



PRODUCT CATALOGUE

ANALYTICAL GAS SYSTEMS

GSFE Division



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ANALYTICAL GAS SYSTEMS - APPLICATIONS OVERVIEW

Gas Chromatography (GC/GC-MS)

Gas chromatography (GC) is one of the most widely used analytical techniques for the separation, identification and quantification of chemical compounds. Reliable, high purity gas supplies are critical to achieving accurate and repeatable analytical results while maximising instrument uptime.

Typical Applications:

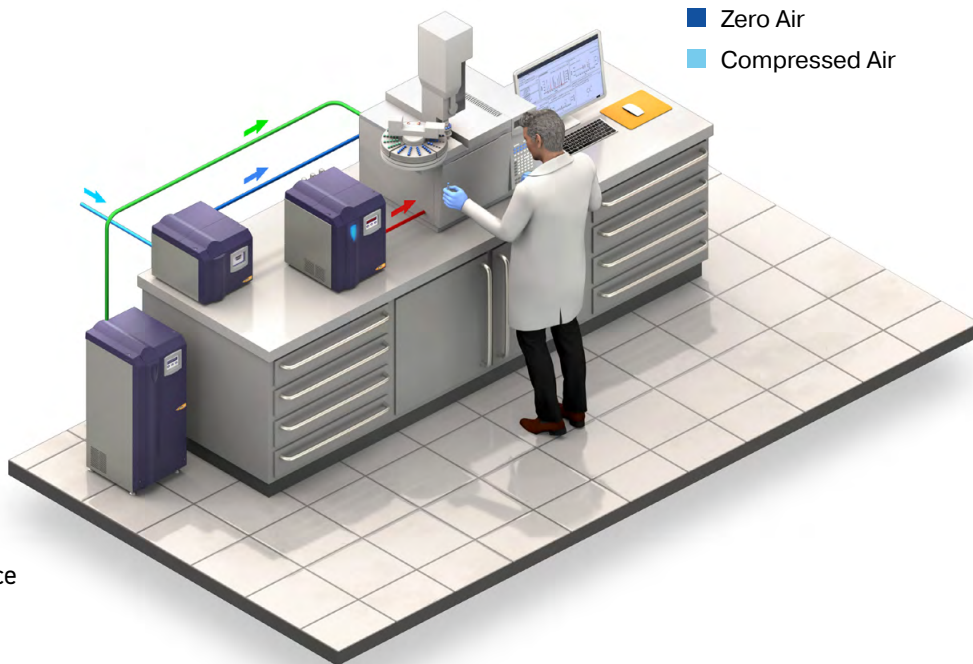
- Petrochemical analysis
- Environmental monitoring
- Food and beverage testing
- Pharmaceutical analysis
- Forensic laboratories
- Research and development

Key Benefits:

- Continuous on demand gas supply
- Elimination of gas cylinder handling
- Improved laboratory safety
- Reduced operating costs
- Consistent gas purity and performance
- Increased instrument uptime

Installation Example

- Nitrogen
- Hydrogen
- Zero Air
- Compressed Air



Liquid Chromatography-Mass Spectrometry (LC-MS)

Liquid Chromatography Mass Spectrometry (LC/MS) is a highly sensitive analytical technique used for the detection and quantification of compounds across pharmaceutical, environmental, clinical and research applications.

Typical Applications:

- Pharmaceutical development and quality control
- Clinical and toxicology laboratories
- Environmental testing
- Food safety analysis
- Chemical research
- Biotechnology applications

Key Benefits:

- Guaranteed gas availability
- Lower operating costs
- Improved laboratory productivity
- Reduced dependence on gas suppliers
- Enhanced safety through cylinder elimination
- Consistent instrument performance

Installation Example

- Nitrogen



ANALYTICAL GAS SYSTEMS - APPLICATIONS OVERVIEW

Spectroscopy and Sample Preparation

Many analytical laboratories require high quality gases to support spectroscopy techniques and sample preparation processes. Applications such as FTIR spectroscopy, NMR analysis and sample evaporation depend on a reliable gas supply to maintain workflow efficiency and analytical performance.

Typical Applications:

- FTIR spectroscopy
- NMR spectroscopy
- Sample evaporation systems
- Research laboratories
- Pharmaceutical development
- Academic institutions

Key Benefits:

- Continuous gas availability
- Reduced laboratory downtime
- Elimination of cylinder logistics
- Improved safety and convenience
- Lower total cost of ownership
- Increased laboratory efficiency

Environmental and Process Analysis

Environmental and process monitoring applications require dependable analytical instrumentation to ensure regulatory compliance, process control and product quality. Total Organic Carbon (TOC) analysis plays a critical role in water quality monitoring, pharmaceutical water systems and industrial process validation.

Typical Applications:

- TOC water quality analysis
- Pharmaceutical purified water systems
- Environmental monitoring laboratories
- Industrial process control
- Utilities and water treatment facilities
- Research and development

Key Benefits:

- Continuous gas availability
- Reduced laboratory downtime
- Elimination of cylinder logistics
- Improved safety and convenience
- Lower total cost of ownership
- Increased laboratory efficiency





H-MD-Carrier Ultra High Purity Hydrogen Generators

For GC and GC/MS carrier gas applications

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		90V - 264V 50/60Hz
Port Connections	Hydrogen Outlet Water Drain Water Fill*	1/8" Compression Fitting Quick Release Push in Fitting Quick Release Push in Fitting

*With optional AWF.



Product Selection

Model	Flow Rate	Purity*	Water Consumption (24/7, full flow)	Delivery Pressure		Optional Auto Water Fill (AWF) [†]
	ml/min	%	L/week	bar g	psi g	
20H-MD-Carrier	160	>99.9999	1.69	0.69-6.89	10-100	Yes
40H-MD-Carrier	250	>99.9999	2.41	0.69-6.89	10-100	Yes
60H-MD-Carrier	500	>99.9999	4.82	0.69-6.89	10-100	Yes
110H-MD-Carrier	1100	>99.9999	10.60	0.69-6.89	10-100	Standard

*With respect to oxygen.

[†]For auto water fill option add suffix AWF ie 20H-MD-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-Carrier	456	17.9	342	13.5	470	18.5	20.5	45.2	25	55.1
40H-MD-Carrier	456	17.9	342	13.5	470	18.5	20.5	45.2	25	55.1
60H-MD-Carrier	456	17.9	342	13.5	470	18.5	20.5	45.2	25	55.1
110H-MD-Carrier	456	17.9	342	13.5	470	18.5	23.6	51.8	28	61.7

Preventative Maintenance

Kit Type	Part Number	Change Frequency	Kit Contents
6 Month service kit	M06.HMD.0001	6 months	Deioniser cartridge, 100 micron water filter, filter replacement tool.
24 Month service kit	M24.HMD.0001	24 months	Float, water pump, service dongle, 1/4" Tygon® tube.
60 Month service kit	M60.HMD.0001	60 months	Dryer column assemblies (x2).

Optional Extras

Description	Part Number	Purpose
Remote Networking Module	H2-REMOTE-NET-DH 604971530	Allows cascading of two generators.
Remote Networking Expansion Module	H2-REMOTE-EXP-DH 6049711540	Required to cascade each additional generator.



ChromGas H2C Hydrogen Generators

For GC and GC/MS carrier gas applications

Technical Data

Ambient Temperature Range		5 - 40°C 41 - 104°F
Water Supply Pressure		1.4 bar g 20 psi g max input pressure
Water Quality		Deionised. ASTM II, >1MΩ, <1µs, filtered to <100µm
Supply Voltage Range		100V - 200V 50/60Hz
Port Connections	Hydrogen Outlet Water Drain Water Fill*	½" Compression Fitting Quick Release Push in Fitting Quick Release Push in Fitting



Product Selection

Model	Flow Rate	Purity*	Water Consumption (24/7, full flow)†	Delivery Pressure		Optional 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

*With respect to oxygen.

†Based on full flow with 24 hour 7 day operation at 72°F (22°C) ambient temperature..

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

Kit Type	Part Number	Change Frequency	Kit Contents
6 Month service kit	MKH2C-6M	6 months	Deionizer cartridge, water filter, environmental Filters (2x), filter replacement tool.
24 Month service kit	MKH2C-24M	24 months	Deionizer cartridge, water filter, environment filters (x2), filter replacement tool, and water pump.

Optional Extras

Description	Part Number	Purpose
Remote Networking Module	604970903	Remote monitoring, remote alarm, remote control.



H-Fuel High Purity Hydrogen Generators

For GC combustion detector applications

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		90 - 264V 50/60Hz
Port Connections	Hydrogen Outlet Water Drain Water Fill*	1/8" Compression Fitting Quick Release Push in Fitting Quick Release Push in Fitting

*With optional AWF.



Product Selection

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

*With respect to oxygen.

[†]For auto water fill option add suffix AWF ie. 20H-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-Fuel	456	17.9	342	13.5	437	17.2	19	41.9	23	50.7
40H-Fuel	456	17.9	342	13.5	437	17.2	19	41.9	23	50.7
60H-Fuel	456	17.9	342	13.5	437	17.2	19	41.9	23	50.7

Preventative Maintenance

Kit Type	Part Number	Change Frequency	Kit Contents
Replacement desiccant cartridge	MKH2PEM-D	As required*	Desiccant cartridge, cartridge spanner.
6 Month service kit	MKH2PEM-6M	6 months	Deionizer cartridge, water filter, environmental filters (x3), filter replacement tool.
24 Month service kit	MKH2PEM-24M	24 months	Deionizer cartridge, water filter, float, water pump, desiccant cartridge, service toggle, environmental filters (x3).

*20H Continuous operation approx 6 to 7 months.

*40H Continuous operation approx 4 to 5 months.

*60H Continuous operation approx 2 to 3 months.

Optional Extras

Description	Part Number	Function
Remote Networking Module	H2-REMOTE-NET-DH 604971530	Allows cascading of two generators.
Remote Networking Expansion Module	H2-REMOTE-EXP-DH 6049711540	Required to cascade each additional generator.



ChromGas H2F Hydrogen Generators

For GC fuel and ICP-MS collision gas applications

Technical Data

Ambient Temperature Range		5 - 40°C 41 - 104°F
Water Supply Pressure*		<4.1 bar g <60 psi g
Water Supply Flow Rate		1 L/min
Water Quality		Deionised. ASTM II, >1MΩ, <1µs, filtered to <100µm
Supply Voltage Range		90V - 264V 50/60Hz
Port Connections	Hydrogen Outlet Water Drain Water Fill†	1/8" Compression Fitting Quick Release Push in Fitting Quick Release Push in Fitting



*Required, optional AWF. Water bottle can be gravity fed by a suitable deionized water source.

Product Selection

Model	Flow Rate	Purity*	Water Consumption (24/7, full flow)	Delivery Pressure		Optional Auto Water Fill (AWF)†
	ml/min	%	L/week	bar g	psi g	
H2F-100WD	100	>99.9995	0.75	0.3-6.89	5-100	Yes
H2F-165WD	165	>99.9995	1.25	0.3-6.89	5-100	Yes
H2F-260WD	260	>99.9995	2	0.3-6.89	5-100	Yes
H2F-510WD	510	>99.9995	4	0.3-6.89	5-100	Yes

*With respect to oxygen.

†For auto water fill option add suffix AWF ie. H2F-100WD-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
H2F-100WD	435	17.1	342	13.5	457	18	19	41.9	23	50.7
H2F-165WD	435	17.1	342	13.5	457	18	19	41.9	23	50.7
H2F-260WD	435	17.1	342	13.5	457	18	19	41.9	23	50.7
H2F-510WD	435	17.1	342	13.5	457	18	19	41.9	23	50.7

Preventative Maintenance

Kit Type	Part Number	Change Frequency	Kit Contents
Replacement desiccant cartridge	MKH2F-D	As required*	Desiccant cartridge, cartridge spanner.
6 Month service kit	MKH2F-6M	6 months	Deionizer cartridge, water filter, environmental filters (2x), filter replacement tool.
24 Month service kit	MKH2F-24M	24 months	Deionizer cartridge, water filter, environmental filters (2x), filter replacement tool, float, water pump, desiccant cartridge, cartridge spanner, service reset dongle, 1/4" Tygon® tube.

*H2F-100 & H2F-165 - Continuous operation approx 6 to 7 months.

*H2F-260 - Continuous operation approx 4 to 5 months.

*H2F-510 - Continuous operation approx 2 to 3 months.

Optional Extras

Description	Part Number	Purpose
Remote Networking Module	604970903	Remote Monitoring, Remote Alarm, Remote Control.

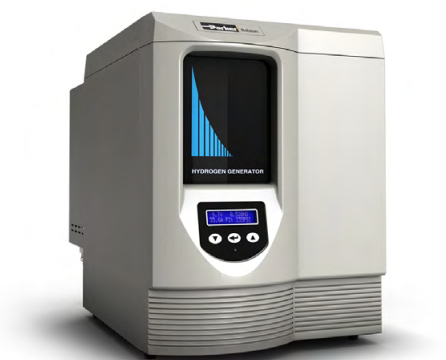


H2PEM Hydrogen Generators

For Fuel Gas

Technical Data

Ambient Temperature Range		5 - 40°C 41 - 104°F
Water Supply Pressure		<1.45 bar g <0.1 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 Outlet Water Drain Water Fill*	1/8" Compression Fitting Quick Release Push in Fitting Quick Release Push in Fitting



Product Selection

Model	Flow Rate	Purity*	Water Consumption (24/7, full flow)	Delivery Pressure (Adjustable)		Auto Water Fill (AWF)	Power Consumption Watts
	ml/min	%	L/week	bar g	psi g		
H2PEM-100	100	>99.9995	0.75	0.3-6.89 (±0.034)	5-100 (±0.5)	Yes	90
H2PEM-165	165	>99.9995	1.25	0.3-6.89 (±0.034)	5-100 (±0.5)	Yes	16
H2PEM-260	260	>99.9995	2	0.3-6.89 (±0.034)	5-100 (±0.5)	Yes	250
H2PEM-510	510	>99.9995	4	0.3-6.89 (±0.034)	5-100 (±0.5)	Yes	500

*With respect to oxygen.

Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
H2PEM-100	435	17	342	13.4	450	18	27	59
H2PEM-165	435	17	342	13.4	450	18	27	59
H2PEM-260	435	17	342	13.4	450	18	27	59
H2PEM-510	435	17	342	13.4	450	18	27	59

Preventative Maintenance

Kit Type	Part Number	Change Frequency
Replacement desiccant cartridge	MKH2PEM-D	As required
6 Month service kit	MKH2PEM-6M	6 months
24 Month service kit	MKH2PEM-24M	24 months

Optional Extras

Description	Part Number
Installation Kit	IK7532
Remote Networking Module	H2-REMOTE-NET-PB 604971531
Remote Networking Expansion Module	H2-REMOTE-EXP-PB 604971541



UHP-ZA Zero Air Generators

For GC combustion detector applications

Technical Data

Ambient Temperature Range			5 - 40°C (41 - 104°F)
Inlet Air Quality			ISO 8573-1:2010 Class 3.2.1 / -40°C PDP
Supply Voltage Range			103 - 126V 60Hz 207 - 253V 50/60Hz
Port Connections	UHP-10/ 35ZA-S	Outlet Inlet	1/8" Compression Fitting 1/8" Compression Fitting
	UHP-50/75/ 300ZA-S	Outlet Inlet	1/4" Compression Fitting 1/4" Compression Fitting



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

[†]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.

Weights and Dimensions

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

Model	Kit Type	Part Number	Change Frequency
UHP-ZA (Up to S/N 2220138)	Inlet filter kit	005A0	12 Months
	Outlet filter kit	005AA	12 Months
UHP-ZA (From S/N 2220139)	Inlet filter kit	P010A0	12 Months
	Outlet filter kit	P010AA	12 Months
All UHP-ZA	Fan kit, 230V	606272525	24 Months
	Fan kit, 120V	606272526	24 Months

Optional Extras

Description	Part Number	Models
Installation kit	IK76803	Suitable for all zero air generators.

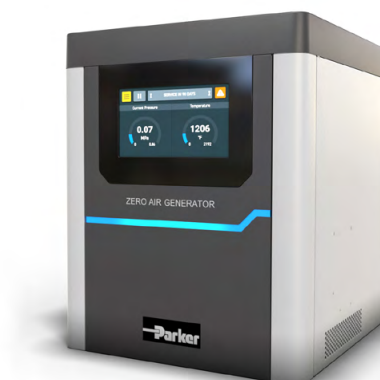


ChromGas ZAG Zero Air Generators

For Gas Chromatography

Technical Data

Ambient Temperature Range	16 - 38°C (60 - 100°F)
Inlet Air Quality	ISO 8573-1:2010 Class 3.2.1 / -40°C PDP
Supply Voltage Range	220V 50Hz
Port Connections	¼" NT (female)



Product Selection

Model	Flow Rate	Organic Impurity	Air Inlet @ 40-125 psi g (2.8-8.6 bar g)	Delivery Pressure		Integral Compressor
	L/min	ppm	L/min	bar g	psi g	
ZAG-3.5LWD	3.5	<0.05	3.5	2.8-8.6	40-125	No
ZAG-7LWD	7	<0.05	7.0	2.8-8.6	40-125	No
ZAG-18LWD	18	<0.05	18.0	2.8-8.6	40-125	No
ZAG-30LWD	30	<0.1	30	2.8-8.6	40-125	No

Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
ZAG-3.5LWD	437	17.2	343	13.5	407	16	14.2	31.3
ZAG-7LWD	437	17.2	343	13.5	407	16	14.2	31.3
ZAG-18LWD	437	17.2	343	13.5	407	16	14.2	31.3
ZAG-30LWD	437	17.2	343	13.5	407	16	15.2	33.5

Preventative Maintenance

Model	Kit Type	Part Number	Change Frequency	Kit Contents
All ZAG Models	12 month service kit	MKZAG-12M	12 months	Replacement filter elements.
ZAG-3.5LWD	36 month service kit	MKZAG-3.5LWD-36M	36 months	Replacement filter elements, replacement catalyst module (220V).
ZAG-7LWD		MKZAG-7LWD-36M		
ZAG-18LWD		MKZAG-18LWD-36M		
ZAG-30LWD		MKZAG-30LWD-36M		

Optional Extras

Description	Part Number	Models
Installation kit	IK76803	Suitable for all zero air generators.



Low Flow Zero Air Generator

Up to 1000 ml/min

Technical Data

Ambient Temperature Range		10 - 35°C (50 - 95°F)
Inlet Air Quality		Clean dry compressed air ISO8573-1:2001 Class 3.2.1
Supply Voltage Range		100-230V - 50/60 Hz
Port Connections	Outlet Inlet	¼" NPT (Female) ¼" NPT (Female)



Product Selection

Model	Flow Rate	Organic Impurity	Maximum Hydrocarbon at Inlet	Inlet Pressure		Pressure Drop at Maximum Flow Rate	
	ml/min	ppm	ppm	bar g	psi g	bar g	psi g
75-83-220	1000	<0.1	100	2.8-8.6	40-125	0.3	4

Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
75-83-220	250	9.84	300	11.8	80	3.54	2	4.4

Preventative Maintenance

Kit Type	Part Number	Change Frequency	Kit Contents
Replacement Catalyst Module	MK7583	36 months	Catalyst module.



Explosion-Proof Zero Air Generator

Fuel air to process GC-FIDs and zero grade gas for analytical instruments

Technical Data

Ambient Temperature Range		10 - 35°C (50 - 95°F)
Inlet Air Quality		Clean dry compressed air ISO8573-1:2001 Class 3.2.1
Supply Voltage Range		230V - 50 Hz
Port Connections	Outlet Inlet	¼" NPT (Female) ¼" NPT (Female)



Product Selection

Model	Flow Rate	Organic Impurity	Maximum Hydrocarbon at Inlet	Inlet Pressure		Outlet Flame Arrestor
	ml/min	ppm	ppm	bar g	psi g	
75-82EU-220	650	<0.1	50	2.8-8.6	40-125	Included

Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
75-82EU-220	180	7.0	340	13.4	150	5.90	11	24.3

Preventative Maintenance

Kit Type	Part Number	Change Frequency	Kit Contents
Replacement Catalyst Module	75398	36 months	Catalyst module.
Final Filter Cartridge	75820	12 months	Replacement Filter Cartridge



G6 High Purity Nitrogen and Dry Air Generator

For analytical instrumentation

Technical Data

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



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	
G6010†	0.60	1.5	>99.999	-40	5	72.5	Yes

*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.

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

Model	Kit Type	Part Number	Change Frequency
G6010	Filter kit	606272351	12 Months
	Compressor kit 230V	606272336	12 Months
	Compressor kit 120V	606272337	12 Months

Optional Extras

Description	Part Number	Models
Installation kit	IK7694	Suitable for all HP nitrogen/dry air generators.

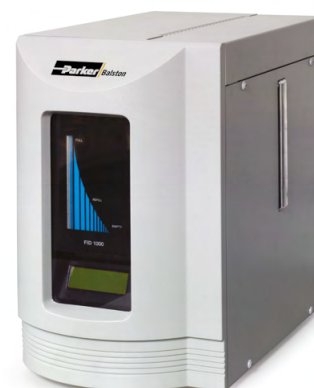


FID Gas Stations

Hydrogen gas and zero grade air for FID detectors on gas chromatographs

Technical Data

Ambient Temperature Range		10 - 35°C (50 - 95°F)
Inlet Air Quality		Clean dry compressed air ISO8573-1:2001 Class 3.2.1
Supply Voltage Range		120/230 VAC, 60/50 Hz
Port Connections	Outlet Inlet	1/8" Compression Fitting 1/4" NPT



Product Selection

	Maximum Flow Rate		Purity	Organic Impurity	Delivery Pressure			
			Hydrogen	Zero Air	Hydrogen		Zero Air	
	Hydrogen	Zero Air	%	ppm	bar g	psi g	bar g	psi g
FID-1000EU	90 ml/min	1000 ml/min	99.9995	<0.1	4.1	60	2.76 - 8.61	40-125
FID-1000UK	90 ml/min	1000 ml/min	99.9995	<0.1	4.1	60	2.76 - 8.61	40-125
FID-2500EU	250 ml/min	2500 ml/min	99.9995	<0.1	4.1	60	2.76 - 8.61	40-125
FID-2500UK	250 ml/min	2500 ml/min	99.9995	<0.1	4.1	60	2.76 - 8.61	40-125

Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
FID-1000EU	420	16.5	270	10.5	430	17	24	53
FID-1000UK	420	16.5	270	10.5	430	17	24	53
FID-2500EU	420	16.5	270	10.5	430	17	24	53
FID-2500UK	420	16.5	270	10.5	430	17	24	53

Preventative Maintenance

Kit Type	Part Number	Change Frequency	Kit Contents
Maintenance Kit	MKFID1000	12 months	Desiccant cartridge, resin cartridge, prefilter for catalyst and sintered metal final filter.
Resin Bed Cartridge	B02-0323	6 Months	Replacement Cartridge.
Desiccant Cartridge	1647727	As required	Replacement Cartridge.
Maintenance Kit Zero Air	MK7583	12 Months	-
Installation Kit	IK7532	N/A	-



UHPN2 Ultra High Purity Nitrogen Generators

For GC and other critical analytical applications

Technical Data

Ambient Temperature Range		15 - 25°C (59 - 77°F)
Inlet Air Quality*		ISO 8573-1:2010 Class 3.2.1 / -40°C PDP
Supply Voltage Range		103 - 126V 60Hz 207 - 253V 50/60Hz
Port Connections	Inlet* Outlet UHPN2 750 Outlet UHPN2 3000	¼" Compression Fitting ⅜" Compression Fitting ¼" Compression Fitting

*Non compressor models only.



Product Selection

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

*Purity with respect to oxygen.

†Add suffix 'E' for 207-253V 50/60Hz ie. UHPN2-750C-E.

†Add suffix 'W' for 103-126V 60Hz ie. UHPN2-750C-W.

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
UHPN2-750, 750C	869	34.2	345	13.6	417	16.4	50	110	44	97
UHPN2-3000, 3000C	869	34.2	345	13.6	667	667	93	205	84	185

Preventative Maintenance

Model	Kit Type	Part Number	Change Frequency
UHPN2-750, 750C	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).
UHPN2-1500, 3000, 3000C	Kit Type	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 (whichever comes first).
	Compressor kit 120V	606272583	8,000 hours or 24 months (whichever comes first).

Optional Extras

Description	Part Number	Models
Installation kit	IK7694	Suitable for all UHP nitrogen generators.



UHPZN2 Ultra High Purity Zero Nitrogen Generators

For GC makeup gas and carrier gas applications

Technical Data

Ambient Temperature Range		15 - 25°C (59 - 77°F)
Inlet Air Quality*		ISO 8573-1:2010 Class 3.2.1 / -40°C PDP
Supply Voltage Range		103 - 126V 60Hz 207 - 253V 50/60Hz
Port Connections	Inlet* Outlet	¼" Compression Fitting ⅜" Compression Fitting

*Non compressor models only.



Product Selection

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

*Purity with respect to oxygen.

†Add suffix 'E' for 207-253V 50/60Hz ie. UHPZN2-1000-E.

‡Add suffix 'W' for 103-126V 60Hz ie. UHPZN2-1000-W.

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

Model	Kit Type	Part Number	Change Frequency
All UHPZN2	Filter kit - Non compressor models	606272561	12 Months
	Filter kit - Compressor models	606272563	12 Months
	Compressor kit 230V	606272581	8,000 hours or 24 months (which ever comes first).

Optional Extras

Description	Part Number	Models
Installation kit	IK7694	Suitable for all UHP ZN2 zero nitrogen generators.



NitroFlow Lab Nitrogen Generator

For LC/MS applications

Technical Data

Ambient Temperature Range		10 - 35°C (50 - 95°F)
Supply Voltage Range		230V 50/60Hz
Port Connections	Inlet Outlet	N/A G¼ (optional 6 and 8 mm push fit connectors included)



Product Selection

Model	Part Number	Flow Rate	Purity*	Delivery Pressure		Integral Compressor
		L/min	%	bar g	psi g	
NitroFlow Lab	159.003848	32	Up to 99.5 %	8	116	Yes

*Purity with respect to oxygen and is based on flow. Higher flow results in lower purity.

Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
NitroFlow Lab	700	28	310	12	900	35	93	205

Preventative Maintenance

Kit Type	Part Number	Change Frequency
Carbon adsorber	159.003754	8,000 hours
Oxygen sensor	159.005574	36 Months
Air compressor 230V/50Hz	606262350	8,000 hours or 24 months (whichever comes first).
Nitrogen compressor LP/HP 230V/50Hz	606262352	8,000 hours or 24 months (whichever comes first).



LCMS20/30 Nitrogen Generators

For LC/MS applications -
with optional economy mode

Technical Data

Ambient Temperature Range		5 - 40°C (41 - 104°F)
Inlet Air Quality*		ISO 8573-1:2010 Class 1.-.1 / -40°C PDP
Supply Voltage Range		103 - 126V 60Hz 207 - 253V 50/60Hz
Port Connections	Nitrogen Outlet Air Inlet*	¼" Compression Fitting ¼" Compression Fitting

*Non compressor models only



Product Selection

Model	Flow Rate	Purity*	Air Inlet @ 8.5 bar g (123.3 psi g)	Delivery Pressure		Integral Compressor
	L/min	%	L/min	bar g	psi g	
LCMS20-0†	20	>99	70	7	101.5	No
LCMS20-1†	20	>99	n/a	7	101.5	Yes
LCMS30-0†	30	>99	130	7	101.5	No
LCMS30-1†	30	>99	n/a	7	101.5	Yes

*Purity with respect to oxygen.

†Add suffix 'E' for 207-253V 50/60Hz ie LCMS20-0-E.

†Add suffix 'W' for 103-126V 60Hz ie LCMS20-0-W.

LCMS-ECOMax Add-on-Module (Optional Extra)

Product	Description	Compatibility	Installation	Height (H)		Width (W)		Depth (D)		Weight	
				mm	in	mm	in	mm	in	Kg	lb
LCMS- ECOMax-230V	Enables economy mode cycle supplying nitrogen gas only when required, whilst maintaining constant purity.	LCMS20-50 models with and without integral compressor.	All required fittings supplied with ECOMax module.	103	4.06	303	11.93	408	16.06	7.8	17.2

Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
LCMS 20-1	705	27.8	510	20.1	826	32.5	129*	284*
LCMS 30-1	705	27.8	510	20.1	826	32.5	129*	284*
LCMS 20-0	705	27.8	510	20.1	559	22.0	89†	196†
LCMS 30-0	705	27.8	510	20.1	760	22.9	135†	298†

*With compressor

†Without compressor

Preventative Maintenance

Kit Type	Part Number	Change Frequency
Filter Kit - all models	606272251	12 months
Compressor Kit 230V - Option 1 models	606272253	8,000 hours or 24 months (whichever comes first).
Compressor Kit 120V - Option 1 models	606272261	8,000 hours or 24 months (whichever comes first).

Optional Extras

Description	Part Number	Required for
Installation kit	IK7572	Suitable for all LCMS nitrogen generators.



ALIGN-MG

Multi-Gas Generators

Nitrogen, dry air and zero air for LC/MS

Technical Data

Ambient Temperature Range		16 - 29°C (60 - 85°F)
Supply Voltage Range		123V +/- 15%, 50/60Hz 1 Phase, 20 A, NEMA 6-20R Receptacle
Noise Level		<55 db (A)
Port Connections	Inlet Outlet	¼" NPT ¼" NPT



Product Selection

Model	Flow Rate			Purity			Integral Compressor
	Nitrogen	Zero Air	Dry Air	Nitrogen*	Zero Air	Dry Air	
	L/min	L/min	L/min	%	Organics %	Dewpoint	
ALIGN-MG	19 @ 5.5 bar g (80 psi g)	25 @ 7.6 bar g (110 psi g)	25 @ 7.6 bar g (110 psi g)	Up to 99	99.999	-37°C (-35°F)	Yes
ALIGN-HFMG	26 @ 5.5 bar g (80 psi g)	25 @ 7.6 bar g (110 psi g)	25 @ 7.6 bar g (110 psi g)	Up to 99	99.999	-37°C (-35°F)	Yes

*Purity with respect to oxygen

Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
ALIGN-MG	876	34.5	603	23.75	625	24.62	151	333
ALIGN-HFMG	876	34.5	603	23.75	625	24.62	151	333

Preventative Maintenance

Preventative Maintenance	Part Number	Change Frequency
Filter Kit 1	MKALIGN-MG-1	12 Months
Filter Kit 2	MKALIGN-MG-2*	48 Months

*Includes compressor

Optional Extras

Preventative Maintenance	Part Number	Required For
Voltage Booster	A03-0522	Provides under voltage protection
Exhaust Vent Kit	B06-0394	Enables potential exhaust heat to be vented
Exhaust Vent Booster Fan	B06-0398	Provides boosting for long venting lengths
Exhaust Vent Duct Extension	B04-0693	Extension of venting of exhaust heat



N2-04/240 Nitrogen Generators

For LC/MS Applications

Technical Data

Ambient Temperature Range		10 - 35°C (50 - 95°F)
Inlet Air Quality		Clean dry compressed air ISO8573-1:2001 Class 3.2.1
Supply Voltage Range		100-230V - 50/60 Hz
Port Connections	Outlet Inlet	¼" NPT (Female) ¼" NPT (Female)



N2-120

Product Selection

Model	Flow Rate	Purity*	Inlet Air 7 bar g (100 psi g)	Outlet Pressure		Integral Compressor
	L/min	%	L/min	bar g	psi g	
N2-04	4 @ 6.2 bar g (90 psi g)	99%	30	4.1-10	60-145	No
N2-14	8.3 @ 7 bar g (102 psi g)	99.5%	73	4.1-10	60-145	No
N2-22	13.5 @ 7 bar g (102 psi g)	99.5%	113	4.1-10	60-145	No
N2-35	20.9 @ 7 bar g (102 psi g)	99.5%	171	4.1-10	60-145	No
N2-120	40 @ 7 bar g (102 psi g)	99.5%	167	4.1-10	60-145	No
N2-160	60 @ 7 bar g (102 psi g)	99.5%	249	4.1-10	60-145	No
N2-240	80 @ 7 bar g (102 psi g)	99.5%	334	4.1-10	60-145	No

*Purity with respect to oxygen.

†Add suffix 'E' for 207-253V 50/60Hz ie. UHPN2-750C-E.

†Add suffix 'W' for 103-126V 60Hz ie. UHPN2-750C-W.

Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
N2-04	400	16	610	11	500	13	19	43
N2-14	1308	51.5	460	18	412.5	16.24	34	75
N2-22	1308	51.5	460	18	412.5	16.24	46	101
N2-35	1308	51.5	460	18	412.5	16.24	52.2	115
N2-120	1814.3	71.43	567	26.26	482.6	19	114	250
N2-160	1814.3	71.43	567	26.26	482.6	19	114	250
N2-240	1814.3	71.43	567	26.26	482.6	19	114	250



HPN2 High Purity Nitrogen Generators

For analytical instruments including ICP

Technical Data

Ambient Temperature Range		15 - 25°C (55 - 77°F)
Inlet Air Quality*		ISO 8573-1:2010 Class 3.2.1 / -40°C PDP
Supply Voltage Range		103 - 126V 60Hz 207 - 253V 50/60Hz
Port Connections	Inlet* Outlet	¼" Compression Fitting ¼" Compression Fitting

*Non compressor models only.



Product Selection

Model	Flow Rate	Purity*	Inlet air @ 8 to 9.9 bar g (116 to 143 psi g)**	Outlet Pressure		Integral Compressor
	L/min	%	L/min	bar g	psi g	
HPN2-5000†	5	>99.999	110	5	72.5	No
HPN2-5000C†	5	>99.999	n/a	5	72.5	Yes
HPN2-12500†	12.5	>99.5%	129	5	72.5	No
HPN2-12500C†	12.5	>99.5%	n/a	5	72.5	Yes

*Purity with respect to oxygen.

**Model HPN2-12500 min inlet 9 bar (130 psi).

†Add suffix 'E' for 207-253V 50/60Hz ie. HPN2-7000-E.

†Add suffix 'W' for 103-126V 60Hz ie. HPN2-7000-W.

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
All HPN2	869	34.2	345	13.6	667	26.3	95	189.6	86	209.4

Preventative Maintenance

Model	Kit Type	Part Number	Change Frequency
All HPN2	Filter kit - Non compressor models	606272557	12 Months
	Filter kit - Compressor models	606272559	12 Months
	Compressor kit 230V	606272581	8,000 hours or 24 months (which ever comes first).

Optional Extras

Description	Part Number	Models
Installation kit	IK7694	Suitable for all HPN2 nitrogen generators.



NitroVap Generators

Ultra dry nitrogen for sample evaporators

Technical Data

Ambient Temperature Range		10 - 35°C (50 - 95°F)
Inlet Air Quality		Clean dry compressed air ISO8573-1:2001 Class 3.2.1
Electrical Requirements		Not Required
Port Connections	Inlet Outlet	¼" NPT ¼" NPT



Product Selection

Model	Flow Rate - Inlet Air 10 bar g (145 psi g)	Purity*	Particles	Suspended Liquids	Commercially Sterile	Maximum Operating Pressure	
	L/min	%	> 0.01µm			bar g	psi g
Nitrovap-1LV	155 @ 7 bar g (100 psi g)	90%	None	None	Yes	10.3	150
Nitrovap-2LV	310 @ 7 bar g (100 psi g)	90%	None	None	Yes	10.3	150

Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
Nitrovap-1LV	410	16	270	10.6	340	13.4	22	48.5
Nitrovap-2LV	410	16	270	10.6	340	13.4	22	48.5

Preventative Maintenance

Preventative Maintenance	Part Number	Change Frequency
Nitrovap-1LV and Nitrovap-1LV	MKNITROVAP	12 Months

Optional Extras

Description	Part Number
Installation Kit	IK76803



FT-IR Purge Gas Generators

Purified purge and air bearing gas for FT-IR Spectrometers

Technical Data

Ambient Temperature Range		10 - 35°C (50 - 95°F)
Supply Voltage Range	74-5041 75-62 Spectra 15/30	230V - 50 Hz 120V - 60 Hz 120-230V - 50/60 Hz
Port Connections	Outlet Inlet	¼" NPT (Female) ¼" NPT (Female)



Spectra 15



74-5041

Product Selection

Model	Flow Rate	Dewpoint		CO ₂ Concentration	Maximum Outlet Pressure		Integral Compressor
	L/min	°C	°F	ppm	bar g	psi g	
74-5041	28 @ 5.5 bar g (80 psi g)	-100°F	-73	<1	5.5	80	No
75-62	102 @ 8.6 bar g (125 psi g)	-100°F	-73	<1	5.5	80	Yes
Spectra 15	12 @ 5.5 bar g (80 psi g)	-100°F	-73	<1	5.25	76	Not Required
Spectra 30	23 @ 5.5 bar g (80 psi g)	-100°F	-73	<1	5.25	76	Not Required

Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
74-5041	760	31	460	18	810	32	114	250
75-62	760	31	460	18	810	32	114	250
Spectra 15	330	13	320	13	180	7	28	62
Spectra 30	710	28	320	13	220	9	45	99

Preventative Maintenance

Model	Kit Type	Part Number	Change Frequency
74-5041	Maintenance Kit (1 year)	74065	12 Months
	Compressor Upgrade/Retrofit 115V	B03-0291115v	N/A
	Compressor Upgrade/Retrofit 230V	B03-0292230v	N/A
	Replacement Compressor 115V	B03-0281115v	8000 hours or 24 months
	Replacement Compressor 230V	B03-0282230v	8000 hours or 24 months
75-62	Maintenance Kit (1 year)	IK7572	12 Months
Spectra 15	Maintenance Kit (1 year)	MKSpectra15-12M	12 Months
	Maintenance Kit (2 year)	MKSpectra15-24M	24 Months
Spectra 30	Maintenance Kit (1 year)	MKSpectra30-12M	12 Months
	Maintenance Kit (2 year)	MKSpectra30-24M	24 Months



K-MT LAB CO₂-free Gas Generators

Cleanroom air for GC or TOC applications

Technical Data

Ambient Temperature Range		5 - 50°C (41 - 122°F)
Operating Pressure		5 - 16 bar g (72.5 - 232 psi g)
Noise Level		65 - 86 dB(A)
Protection Class		IP 65
Port Connections	K-MTLAB1-3 K-MTLAB6	¼" BSPP ⅜" BSPP



Product Selection

Model	Outlet Flow Rate	Inlet Flow Rate	Regeneration Gas Volume	CO ₂ Concentration	Residual Hydrocarbons
	L/min	L/min	L/min	ppm	ppm
K-MTLAB1	1.5 @ 7 bar g (102 psi g)	11.5	10	<1	<0.003
K-MTLAB3	20 @ 7 bar g (102 psi g)	56	36	<1	<0.003
K-MTLAB6	100 @ 7 bar g (102 psi g)	175	75	<1	<0.003

Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
K-MTLAB1	401	15.8	372	14.6	210	8.2	14	30.8
K-MTLAB3	827	32.5	429	16.8	210	8.2	20	44
K-MTLAB6	1185	46.6	580	22.8	300	11.8	54	119

Preventative Maintenance

Kit Type	Model	Part Number	Change Frequency	Contents
12 Month Service Kit	K-MTLAB1-3	SKK1-K3/L1/12	12 months	Filter cartridges, condensate drain, silencer, reset module.
	K-MTLAB6	SKK6/L1/12		
24 Month Service Kit	K-MTLAB1-3	SKK1-K3/L1/24	24 months	Filter cartridges, condensate drain, silencer, main valves, seal set, reset module.
	K-MTLAB6	SKK6/L1/24		
Desiccant Change Kit	All	DESPAC 2 LAB	36 months	Desiccant pack, 2.0 kg of molecular filter granulate. See below for quantities*.

*Required quantities: K-MT-LAB 1 (x1) K-MT-LAB 3 (x3) K-MT-LAB 6 (x7)



Ultra Dry Gas Generator

Compressed air for NMR instruments

Technical Data

Ambient Temperature Range		10 - 35°C (50 - 95°F)
Inlet Air Quality		Clean dry compressed air ISO8573-1:2001 Class 3.2.1
Electrical Requirements		Not Required
Port Connections	Inlet Outlet	¼" NPT ¼" NPT



Product Selection

Model	Flow Rate - Inlet Air 10 bar g (145 psi g)	Purity*	Particles	Suspended Liquids	Commercially Sterile	Maximum Operating Pressure	
	L/min	%	> 0.01µm			bar g	psi g
UDA-300	155 @ 7 bar g (100 psi g)	90%	None	None	Yes	10.3	150

Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
UDA-300	410	16	270	10.6	340	13.4	22	48.5

Preventative Maintenance

Preventative Maintenance	Part Number	Change Frequency
Replacement Filter Cartridge 1st Stage	100-18-DX	12 Months
Replacement Filter Cartridge 2nd Stage	100-18-BX	12 Months
Humidity Indicator (1 each)	75800	12 Months
Maintenance Kit (1 year)	MK7525	12 Months

Optional Extras

Description	Part Number
Universal 12 VDC Transformer	A03-0192
Pressure Regulator	72-130-V883
Single Style Flow Controller	W-FM6410
Manifolded and Single Style Flow Controllers	72-400 Series (1)
Auxiliary Coalescing Prefilter	2206N-1B1-DX



TOC Gas Generators

Carrier/combustion gas for TOC instruments

Technical Data

Ambient Temperature Range		10 - 35°C (50 - 95°F)
Supply Voltage Range		120-230V - 50/60 Hz
Port Connections	Outlet Inlet Drain	¼" NPT (Female) ¼" NPT (Female) ¼" NPT (Female)



Product Selection

Model	Flow Rate	Hydrocarbon Concentration	CO Concentration	CO ₂ Concentration	Dewpoint		Inlet Pressure	
	cc/min	ppm	ppm	ppm	°C	°F	bar g	psi g
TOC-625	625	<0.05	<1	<1	-73	-100	4 - 8.25	60 - 120
TOC-1250	1250	<0.1	<1	<1	-73	-100	4.5 - 8.6	65 - 125

Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
TOC-625	317.5	12.5	229	9	407	16	34	28
TOC-1250	432	17	280	11	432	17	22	48

Preventative Maintenance

Preventative Maintenance	Model	Part Number	Change Frequency	Contents
Maintenance Kit	TOC-625	MKTOC625-12	12 Months	Replacement Filter Cartridge (BX)
		MKTOC625-36	36 Months	Replacement Filter Cartridge (BX), Catalyst Module (120 V) and Disposable Filter
		MKTOC625-220-36	36 Months	Replacement Filter Cartridge (BX), Catalyst Module (230V) and Disposable Filter
Maintenance Kit	TOC-1250	MK7840	12 Months	Replacement Filter Cartridges (DX, BX) and Final Filter
Replacement Catalyst Module	TOC-1250	76810	36 Months	Catalyst Module

Optional Extras

Description	Part Number
Inlet Pressure Regulator with Pressure Gauge	72-130-V883
Outlet Pressure Regulator, Pressure Gauge, and Shut off Valve	W-405-4032-000
Fuses	13192 (120 V) 13191 (230 V)
Gas Receiver	72-007
Flow controller	W-FM7583
Installation Kit	IK76803

