



PRODUCT CATALOGUE

Analytical Gas Systems

GSFE Division



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Gas Chromatography

The science of separation, gas chromatography is an important technique used for drug, arson, toxicology and other organic compound analysis. It is carried out in laboratories across a range of areas, including quality control, R&D, pharmaceuticals and forensics.

In order to obtain accurate and meaningful results, Parker understand that your gas management system has to deliver a consistent and high-purity gas stream - from your source to your instrumentation - without risk of introducing contaminants.



Installation Example

- Nitrogen
- Hydrogen
- Zero Air
- Compressed Air



Hydrogen Generators - H

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.

Hydrogen Generators - HMD

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*	½" 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, ¼" 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.

Hydrogen Generators - ChromGas H2F

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.

*2H2F-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.

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 ⅛" Compression Fitting ¼" Compression Fitting

*Non compressor models only.

Product Selection

Model	Flow Rate	Purity*	Inlet Air 8 to 9.9 bar (116 to 143 psi)	Outlet Pressure		Integral Compressor
	L/min	%		bar g	psi g	
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).
	Kit Type	Part Number	Change Frequency
UHPN2-1500, 3000, 3000C	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.

High Purity Nitrogen and Dry Air Generators

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.

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 (116 to 143 psi)**	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.

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 ⅛" Compression Fitting

*Non compressor models only.



Product Selection

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

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 22Z0138)	Inlet filter kit	005A0	12 Months
	Outlet filter kit	005AA	12 Months
UHP-ZA (From S/N 22Z0139)	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.

Liquid Chromatography Mass Spectrometry

Liquid chromatography mass spectrometry (LC/MS) is used in a range of scientific sectors in applications including drug development, environmental analysis and drug discovery. But LC/MS systems require a consistent, high purity supply of inert or unreactive gas to effectively separate liquid mixtures and accurately identify the components by their mass – tasks that can be complicated by traditional means of supply.



Installation Example

■ Nitrogen



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.

NitroFlow Lab Nitrogen Generators

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).

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