius NM3G	Genius 3020
Agilent 6460 LCMS QQQ Nitrogen up to 30 l/min,	No Compressor	Infinity NM32L	Infinity 5010
@ 80 – 100 psi	Built in compressor	Genius NM32LA/ Genius NM3G	Genius 3020

Gas requirements for three or more instruments, please contact Peak directly.

		PEAK S	olution
		Single Instrument	Two Instruments
Agilent 6490 LCMS QQQ iFunnel	No Compressor	Infinity 5010	Infinity 5020
Nitrogen up to 50 l/min @ 80 - 100 psi	Built in compressor	Genius 3010	N/A
Agilent 6500 Series QTOF LC/MS	No Compressor	Infinity NM32L / Infinity NM45L	Infinity 5010
Nitrogen up to 30 l/min @ 80 - 100 psi	Built in compressor	Genius NM32LA / Genius NM3G	Genius 3020
6550 iFunnel Q-TOF LC/MS Nitrogen up to 60 l/min	No Compressor	Infinity 5010	Infinity 5020
@ 80 – 100 psi	Built in compressor	Genius 3010	N/A
Agilent CHIP CUBE Up to 30 L/min of nitrogen standard + Requires 4 l/min of air to be mixed in with the nitrogen supply to achieve 10% oxygen content for Chip Cube operation	Built in compressor	Genius 1023	Genius 3023
CHIP CUBE on iFunnel models Up to 60 L/min of nitrogen standard. + Requires 10 I/min of air to be mixed in with the nitrogen supply to achieve 10% oxygen content for Chip Cube operation	Built in compressor	Genius 3013	N/A
Agilent models with	No Compressor	Infinity NM32L	Infinity 5010
Jet Stream technology Nitrogen 30 I/min @ 100 psi	Built in compressor	Genius NM32LA / Genius NM3G	Genius 3020
Agilent 70 series ICP-0ES Nitrogen 2.1 l/min @ 100 psi	Built in compressor	NG Range	
Agilent Cary 600 Series FTIR spectrometer 10 L/min of clean, dry air or nitrogen < 60 psi	No Compressor	PG	14L

Nitrogen Generator Infinity NM18L - NM45L

The Infinity NM18L-NM45L Nitrogen Generator is Peak Scientific's proven solution for customers requiring nitrogen for their LCMS application.

Technical Specifications	Infinity NM18L	Infinity NM32L	Infinity NM45L
Nitrogen L/min	18	32	45
Outlet Pressure		Input Dependant	
Min/ Max Operating Temperature	5	°C - 35°C / 41°F - 95	i°F
Maximum Pressure Drop (Outlet-Inlet)		8 psig	
Min/Max Air Inlet Pressure	8.	3-10 bar / 120-145	psi
Inlet Air Requiremnet (L/min)	50	90	135
Max Relative Humidity	70% Non-Condensing		
Particles	< 0.01µm		
Gas Outlets	1x 1/4" BSP Female		
Phthalates	None		
Suspended Liquids	None		
Noise Level	54 dB(A) @ 1m		
Electrical Requirements	None		
Dimensions (cm/ ins) WxDxH	47 x 16 x 76 / 19 x 7 x 30		
Weight (kg/ lbs)	13-29		

Peak Part No.	10-2015	10-2250	10-2281	
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Features & Benefits:

Durable - Few moving parts with minimum maintenance requirements

Single Source Solution – one generator can cater for the requirements of multiple applications and multiple laboratories on site

Quiet - Completely silent in operation

Space Saving – Flexibility to position generator where required, the generator is also wall mountable

Simple Installation - Commission Peak Scientific's expert installation engineers, let us do the work for you

Economical - More cost effective than any other gas supply method

Convenient - Gas on demand, no health hazards, no need to worry about running out of gas

"We test all our Gas Generators under strict condidtions to ensure you receive the highest quality."



Nitrogen Generator Infinity 50 Series

These Generators are designed to be connected to an existing air supply and can cater for the requirements of LCMS, LCMSMS, Sample Evaporators, ELSD and NMR applications.

Technical Specifications	5010	5020	5030	5040	5050	5060	5070	5080
Nitrogen (L/min)	60	120	180	240	300	360	420	480
Inlet Air Requirement (L/min)	180	360	540	720	900	1080	1260	1440
Min/ Max Air Inlet Pressure				125-14	15 psi			
Min/ Max Operating Temperature				5°C (41°F) -	30°C (86°F)			
Particles		< 0.01 µm						
Suspended Liquids		None						
Phthalates								
Pressure Dewpoint		-40°C / 40°F						
Electrical Requirements		110 - 230v 50/60 Hz						
Dimensions (cm / ins) WxDxH	50 x 70 x 115 / 19.6 x 27.5 x 45.2							
Weight (kg / lbs)	70	75	80	85	90	95	100	105
Peak Part No.	13-5010	13-5020	13-5030	13-5040	13-5050	13-5060	13-5070	13-5080

Features & Benefits:

Durable - Few moving parts with minimum maintenance requirements

Single Source Solution – one generator can cater for the requirements of multiple applications and multiple laboratories on site

Quiet - Completely silent in operation

Mobile – Flexibility to position generator where required, the generator is supplied with caster wheels for easy mobility

Simple Installation – Commission Peak Scientific's expert installation engineers, let us do the work for you

Economical – More cost effective than any other gas supply method

Convenient - Gas on demand, no health hazards, no need to worry about running out of gas

Eco- Friendly – Onsite gas generation considerably reduces your carbon footprint

Experience – preferred choice supplier of many instruments manufacturers

"Peak Scientific has a presence on every continent and we export to 126 countries worldwide."

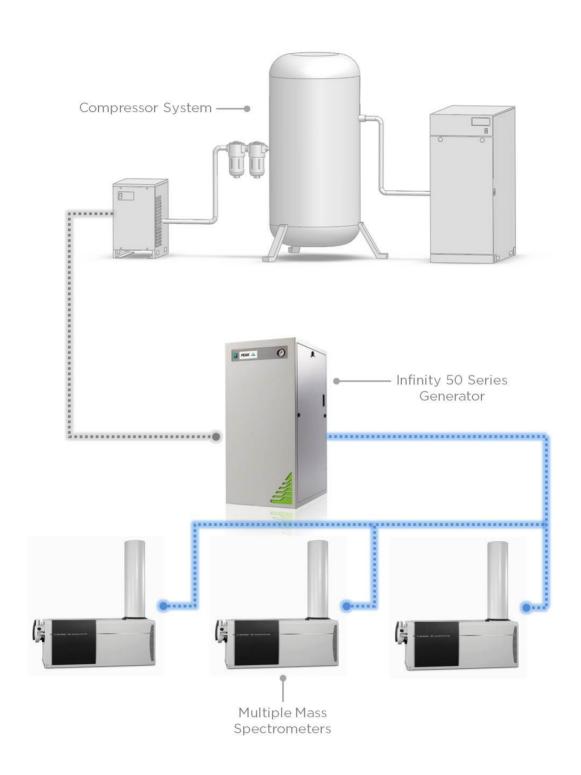


Multiple Labs require... a Total Solution!

The Infinity 50 series requires an external source of air. If you have an application like this give us a call!

We can work with our regional compressor suppliers to provide a total solution supplying gas for 2 to 16 LC/MS instruments accross multipe labs.

We'll even project manage the whole installation. So sit back relax and let Peak take the strain!



Nitrogen Generator Genius NM32LA

The Genius NM32LA Nitrogen Generator is Peak Scientific's proven solution for customers requiring nitrogen for their LCMS application and comes with integrated compressor.

Extensive testing of the generator by mass spec manufacturers throughout the development process guarantees the best nitrogen solution for your LCMS.

Technical Specifications

Nitrogen	32 L/min @ 6.9 bar / 1.13 CFM @ 100 psi
Min/ Max Operating Temperature	5°C - 35°C / 41°F - 95°F
Max Relative Humidity	80% Non-Condensing
Max Altitude	2000 Metres
Particles	< 0.01µm
Gas Outlets	1x 1/4" BSP Female
Phthalates	None
Suspended Liquids	None
Noise Level	54 dB(A) @ 1m
Electrical Requirements	230v 50/60Hz 7.0A
Power Consumption	1610 watts
Dimensions (cm/ ins) WxDxH	60 x 75 x 71.2 / 23.6 x 29.5 x 28
Weight (kg/ lbs)	95 / 209
Peak Part No.	10-6020
Agilent Option	G1953A - option 1
Agilent Part No.	G1953 - 6000

Features & Benefits:

Independent - No external compressor required

Intelligent - High duty and service indication

Quiet - Insulated compressor compartment for minimum disruption

Mobile - Flexibility to position generator where required, even under standard lab bench, the generator is supplied with caster wheels for easy mobility

Simple Installation - Generator designed as plug & play system

Economical - More cost effective than any other gas supply method

Convenient - Gas on demand, no health hazards, no need to worry about running out of gas

"Smoother, quieter and more efficient, our gas generators offer superb technical performance and our world-class after sales service comes as standard."



Nitrogen Generator Genius 3010

The Genius² 3010 Nitrogen Generator is designed specifically as a stand-alone system to provide gas to single LCMS applications which require a high nitrogen flow.

Technical Specifications

Maximum Outlet Gas Flow	64 L/min / 2.26 CFM
Maximum Outlet Gas Pressure	6.90 bar / 100 psi
Min/ Max Operating Temperature	5°C - 35°C / 41°F - 95°F
Max Relative Humidity	80% Non-Condensing
Max Altitude	2000 Metres
Particles	< 0.01µm
Gas Outlets	1x 1/4" BSPP
Phthalates	None
Suspended Liquids	None
Noise Level	54 dB(A) @ 1m
Electrical Requirements	230v 50/60Hz 13A
Power Consumption	2990 watts
Dimensions (cm/ ins) WxDxH	60 x 85 x 130.3 / 23.6 x 33.4 x 51.3
Weight (kg/ lbs)	189 / 417
Peak Part No.	10-6310
Agilent Option	G1953A - option 002
Agilent Part No.	G1953 - 60310

Features & Benefits:

Independent - No external compressor required

Intelligent - Self diagnostic analysis to ensure trouble free operation

Quiet - Insulated compressor department for minimum disruption

Mobile - Flexibility to position generator where required, the generator is supplied with caster wheels for easy mobility

Simple Installation - Generator designed as plug & play system

Economical – More cost effective than any other gas supply method

Convenient – Gas on demand, no health hazards, no need to worry about running out of gas

"Innovative developments to our Nitrogen Range make it unique to the marketplace."









Nitrogen Generator Genius 3020

The Genius² 3020 Nitrogen Generator combines two individual systems with separate Nitrogen outputs into a single compact unit, thus allowing two separate Mass Spectrometers to be supplied by the same Generator with independent control.

Technical Specifications

Maximum Outlet Gas Flow	2 x 32 L/min / 1.13 CFM
Maximum Outlet Gas Pressure	6.90 bar / 100 psi
Min/ Max Operating Temperature	5°C - 35°C / 41°F - 95°F
Max Relative Humidity	80% Non-Condensing
Max Altitude	2000 Metres
Particles	< 0.01µm
Gas Outlets	2x 1/4" BSPP
Phthalates	None
Suspended Liquids	None
Noise Level	54 dB(A) @ 1m
Electrical Requirements	230v 50/60Hz 13A
Power Consumption	2990 watts
Dimensions (cm/ ins) WxDxH	60 x 85 x 130.3 / 23.6 x 33.4 x 51.3
Weight (kg/ lbs)	189 / 417
Peak Part No.	10-6320
Agilent Option	G1953A - option 003
Agilent Part No.	G1953 - 60310

Features & Benefits:

Unique - Offers two seperate nitrogen flows and comes with integrated air compressors

Independent Operation - The gas supplied to both instruments can be switched on and off independently by the user

Ouiet - Insulated compressor compartment for minimum disruption

Mobile- Fitted with casters for easy mobility within the laboratory environment

Simple Installation - Generator designed as plug & play system

Economical - More cost effective than any other gas supply method

Convenient - Gas on demand, no health hazards, no need to worry about running out of gas

"We source robust, high performance parts to ensure safety and reliability in the lab."



Nitrogen Generator Genius 1023

Specifically designed for use with LCMS instruments incorporating the Agilent Chip Cube system. The Genius 1023 Nitrogen Generator is Peak Scientific's proven solution for customers requiring a source of nitrogen, which is switchable between standard LCMS grade Nitrogen and the 10% Oxygen rich Nitrogen required for Chip Cube.

Technical Specifications

Nitrogen	32 L/min @ 6.9 bar / 1.13 CFM @ 100 psi
Min/ Max Operating Temperature	5°C - 35°C / 41°F - 95°F
Max Relative Humidity	80% Non-Condensing
Max Altitude	2000 Metres
Particles	< 0.01µm
Gas Outlets	1x 1/4" BSP Female
Phthalates	None
Suspended Liquids	None
Noise Level	54 dB(A) @ 1m
Electrical Requirements	230v 50/60Hz 7.0A
Power Consumption	1610 watts
Dimensions (cm/ ins) WxDxH	60 x 75 x 71.2 / 23.6 x 29.5 x 28
Weight (kg/ lbs)	95 / 209
Peak Part No.	10 - 9040

Features & Benefits:

Independent - No external compressor required

Intelligent - High duty and service indication

Quiet – Insulated compressor compartment for minimum disruption

Mobile – Flexibility to position generator where required, even under standard lab bench, the generator is supplied with caster wheels for easy mobility

Simple Installation - Generator designed as plug & play system

Economical - More cost effective than any other gas supply method

Convenient - Gas on demand, no health hazards, no need to worry about running out of gas

Switchable – Gas purity switchable between standard LCMS grade and 10% Oxygen rich, specific for Agilent Chip Cube applications.

"We work as a team to ensure the best solution for our customers."



Nitrogen Generator Genius 3013

Specifically designed for use with LCMS instruments incorporating the Agilent Chip Cube system. The Genius 3013 Nitrogen Generator is Peak Scientific's proven solution for customers requiring a source of nitrogen, which is switchable between standard LCMS grade Nitrogen and the 10% Oxygen rich Nitrogen required for Chip Cube.

Technical Specifications

Nitrogen	64 L/min @ 6.9 bar / 1.13 CFM @ 100 psi
Min/ Max Operating Temperature	5°C - 35°C / 41°F - 95°F
Max Relative Humidity	80% Non-Condensing
Max Altitude	2000 Metres
Particles	< 0.01µm
Gas Outlets	1/4" BSP Female
Phthalates	None
Suspended Liquids	None
Noise Level	54 dB(A) @ 1m
Electrical Requirements	230v 50/60Hz 12.0A
Power Consumption	2760 watts
Dimensions (cm/ ins) WxDxH	60 x 85 x 130.3 / 23.6 x 33.4 x 51.3
Weight (kg/ lbs)	189 / 417
Peak Part No.	10 - 6313

Features & Benefits:

Independent - No external compressor required

Intelligent - High duty and service indication

Quiet – Insulated compressor compartment for minimum disruption

Mobile – Flexibility to position generator where required, even under standard lab bench, the generator is supplied with caster wheels for easy mobility

Simple Installation - Generator designed as plug & play system

Economical - More cost effective than any other gas supply method

Convenient - Gas on demand, no health hazards, no need to worry about running out of gas

Switchable – Gas purity switchable between standard LCMS grade and 10% Oxygen rich, specific for Agilent Chip Cube applications.

"These generators are a completely new design in terms of engineering and end user benefits."



Nitrogen Generator Genius 3023

Specifically designed for use with LCMS instruments incorporating the Agilent Chip Cube system. The Genius 3023 Nitrogen Generator is Peak Scientific's proven solution for customers requiring a source of nitrogen, which is switchable between standard LCMS grade Nitrogen and the 10% Oxygen rich Nitrogen required for Chip Cube. The Genius 3023 combines two individual systems with separate Nitrogen outputs into a single compact unit, thus allowing two separate Mass Spectrometers to be supplied by the same Generator with independent control.

Technical Specifications

Nitrogen	32 L/min @ 6.9 bar / 1.13 CFM @ 100 psi
Min/ Max Operating Temperature	5°C - 35°C / 41°F - 95°F
Max Relative Humidity	80% Non-Condensing
Max Altitude	2000 Metres
Particles	< 0.01µm
Gas Outlets	2 x 1/4" BSP Female
Phthalates	None
Suspended Liquids	None
Noise Level	54 dB(A) @ 1m
Electrical Requirements	230v 50/60Hz 12.0A
Power Consumption	2760 watts
Dimensions (cm/ ins) WxDxH	60 x 85 x 130.3 / 23.6 x 33.4 x 51.3
Weight (kg/ lbs)	189 / 417
Peak Part No.	10 - 6324

Features & Renefits

Independent - No external compressor required

Intelligent - High duty and service indication

Ouiet - Insulated compressor compartment for minimum disruption

Mobile - Flexibility to position generator where required, even under standard lab bench, the generator is supplied with caster wheels for easy mobility

Simple Installation - Generator designed as plug & play system

Economical - More cost effective than any other gas supply method

Convenient – Gas on demand, no health hazards, no need to worry about running out of gas

Switchable – Gas purity switchable between standard LCMS grade and 10% Oxygen rich, specific for Agilent Chip Cube applications.

"Our after sales service is world-class. Without fail our expert engineers fix problems first time."



Nitrogen Generator Genius NM3G

The Genius NM3G Nitrogen Generator is designed specifically for use with any LC/MS instrument. This Premium model offers safeguards that are unique to Peak Scientific generators and effectively deliver reassurance and confidence for critical functions.

Technical Specifications

Nitrogen	30 L/min @ 6.9 bar - 1.059 CFM @ 100 psi
Min/ Max Operating Temperature	5°C - 30°C / 41°F - 86°F
Max Relative Humidity	70%
Maximum Altitude	2000 Meters
Particles	< 0.01µm
Gas Outlets 1/4"	1Genius NM3G
Phthalates	None
Suspended Liquids	None
Noise Level	54 dB(A) @ 1m
Electrical Requirements	230v 50/60Hz 9.5A
Power Consumption	2185 watts
Dimensions (cm/ ins) WxDxH	90 x 73 x 75.3 / 35.4 x 28.7 x 29.6
Weight (kg/ lbs)	145 / 319
Peak Part No.	10-8030

Features & Benefits:

Reassurance - Designed with back- up compressor capacity

Fail Safe - Continuous operation to allow for scheduled maintenance

Confidence - Designed and built around extensive tried & tested processes

Intelligent – Advanced alarms and self diagnostics

Independent - No external compressor required

Quiet – Insulated compressor department for minimum disruption

Mobile – Flexibility to position generator where required, even under standard lab bench, the generator is supplied with caster wheels for easy mobility

Simple Installation - Generator designed as plug & play system

Economical - More cost effective than any other gas supply method

Convenient - Gas on demand, no health hazards, no need to worry about running out of gas

"We work as a team to ensure the best solution for our customers."



Nitrogen Generator NG Range

The NG Range of Nitrogen Generator is designed specifically for use as make up and carrier gas for GC Applications, which require ultra high purity nitrogen for operation. The NG Range is also suitable for ICP, DSC, TGA, TOD, TMA and DMA.

Technical Specifications	NG250(A) - NG5000(A)
Nitrogen	250 - 5000 cc/min @ 80psi
Purity N ₂	99.9995%
Pressure Dewpoint	-70°C / -94°F

	Part Number -excl. air compressor		Part Number - incl. air compressor			
	UK	EU	US	UK	EU	US
NG250	10-2022	10-2220	10-2010	10-1010	10-1020	10-1030
NG600	10-2070	10-2071	10-2072	10-1060	10-1070	10-1080
NG1000	10-2110	10-2111	10-2130	10-1110	10-1120	10-1130
NG2000	10-2160	10-2170	10-2180	10-1160	10-1170	10-1180
NG3000	10-2210	10-2211	10-2230	10-1210	10-1220	10-1230
NG4000	10-2260	10-2270	10-2280	10-1260	10-1270	10-1280
NG5000	N/A		10-1292	10-1295	10-1291	

Features & Benefits:

Durable - Few moving parts with minimum maintenance requirements

Single Source Solution - one generator can cater for the requirements of multiple applications and multiple laboratories on site

Quiet - Completely silent in operation

Space Saving - Flexibility to position generator where required, the generator is also wall mountable

Simple Installation - Commission Peak Scientific's expert installation engineers, let us do the work for you

Economical - More cost effective than any other gas supply method

Convenient - Gas on demand, no health hazards, no need to worry about running out of gas

"Peak Scientific has a presence on every continent and we export to 126 countries worldwide."



Service Plans

	Standard	Complete			
PM Visits					
- Call out, labour, travel	✓	✓			
- Service Parts	✓	✓			
- Function Check	✓	✓			
- Additional Spare Parts (if required)	×	✓			
- Compressor Refits/ Replacements (if applicable)	×	✓			
Breakdowns					
- Call out, labour, travel	×	✓			
- Spare Parts	×	✓			
- Full Breakdown Cover	×	✓			
- All on-site breakdown visits included	×	✓			
Guaranteed Response Time	×	✓			
System Upgrades (if applicable)	×	✓			
Flexible Payment	×	✓			

Ordering Information

Standard Maintenance Plan 09-3110 Complete Maintenance Plan 09-3010

Website: www.peakscientific.com

Email: maintenance@peakscientific.com

Our Service and Support Team is known for its excellence.

Working in partnership with **Agilent**, we are there for **you**, wherever **you** are, ensuring **maximum** uptime of your **Peak Scientific Generator**.

Our generators are expertly designed and rarely need attention; however, to maintain optimum performance, regular maintenance is **essential**.

Choosing Peak's service team ensures:

- Specially trained 'Peak employed' service engineers
- Worldwide support
- 72 hour response time
- Dedicated technical support
- NO third party service

No doubt, in your lab you already have enough to worry about, so just take it easy. **Relax**. It's time to let us take the strain and ensure that your generator offers 'peak' performance throughout its lifetime with a **Peak Scientific Service Plan**.

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