

Parker Gas Generators

INSIDE THIS ISSUE!

Parker Gas Generators

**NEW! Align
Multi-Gas Generator**

Membrane Air Dryers



**Your preferred supplier of chromatography
instruments & consumables**



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Parker Zero Air Generators

- Produce UHP zero air from house compressed air (<0.05 PPM THC)
- Qualitative smart-display provides operational status at a glance
- Silent operation and minimal operator attention required



PARKER ZERO AIR GENERATORS SPECIFICATIONS

MAX INLET HYDROCARBON CONCENTRATION (AS METHANE)	MIN/MAX INLET AIR PRESSURE	OUTLET HYDROCARBON CONCENTRATION (AS METHANE)	PRESSURE DROP AT MAX FLOW RATE	POWER
100 ppm	40 PSI/125 PSI	75-83NA, HPZA-30000: < 0.1 ppm HPZA-3500, HPZA-7000, HPZA-18000: < 0.05 ppm	4 PSI	120 VAC/60 HZ
MAX INLET AIR TEMPERATURE	INLET/OUTLET PORTS	DIMENSIONS	SHIPPING WEIGHT	
78 °F (26 °C)	1/4" NPT (female)	75-83NA: 10" x 13" x 12" HPZA-3500, HPZA-7000, HPZA-18000, HPZA-3000: 11" x 13" x 16"	75-83NA: 7 lbs (3 kg) HPZA-3500, HPZA-7000, HPZA-18000, HPZA-3000: 41 lbs (19 kg)	

PARKER ZERO AIR GENERATORS ORDERING INFORMATION

PART NO	75-83NA	HPZA-3500	HPZA-7000	HPZA-18000	HPZA-30000
Max Flow Rate (mL/min)	1,000	3,500	7,000	18,000	30,000
# of FID's	2-3	Up to 8	15-17	40-45	65+
Install Kit	IK76803	IK76803	IK76803	IK76803	IK76803
12 Month Service PM	75-83NA-PM	HPZA-3500-PM	HPZA-7000-PM	HPZA-18000-PM	HPZA-30000-PM
12 Month Maint Kit (included in PM) Includes filters, seals, and drains	MK7583	MK7840	MK7840	MK7840	MK7840
3 Year PM Plus Includes 12 month service PM + catalyst	75-83NA-PMPLUS	HPZA-3500-PMPLUS	HPZA-7000-PMPLUS	HPZA-18000-PMPLUS	HPZA-30000-PMPLUS
Replacement Tower Module (catalyst)	75394	76810	76820	76811	76821

Note: Service PM includes technician visit, maintenance kits are parts only

Parker FID Gas Stations | Produces UHP Zero Air & Hydrogen Gas

- Produces UHP zero air from house compressed air and 99.99995% pure hydrogen gas
- Increases accuracy of analysis and reduces the cleaning requirement of the detector
- Payback period of typically less than one year
- Automatic water fill
- Silent operation and minimal operator attention required



PARKER FID GAS GENERATORS

PART NO	FID-1000NA	FID-2500NA
Max Nitrogen Flow Rate	90 cc/min	250 cc/min
Max Hydrogen Flow Rate	1,000 cc/min	2,500 cc/min
Installation Service	FID-1000-INST	FID-2500-INST
12 Month Service PM	FID-1000-PM	FID-2500-PM
12 Month Maint Kit Includes filter kit	MKFID1000	MKFID1000
24 Month Service PM	FID-1000-PMPLUS	FID-2500-PMPLUS
24 Month Maint Kit Includes filter kit and catalyst tower module	MKFID1000 + B02-0298	MKFID1000 + B02-0361
36 Month Add-On Includes pump replacement	B02-0441	

Note: Service PM includes technician visit, maintenance kits are parts only

FID GAS STATION SPECIFICATIONS

ZERO AIR PURITY	HYDROGEN PURITY
<0.1 ppm (total hydrocarbon as methane)	99.99995%
ZERO AIR OUTLET PRESSURE	HYDROGEN OUTLET PRESSURE
40 – 125 PSI	60 PSI
CERTIFICATIONS	POWER
IEC 1010-1; CSA 1010; UL 3101; CE Mark	120 VAC, 60 Hz
OUTLET PORTS	SHIPPING WEIGHT
1/8" Compression	53 lbs / 24 kg
INLET PORT	DIMENSIONS
1/4" NPT (female) compressed air supply	10.5" x 17" x 16.5"



Parker Hydrogen Generators for Fuel Gas

- ➔ Ideal for fuel gas, up to 14 FID's
- ➔ Eliminates dangerous and expensive hydrogen gas cylinders
- ➔ Exclusive water management system and control circuitry maximize uptime
- ➔ Unique display lighting changes color for easy status checks
- ➔ Remote control and remote monitoring capable
- ➔ Compact and reliable—only one square foot of bench space required
- ➔ No liquid caustics



2 Year Cell Warranty

PARKER H2PEM GENERATORS ORDERING INFORMATION

PART NO	H2PEM-100	H2PEM-165	H2PEM-260	H2PEM-510
Flow Rate	100 cc/min	165 cc/min	260 cc/min	510 cc/min
6 Month Service PM	H2PEM-PM			
6 Month Maint Kit (Included in 6 Month PM)	MKH2PEM-6M			
Includes deionizer cartridge, water filter, and 3 environmental filters				
24 Month Service PM	H2PEM-PMPLUS			
24 Month Maint Kit (Included in 24 Month PM)	MKH2PEM-24M			
Includes deionizer cartridge, water filter, 3 environmental filters, float, water pump, dessicant cartridge, and service reset dongle				
Desiccant Cartridge (included in 24 Month MK and Service PM)*	MKH2PEM-D			

*Change at least every 24 months. More frequent changes required dependent on usage.
 Note: Service PM includes technician visit, maintenance kits are parts only

H2PEM SPECIFICATIONS

HYDROGEN PURITY	POWER
99.99999+%	100 – 230 VAC
OUTLET PORT	DIMENSIONS
1/8" compression	17.1" x 13.5" x 18"
DELIVERY PRESSURE	SHIPPING WEIGHT
5 – 100 PSI ± 0.5 PSI	59 lb

Parker Ultra High Purity Hydrogen Generators for Fuel and Carrier Gas

- ➔ Cascading feature connects up to 32 hydrogen generators together to supply a large number of instruments
- ➔ Proton Exchange Membrane (PEM) cell eliminates the need for liquid electrolytes
- ➔ Maintenance-free palladium purifier removes oxygen to <0.01 ppm and moisture to <1.0 ppm
- ➔ Based on cylinder gas savings, hydrogen generator pays for itself in only one year



3 Year Cell Warranty

PARKER H2PEMPD SPECIFICATIONS

HYDROGEN PURITY	OXYGEN CONTENT	WATER CONTENT	POWER
99.99999+%	< 0.01 ppm	<1 ppm	100 – 230 VAC, 50/60 Hz
MAX OUTLET PRESSURE	OUTLET CONNECTION	DIMENSIONS	SHIPPING WEIGHT
100 or 175 PSI	1/4" compression	17.1" x 13.5" x 21"	60 lbs

TECH TIP

Delivery pressure of up to 175 PSI; ideal for fast GC applications.

PARKER H2PEMPD ORDERING INFORMATION

PART NO (Max Outlet Pressure to 100 PSI)	H2PEMPD-510-100	H2PEMPD-650-100	H2PEMPD-850-100	H2PEMPD-1100-100	H2PEMPD-1300-100
PART NO (Max Outlet Pressure to 175 PSI)	H2PEMPD-510-175	H2PEMPD-650-175	H2PEMPD-850-175	H2PEMPD-1100-175	H2PEMPD-1300-175
Flow Rate (cc/min)	510 cc/min	650 cc/min	850 cc/min	1100 cc/min	1300 cc/min
6 Month Service PM	H2PEMPD-PM				
6 Month Maint Kit (included in 6 Month PM)	MKH2PEMPD-6M				
Includes deionizer cartridge and water filter					
24 Month Service PM	H2PEMPD-PMPLUS				
24 Month Maint Kit (included in 24 Month PM)	MKH2PEMPD-24M				
Includes 6 mo contents, 2 enviro filters, tube clamp, water pump and 2 fan guards					

Certified for laboratory use by CSA, IEC 1010, and CE Mark

Note: Service PM includes technician visit, maintenance kits are parts only



Authorized Distributor

Parker LC/MS NitroFlow Self Contained Membrane Nitrogen Generators

- ➔ Nearly silent operation; operates at less than 49 dB(a)
- ➔ Includes state-of-the-art, oil-less compressors
- ➔ Complete “Plug and Play” system recommended by all major LC/MS manufacturers
- ➔ Produces a continuous supply of nitrogen for all LC/MS applications
- ➔ Phthalate-free, no organic vapors

PARKER NITROFLOW LAB SPECIFICATIONS

PURITY	HYDROCARBON FREE	PHTHALATE FREE	FLOW RATES
99.5%	Yes	Yes	UP TO 32 LPM
DELIVERY PRESSURE	OUTLET CONNECTION	AMBIENT TEMP	ELECTRICAL
8 bar	1/4"	10 - 35 °C	230 VAC - 50 Hz
POWER CONSUMPTION	NOISE LEVEL	DIMENSIONS	WEIGHT
1,400 Watts	<58 dB (A)	27.6" x 12.2" x 35.5"	93 Kg

**Optional 6 and 8 mm push fit connectors included*



PARKER NITROFLOW LAB ORDERING INFORMATION

PART NO	NITROFLOWLAB
12 Month Service PM	NITROFLOW-PM
12 Month Maint Kit (included in 12 month PM) Includes large compressor and carbon absorber	159.003367, 159.003754
36 Month Service PM	NITROFLOW-PMPLUS
36 Month Maint Kit (included in 36 month PM) Includes 12 month contents, oxygen sensor, and carbon filter	159.003367, 159.003754, 159.002284, 159.003368

2 Year Compressor Warranty

PARKER NITROFLOW60/NITROFLOW60D (WITH DRYER) SPECIFICATIONS

NITROGEN	HYDROCARBON	PHTHALATE FREE	ATMOSPHERIC DEW POINT
Up to 60 LPM	Yes	Yes	-58 °F
OUTLET PORT	MAX OUTLET PRESSURE	MIN/MAX AMBIENT TEMP	DIMENSIONS
Female 1/4" NPT	100 PSI	50 °F/95 °F	43" x 21" x 34"
SHIPPING WEIGHT	DRY AIR FLOW	DRY AIR DEW POINT	POWER
643 lbs	5 SLPM (60D only)	-40 °F (-40 °C) (60D only)	195-254 VAC, 60 Hz, 1 Phase, 14A, 230 VAC, 50 Hz, 1 Phase, 13A

PARKER NITROFLOW LAB ORDERING INFORMATION

PART NO	NITROFLOW/NITROFLOW60D (with Dryer)
12 Month Service PM	NITROFLOW60-PM
12 Month Maint Kit (included in 12 month PM) Includes compressor and generator maint	MKNITROFLOW60-1, MKNITROFLOW60-5
36 Month Service PM	NITROFLOW60-PMPLUS
36 Month Maint Kit (included in 36 month PM) Includes 12 month contents and compressor head	MKNITROFLOW60-2, MKNITROFLOW60-3, MKNITROFLOW60-5

Note: Service PM includes technician visit, maintenance kits are parts only





Parker Membrane Nitrogen Generators

- Recommended and used by all major LC/MS manufacturers
- Transforms lab-provided compressed air into 95%-99.5% purity nitrogen on demand
- Requires no electricity
- Compact units conserve laboratory floor space
- Unlike PSA technology, membrane will not suppress corona needle discharge
- Pthalate-free, no organic vapors



The purity level of the nitrogen stream is defined by the user, for the application, and may range from 95% to 99.5%.

PARKER MEMBRANE NITROGEN SPECIFICATIONS

SUSPENDED LIQUIDS	PARTICLES > 0.01 µm	ATMOSPHERIC DEW POINT	NITROGEN PURITY
None	None	95.0% – 99.5%	95.0% – 99.5%
PHthalate FREE	HYDROCARBON-FREE	MAX INLET AIR TEMP	AMBIENT TEMP
Yes	Yes	110 °F	68 – 72 °F
COMMERCIALY STERILE	MIN/MAX OPERATING PRESSURE	MAX PRESS DROP @99% N2 PURITY, 125 PSI	POWER (ANA MODELS ONLY)
Yes	60/145 PSI	10 PSI	120 VAC, 60 Hz, 25W

PARKER MEMBRANE NITROGEN ORDERING INFORMATION

PART NO	N2-04	N2-14	N2-22	N2-35	N2-45	N2-80	N2-135
N2 Flow Rate @ 100 PSI 99%	4 LPM	13 LPM	20 LPM	30 LPM	53 LPM	79 LPM	106 LPM
N2 Flow Rate @ 90 PSI 99%	4 LPM	11 LPM	18 LPM	27 LPM	44 LPM	66 LPM	89 LPM
N2 Flow Rate @ 60 PSI 99%	3 LPM	10 LPM	15 LPM	23 LPM	35 LPM	53 LPM	71 LPM
Shipping Weight	42.5 lbs	80 lbs	80 lbs	90 lbs	250 lbs	250 lbs	250 lbs
Dimensions	16" x 11" x 13"	52" x 18" x 16"	52" x 18" x 16"	52" x 18" x 16"	67" x 24" x 20"	67" x 24" x 20"	67" x 24" x 20"
Ports	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT	1/2" NPT	1/2" NPT	1/2" NPT
6 Month Service PM	—	N2-14-PM	N2-22-PM	N2-35-PM	N2-45-PM	N2-80-PM	N2-135-PM
6 Month Maint Kit	—	MK7572C			MKN2-200		
6 Month Maint Kit Contents	—	2 each: 100-12-DX filter, 10-12-BX filter, GS100-12-95 membrane filter element, 75620 carbon module			1 each: 100-18-DX Filter, 100-18-BX filter, GS100-25-95 Final membrane filter, B04-0602 replacement carbon tower		
12 Month Service PM	N2-04-PM	—					—
12 Month Maint Kit Includes filter kit	MK7840	—					—

No electricity required

Flow rate is dependent on incoming air pressure and the purity level of the nitrogen stream selected.

Note: Service PM includes technician visit, maintenance kits are parts only



Authorized Distributor



Parker Ultra High Purity Nitrogen Generators

- ➔ Produce a continuous supply of high purity nitrogen gas from existing compressed air
- ➔ Eliminate the need for costly dangerous, inconvenient nitrogen cylinders
- ➔ Compact design frees up valuable laboratory floor space
- ➔ Offers long term cost stability—uncontrollable vendor price increases, contract negotiations, long term commitments and tank rentals are no longer a concern
- ➔ Ideal for carrier gas applications



PARKER UHPN2-1100 SPECIFICATIONS			
NITROGEN PURITY	CO CONCENTRATION	CO ₂ CONCENTRATION	O ₂ CONCENTRATION
99.9999%	< 1 ppm	< 1 ppm	< 1 ppm
H ₂ O CONCENTRATION	HYDROCARBON CONCENTRATION	ARGON CONCENTRATION	MIN/MAX INLET PRESSURE
< 1 ppm	< 0.1 ppm	0.9%	60 PSI/125 PSI
REC. INLET TEMP	AMBIENT OPERATING TEMP	MAX AIR CONSUMPTION	INLET CONNECTION
78 °F (25 °C)	60 °F – 100 °F (16 °C – 38 °C)	42 LPM (1.5 scfm)	1/4" NPT (female)
OUTLET CONNECTION	POWER	DIMENSIONS	SHIPPING WEIGHT
1/8" compression	120 VAC/60 Hz	12" x 16" x 35"	110 lbs (50 kg)

INLET AIR PRESSURE (PSI)	MAX OUTLET FLOW (cc/min)	MAX OUTLET PRESSURE (PSI)
125	1100	85
110	1000	75
100	900	65
90	800	60
80	700	50
70	600	45
60	500	35

PARKER ULTRA HIGH PURITY NITROGEN GENERATORS	
PART NO	UHPN2-1100
12 Month Service PM	UHPN2-1100-PM
12 Month Maint Kit (included in service PM) Includes filters, seals, and drains	MK7694
36 Month Service PM	UHPN2-1100-PMPLUS
36 Month Maint Kit (included in service PM) Includes 12 month contents and catalyst	MK7694 + 76133

OBSOLETE PART NUMBERS (MAINTENANCE)				
GENERATOR PN	SERVICE PM	MAINT KIT	CONTENTS	SCHEDULE
HPN2-1100 (76-92)	HPN2-1100-PM	MK7692		12 month
(76-92)	76-92-PM	MK7692	filters	12 month
(76-94)	76-94-PM	MK7694	filters	12 month
(76-94)	76-94-PMPLUS	76133	w/ catalyst	36 month
76-96	76-96-PM	MKHPN22000,	filters, seals, & drains	12 month
(HPN2-2000)	HPN2-2000-PM	MKHPN22000	filters, seals, & drains	12 month

(part numbers in parenthesis are models that have been replaced by current generators)
 Note: Service PM includes technician visit, maintenance kits are parts only

TECH TIP | Parker Extended Support Programs

Parker plans range from the standard Depot class of support to the exclusive Express class of support. Both types of plans are convenient and are designed to match your needs and budget. Parker Extended Support Plans are smart to select when you depend upon high performance analytical equipment. Our exclusive Express support program offers the piece-of-mind of a new or like new replacement generator arriving at your door the very next business morning.

PARKER EXTENDED SUPPORT PROGRAMS		
	EXPRESS (EN2)	DEPOT (DN2)
Next day delivery of new or like new temporary replacement unit	●	N/A
Extends warranty coverage to 24 months	●	●
Covers replacement parts for repair	●	●
Covers labor charges for repair	●	●
Covers packaging material for repair	●	●
Covers freight charges for repair	●	●



NEW! Parker Align Multi-Gas Generator

- Lab-grade nitrogen, dry air and zero air
- Internal compressor produces gasses
- 1/4" Outlet Connections
- Fits easily under benches
- Whisper quiet operation
- Most energy efficient product available
- Easy access to service components

NEW!
Breakthrough Design
Offers Lowest
Operating Costs



PARKER ALIGN MULTI-GAS GENERATOR

NITROGEN PURITY	NITROGEN MAX FLOW/PRESSURE	NITROGEN GAS ORGANICS
up to 99% N2 with respect to O2	19 SLPM/80 psig	Elimination of up to 99.999% organics
AIR PURITY	AIR MAX FLOW/PRESSURE	
<0.1 ppm total hydrocarbons/ -35°F atm dew point	25 SLPM/110 psig	



PARKER ALIGN TRI-GAS GENERATOR FOR LC-MS

PART NO	ALIGN-MG-NA
12 Month Maint Kit Includes V-belt, carbon tower, BX-filter element, DX-filter element, water separator, intake filter, tip seals, pipe sleeve, drain silencer, particulate filter, eco drain kit	MKALIGN-MG-1
48 Month Maint Kit Includes V-belt, carbon tower, BX-filter element, DX-filter element, water separator, intake filter, drain silencer, particulate filter, eco drain kit, compressor	MKALIGN-MG-2

Parker Laboratory Membrane Air Dryers

- Low dewpoint instrument air—prevents analytical instrument contamination
- Dry air for hazardous areas
- No refrigerants or freons—environmentally sound
- Explosion proof, no electricity required, no moving parts/motors



PARKER MEMBRANE AIR DRYER SPECIFICATIONS

MIN/MAX INLET AIR TEMP	RECOMMENDED OPERATING TEMP RANGE	MIN/MAX INLET PRESSURE	MAX PRESSURE DROP
-40 °F/140 °F	60 °F – 100 °F	60 PSI/150 PSI	< 4 PSI
WALL MOUNTABLE	INLET/OUTLET PORT SIZE	SHIPPING WEIGHT	DIMENSIONS
Yes	64-01, 64-02: 1/4" NPT (female) 64-10: 1/2" NPT (female)	64-01: 9 lbs (4 kg) 64-02: 10 lbs (5 kg) 64-10: 18 lbs (9 kg)	64-01: 6" x 22" x 5" 64-02: 6" x 23" x 5" 64-10: 6" x 37" x 5"

PARKER MEMBRANE AIR DRYERS

MAX FLOW RATE AT -40 °F DEWPOINT	2 LPM	57 LPM	283 LPM
MAX FLOW RATE AT 32 °F DEWPOINT	71 LPM	142 LPM	708 LPM
PART NO	64-01	64-02	64-10
ANNUAL MAINTENANCE KIT	MK7601	MK7601	MK7610



Authorized Distributor

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