ELSD Nitrogen Generator

- Simplifies ELSD operation
- Produces a continuous supply of high purity nitrogen from compressed air
- Replaces inconvenient nitrogen cylinders
- Requires no electricity

The ELSD Nitrogen Generator has a small, compact footprint that fits easily on the lab bench next to your ELSD or mounts on the wall nearby.

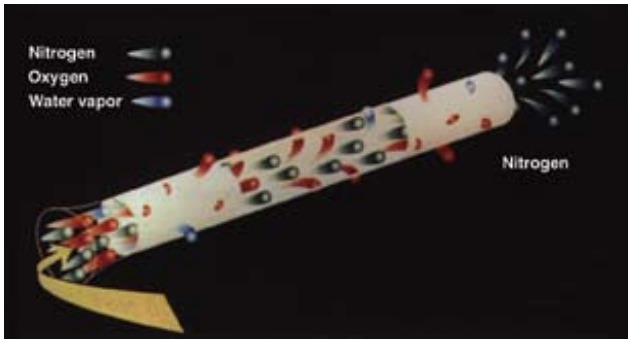
Increase productivity, reduce operating costs, and improve lab safety by eliminating nitrogen cylinders. Forget about the need to change the nitrogen cylinder or wondering whether there is enough nitrogen left to finish the run.

The ELSD Nitrogen Generator requires no electricity and has no moving parts. Nitrogen is generated using a proprietary membrane separation technology. Simply connect the generator to your lab's existing compressed air supply or suitable air compressor. The generator separates air into its component gases and only nitrogen flows through to the ELSD.

The ELSD Nitrogen Generator produces a continuous, on demand supply of pure nitrogen at flow rates up to 4L/min. Two ELSDs may be used with one generator as long as your total gas flow rate is less than 4L/min.

more info

For information on air compressors, see page 211.



Water vapor and oxygen permeate through the wall of the membrane quickly. Only nitrogen flows through the fiber bores to the ELSD.

Nitrogen Generator Specifications	
Nitrogen Purity:	99%
Nitrogen Flow:	4L/min
Suspended Liquids:	None
Particles:	<0.01µm
Min/Max Operating Pressure:	60/125psig
Dimension:	16.1" H x 10.7" W x 13.4" D (40.9cm H x 27.2cm W x 34.0cm D)
Weight:	42.5lb (19.3kg)
Compressed Air Requirements:	
Purity:	Free of water, compressor oil (0.01mg/m^3), hydrocarbons, and particulates (<0.1µm)
Temperature:	60°F (15°C)–110°F (43°C)
Compressor Outlet Pressure:	90–145psig
Compressed Air Flow:	43L/min minimum

ELSD Nitrogen Generator

Description	Part No.
ELSD Nitrogen Generator	**600150**
Replacement Parts	
50ft 1/4" o.d. PTFE Tubing	**3136**
1/4" Brass Nuts, 10/pk	**14059**
1/4" Brass Ferrules, 10/pk	**14062**
Plug Valve	**12128**
1/4"—1/4" MPT Brass Male Connection	**11639**
1/8"—1/4" MPT Brass Male Connection	**11635**
Accessories	
Single-Stage Pressure Regulator, 0–200psig	**81892**
Maintenance	
Maintenance Kit	**600151**
Air Compressor with Dryer Model OF302-25BD2	**89239**

LC/MS Nitrogen Generators

High Purity Nitrogen from Parker and Domnick Hunter

- Choose from membrane and PSA technologies
- Stand-alone units or models with built-in compressor
- Wide range of flows to meet your needs

LC/MS instrumentation uses nitrogen as purge gas in its nebulizer, and has special nitrogen purity requirements. Parker Balston® nitrogen generators use membrane technology, while Domnick Hunter uses PSA (pressure swing adsorption). Membrane units generally offer quieter operation, while PSA units require lower air flows.

Nitrogen generators used for LC/MS are either fixed or variable purity units. Variable purity units have different nitrogen purities that are dependent on the inlet pressure, outlet pressure, and flow. Many of the variable purity units have available built-in oxygen analyzers to monitor the purity of the gas being provided.

Parker Balston® NitroFlow Lab

Parker Balston® N2 Series

Domnick Hunter® LC/MS30

	Parker Balston					Domnick Hunter	
Model	**NitroFlow Lab**	**N2-14**	**N2-22**	**N2-35**	**N2-45**	**LCMS30-1**	**LCMS30-0**
Flow (L/min)	30	14	22	35	45	30	30
Air In (L/min)	Built-in Compressor	73	113	171	225	Built-in Compressor	130
Inlet Pressure (PSIG)	N/A	60	60	60	60	N/A	130.5
Outlet Pressure (PSIG)	100	145	145	145	145	102	102
Nitrogen Purity	Up to 99.5%	99%	99%	99%	99%	98%	99%
Method	Membrane	Membrane	Membrane	Membrane	Membrane	PSA	PSA
Dimensions (H x W x D)	31" x 18" x 32" 76cm x 46cm x 81cm	51.5" x 18" x 16.2" 130.8cm x 45.7cm x 41.1cm		67" x 24" x 20" 140cm x 61cm x 50cm		20" x 28" x 32.5" 51cm x 70.5cm x 82.6cm	20" x 28" x 30" 51cm x 70.5cm x 76cm
Weight	285lb (130kg)	75lb (34kg)		250lb (114kg)		284lb (129kg)	298lb (135kg)
110V Part Numbers							
without O_2 analyzer	**80552**	**80163**	**80293**	**8618464**	**80308**	**8618461**	**8618463**
with O_2 analyzer	**—**	**80165**	**80297**	**8618466**	**80311**	**—**	**—**
220V Part Numbers							
without O_2 analyzer	**80593**	**80169**	**80295**	**8618465**	**80309**	**8618462**	**8618460**
with O_2 analyzer	**—**	**80171**	**80302**	**8618467**	**80312**	**—**	**—**

Hydrogen Generators for GC Applications

High-Purity Hydrogen from Parker Balston® and Domnick Hunter®

- Provide a safe, reliable source of hydrogen with purity to 99.99999+%
- Eliminate the cost and inconvenience of dealing with hydrogen and helium cylinders
- Promote compliance with OSHA and NPFA guidelines for indoor hydrogen use
- Includes a wide range of flows to meet your needs

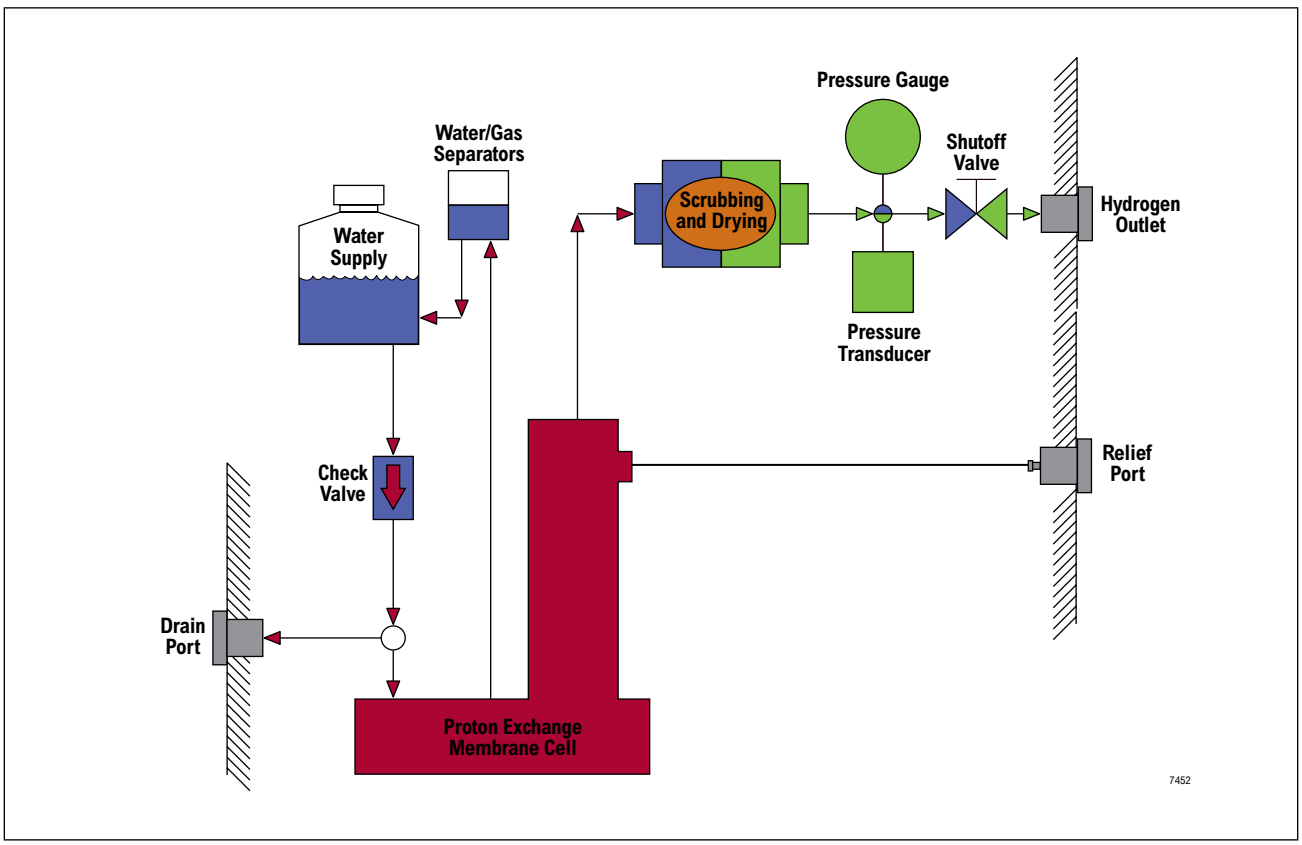
Parker Balston® and Domnick Hunter® are now one company offering exceptional gas generation technologies from a single source. Both brands offer different technologies and several flow rates to accommodate either single or multiple GC applications.

GC instrumentation uses hydrogen as either a fuel gas (FID, FPD, and NPD) or carrier gas. Each application requires specific and unique gas purity. Parker Balston® offers both a desiccant cartridge caustic-free system for fuel applications and a palladium-based carrier gas range providing the purest hydrogen commercially available. Domnick Hunter® offers a caustic free, carrier grade generator with a durable, built in micro-dryer that eliminates the need for regular desiccant cartridge replacement.

Parker Balston® Hydrogen Generator 7436

Domnick Hunter® Hydrogen Generator 7396

Parker Balston® Hydrogen Generator Technology



Hydrogen Generators for GC Applications

Hydrogen Generators Specifications									
	Parker Balston						Domnick Hunter		
Model	H2PEM-100	H2PEM-165	H2PEM-260	H2PEM-510	H2-150	H2-300	20H-MD	40H-MD	60H-MD
Flow (cc/min):	100	165	260	510	150	300	160	250	500
Use:	Fuel Gas				Fuel and Carrier		Fuel and Carrier		
Max. Number of FIDs:	2	4	6	12	3	6	4	6	12
Max. Number of Injectors/FIDs:	N/A				1	2	1	2	4
Purity:	99.9995%				99.99999%		99.9999%		
Water Quality:	DI Water				NaOH Solution		DI Water		
Purifier Type:	Dessicant				Palladium		Dessicant		
Regenerative Purifier:	No				No		Yes		
Maximum Pressure (psig):	100				60		100		
Dimensions (h x w x d):	17.1" x 13.5" x 17.9" (43.5cm x 34.2cm x 45.6cm)				22" x 12" x 13" (58cm x 30cm x 33cm)		18" x 13.5" x 17.2" (45.6cm x 13.5cm x 43.7cm)		
Weight:	40lb (18kg)				58lb (26kg)		62lb (28kg)		

Hydrogen Generators

Description	Part No.
Parker Balston®	
Parker Balston® H2PEM-100, 110/220V	**8619101**
Parker Balston® H2PEM-165, 110/220V	**8619102**
Parker Balston® H2PEM-260, 110/220V	**8619103**
Parker Balston® H2PEM-510, 110/220V	**8619104**
Parker Balston® H2-150, 110V	**80109**
Parker Balston® H2-150, 220V	**80113**
Parker Balston® H2-300, 110V	**80112**
Parker Balston® H2-300, 220V	**80115**
Domnick Hunter®	
Domnick Hunter® 20H-MD, 110/220V	**8618711**
Domnick Hunter® 40H-MD, 110/220V	**8618712**
Domnick Hunter® 60H-MD, 110/220V	**8618713**

Parker HydroGen Mate® DI Water System

Economically Provide DI Water to Your Hydrogen Generator

- Removes organics, phosphates, chlorine, and most ionizable constituents
- Quick and easy installation
- Easy-fill dispensing nozzle
- No electrical requirements

The Parker HydroGen Mate® DI Water System provides high purity deionized water to all types of Parker hydrogen generators. The system is ready to install and includes prefiltration, two DI resin exchange cartridges, dispensing nozzle, and a final filter.

7437

Parker HydroGen Mate® DI Water System

Description	Part No.
Complete DI Water System	**8619043**
Maintenance Kit*	**8619044**

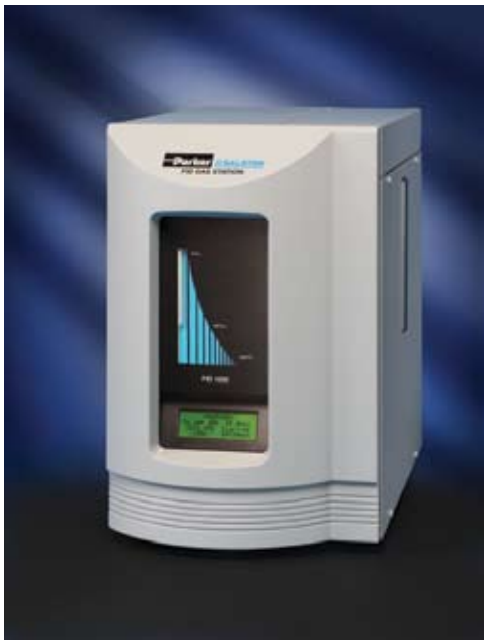
*Includes two replacement cartridges and one replacement final filter.

Parker Balston® FID Gas Station

Hydrogen and Zero Air from a Single Generator

- Safer and more convenient than gas cylinders
- Save bench space with a single unit
- Minimal operator attention required
- Quiet operation

The Parker Balston® FID Gas Station combines Parker's zero air and hydrogen generation technologies into a single unit, eliminating the inconveniences and cost of hydrogen and gas cylinders. The Model FID-1000 gas station will supply 90cc/min hydrogen and 1000cc/min of zero grade air and can supply fuel gas for two flame ionization detectors. With a 250cc/min hydrogen and 2500cc/min zero air generating capacity, the FID-2500 gas station can supply gases for up to six flame ionization detectors.



6515

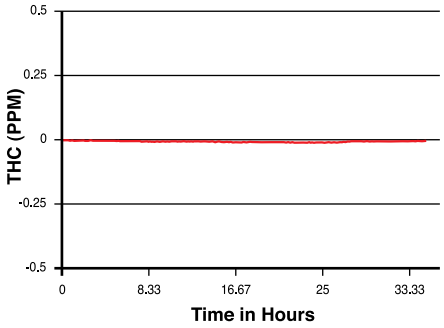
Hydrogen Generation

Hydrogen gas is produced from deionized water using a Proton exchange membrane cell. The hydrogen supplied is 99.9995% pure with pressures up to 60psig.

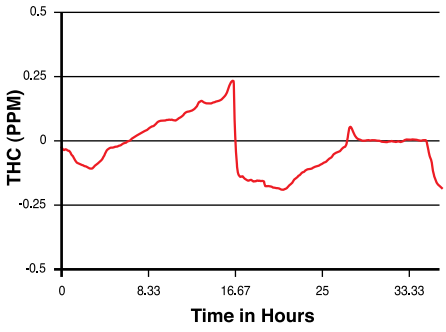
Zero Air Generation

The FID Gas station improves FID baseline stability by providing zero grade air from an on-site compressed air source. The FID-1000 produces zero air containing <0.1ppm hydrocarbons (measured as methane), while the FID-2500 produces zero air with <0.05ppm hydrocarbon purity.

Parker Balston® Zero Air Generator



Bottled Air



FID Gas Station Specifications

Model	Hydrogen Flow	Hydrogen Purity	Hydrogen Pressure	Zero Air Flow	Zero Air Purity	Zero Air Pressure	Number of FIDs	Dimensions (h x w x d)	Weight
FID-1000	90	99.9995%	60psig	1000cc/min	<0.1ppm	40–125psig	2	16.5" x 10.5" x 17" (42cm x 27cm x 43cm)	53lb (24kg)
FID-2500	250			2500cc/min	<0.05ppm		6		

FID Gas Stations

Description	110V Part No.	220V Part No.
FID-1000 Gas Station	**97128**	**97185**
FID-2500 Gas Station	**97211**	**97212**

FID-1000 and FID-2500 Accessories

Description	Part No.
Desiccant Cartridge	**90723**
Deionizer Resin Bags, 2pk	**1647728**
In-Line Filter (Zero Air)	**1647729**
Maintenance Kit	**1647731**
Inlet/Outlet Filters Zero Air, 1 ea	**1647732**

Zero Air Generators

Improve your Productivity by Using Air Generators Instead of Cylinders

- Replace bulky cylinders that need frequent changing
- Consistently high-purity for high-quality GC results

Gas Chromatography requires zero air or air <0.1ppm hydrocarbons and methane. Higher levels of methane and other hydrocarbons can cause unstable baselines. Parker and Domnick Hunter® offer high-quality zero air generators.

6097

Parker ChromGas® Zero Air Generator

7438

Parker Balston® Zero Air Generator

7401

Domnick Hunter® Zero Air Generator

Zero Air Generator Specifications

Model	Maximum Flow Rate (L/min)	Number of FIDs	Outlet Hydrocarbon Concentration*	Inlet Air Pressure	Dimensions (h x w x d)	Weight
Parker ChromGas®						
1000	1	3	<0.1ppm	2–125psig	5.8" x 9.8" x 12" (14.6cm x 24.8m x 30.5cm)	11lb (5kg)
3500	3.5	11			6.8" x 12" x 15" (17cm x 30.5cm x 38 cm)	20lb (9kg)
Parker Balston®						
75-83	1	3	<0.1ppm	40–125psig	10" x 12" x 3" (25cm x 30cm x 8 cm)	7lb (3kg)
HPZA-3500	3.5	11	<0.05ppm		11" x 16" x 13" (27cm x 42cm x 34 cm)	41lb (19kg)
HPZA-7000	7	23				
HPZA-1800	18	60				
HPZA-30000	30	100	<0.1ppm			
Domnick Hunter®						
UHP-10ZA	1	3	<0.1ppm	45–145psig	13.5" x 13" x 16" (32cm x 33cm x 40 cm)	21lb (9.5kg)
UHP-35ZA	3.5	11				

*As methane.

Zero Air Generators

Model	110V Part No.	220V Part No.
Parker ChromGas®		
1000	**91454**	**91002**
3500	**92501**	**92503**
Parker Balston®		
75-83	**80142**	**80152**
HPZA-3500	**80144**	**80154**
HPZA-7000	**80146**	**80156**
HPZA-1800	**80148**	**80158**
HPZA-30000	**80140**	**80150**
Domnick Hunter®		
UHP-10ZA	**500936**	**500937**
UHP-35ZA	**500938**	**500939**

Parker ChromGas® Zero Air Replacement Filters

Model	Part No.
Serial No. <407841	
Model 1000 Inlet	**92520**
Model 1000 Outlet	**92530**
Model 2500 Inlet	**92531**
Model 2500 Outlet	**92532**
Model 3500 Inlet	**92509**
Model 3500 Outlet	**92530**
Serial No. >407840, ≤ZA10000036, ≤ZA35000033	
Model 1000 Inlet	**92505**
Model 1000 Outlet	**92507**
Model 3500 Inlet	**92508**
Model 3500 Outlet	**92509**
Serial No. >ZA10000036	
Model 1000 Inlet and Outlet	**92533**
Serial No. >ZA35000033	
Model 3500 Inlet and Outlet	**92533**

UHP Nitrogen Generators

Ideal for GC and for TOC

Gas Chromatography applications require ultra high purity nitrogen. With GC, nitrogen may be a carrier gas or make-up gas but regardless it needs low ppm oxygen, carbon dioxide, carbon monoxide, and hydrocarbon. These low levels of impurities are needed to protect the column and some detectors.

Total Organic Carbon (TOC) analyzers use special purified nitrogen as a purge gas. It is important that both the air and nitrogen be hydrocarbon (including Methane), CO_2 and CO free. This allows for the best signal to noise ratio with the TOC analyzer. The TOC Nitrogen Gas Generator is zero grade (<1ppm methane) and <1ppm CO_2 and CO.

The units listed below all provide ultra high-purity nitrogen based on PSA technology. The nitrogen will contain concentrations of less than 1ppm each CO, CO_2, and <2ppm hydrocarbons. Unless indicated, methane is not removed or considered in the impurities. The units do differ in oxygen concentrations

With all nitrogen generators, there is a need to have a proper air supply. This supply can be either a house supply air source or a stand-alone air compressor. With either source, you must consider that it takes, on average, approximately five liters of air to produce one liter of nitrogen.

6130

Parker Balston® Ultra High Pure (UHP) Nitrogen Generator

5773

Domnick Hunter® High-Purity Nitrogen Generator

Parker Balston® Ultra High Pure (UHP) Nitrogen Generators Specifications

Model	Flow	Air In	Inlet Pressure	Outlet Pressure	N_2	O_2 Analyzers	H_20	Method	Weight
HPN2-1100	500–1100cc/min	42L/min	60–125psig	35–85psig	100%	<1.0ppm	<2ppm	PSA	115lb (72kg)
UHPN2-1100*	500–1100cc/min	42L/min	60–125psig	35–85psig	100%	<1.0ppm	<2ppm	PSA	115lb (72kg)
HPN2-2000	2000cc/min	42L/min	75–120psig	90psig	99.99%	<100ppm	<2ppm	PSA	115lb (72kg)

*Methane removed for TOC applications.

Domnick Hunter® High-Purity Nitrogen Generators Specifications

Model	Flow	Air In	Inlet Pressure	Outlet Pressure	N_2	O_2 Analyzers	H_20	Method	Weight
G1-110W	750cc/min	N/A†	101psig	73psig	99.999%	<10ppm	<2ppm	PSA	70lb (44kg)
G5-010W*	1000cc/min	N/A†	101psig	73psig	99.999%	<10ppm	<2ppm	PSA	100lb (62kg)
G2-010W	1500cc/min	N/A†	101psig	73psig	99.999%	<10ppm	<2ppm	PSA	154lb (96kg)
G2-110W	3000cc/min	N/A†	101psig	73psig	99.999%	<10ppm	<2ppm	PSA	154lb (96kg)

*Methane removed for TOC applications. †Built-in compressor.

related products

Looking for a nitrogen generator to use with ELSD?

See page 12.

Nitrogen Generators

Description	110V Part No.	220V Part No.
Parker Balston® Ultra High Pure (UHP) Nitrogen Generators		
HPN2-1100, 500–1100cc/min	**80167**	**80173**
UHPN2-1100*, 500–1100cc/min	**80153**	**80155**
HPN2-2000, 2000cc/min	**80210**	**80211**
Domnick Hunter® High-Purity Nitrogen Generators (built-in compressors)		
G1-110W, 750cc/min	**50223**	**50226**
G5-010W*, 1000cc/min	**500930**	**500935**
G2-010W, 1500cc/min	**50230**	**50233**
G2-110W, 3000cc/min	**50273**	**50275**

*Methane removed.

JUN-AIR® Oil-Less Air Compressors

Standard—B Series

Complete compressed air unit with a holding tank.


6705

Standard Air Compressors*

Description	Part No.
Model OF302-4B	**89299**
Model OF302-25B	**89279**
Model 2000-40B	**89319**
Model 4000-40B	**89272**

*Must specify voltage when ordering. Choose from 120V/60Hz, 240/60Hz, or 230V/50Hz. Two-year manufacturer's warranty.

Standard Plus Air Dryer—D Series

The D series is equipped with filters that have manual and automatic drains and an adsorption dryer to ensure 100% clean, dry, and oil-free air.


6704

Air Compressors with Dryer Option*

Description	Part No.
Model OF302-4BD2	**89376**
Model OF302-25BD2	**89239**
Model 2000-40BD2	**89328**
Model 4000-40BD3	**89273**

*Must specify voltage when ordering. Choose from 120V/60Hz, 240/60Hz, or 230V/50Hz. Two-year manufacturer's warranty.

Standard with Sound Cabinet—M Series

M series compressors are mounted inside a metal sound reduction cabinet. The sound cabinet also comes with vibration damping and cooling.


6706

Air Compressors with Sound Cabinet*

Description	Part No.
Model OF302-4M	**89346**
Model OF302-25M	**89347**
Model 2000-40M	**89329**
Model 4000-40M	**89274**

*Must specify voltage when ordering. Choose from 120V/60Hz, 240/60Hz, or 230V/50Hz. Two-year manufacturer's warranty.

Specifications

Compressor	Tank Size L/min	Flow at 80psig L/min	Flow at 60psig L/min	Noise db(A)	Approx. H x W x L	Weight lb (kg)
Standard						
OF302-4B	4	57	60	66	13 x 12 x 15" (33 x 30 x 38cm)	49 (31)
OF302-25B	25	57	60	66	23 x 15 x 15" (58 x 38 x 38cm)	62 (39)
2000-40B	40	120	130	72	25 x 21 x 17" (64 x 53 x 43cm)	72 (45)
4000-40B	40	250	275	75	26 x 24 x 18" (66 x 61 x 46cm)	185 (116)
w/Air Dryer						
OF302-4BD2	4	46	48	66	14 x 15 x 20" (36 x 38 x 51cm)	59 (37)
OF302-25BD2	25	46	48	48	23 x 20 x 18" (58 x 51 x 46cm)	73 (46)
2000-40BD2	40	96	104	72	25 x 20 x 23" (64 x 51 x 58cm)	73 (46)
4000-40BD3	40	200	220	75	27 x 24 x 24" (69 x 61 x 61cm)	214 (134)
w/Sound Cabinet						
OF302-4M	4	57	60	48	16 x 18 x 24" (41 x 46 x 61cm)	99 (62)
OF302-25M	25	57	60	66	34 x 18 x 26" (86 x 46 x 66cm)	172 (108)
2000-40M	40	120	130	52	34 x 25 x 26" (86 x 64 x 66cm)	245 (153)
4000-40M	40	120	130	52	34 x 25 x 26" (86 x 64 x 66cm)	245 (153)
Sound Cabinet and Air Dryer						
OF302-4MD2	4	46	48	48	16 x 18 x 28" (41 x 46 x 71cm)	115 (72)
OF302-25MD2	25	46	48	48	34 x 18 x 26" (86 x 46 x 66cm)	283 (177)
2000-40MD2	40	96	104	52	34 x 25 x 26" (86 x 64 x 66cm)	256 (160)
4000-40MD3	40	96	104	52	34 x 25 x 26" (86 x 64 x 66cm)	256 (160)

All compressors will go to 120psig maximum.

Standard Compressors Installed with Air Dryer and Sound Cabinet

The compressors with air dryers and sound cabinet have a reduced maintenance schedule due to their auto drain feature. They have additional cooling fans to reduce heat.


6707

Air Compressor with Sound Cabinet*

Description	Part No.
Model OF302-4MD2	**89349**
Model OF302-25MD2	**89350**
Model 2000-40MD2	**89331**
Model 4000-40MD3	**89276**

*Must specify voltage when ordering. Choose from 120V/60Hz, 240/60Hz, or 230V/50Hz. Two-year manufacturer's warranty.

Equipment/Compressor Cross-Reference

Equipment that Uses Compressors		
Model	**Flow**	**Compressor**
Alltech® ELSD Nitrogen Generator		
ELSD	4L/min	OF302-25BD2
Domnick Hunter® LC/MS Generators		
LCMS30-1	30L/min	2000-40B
LCMS30-0	30L/min	2000-40B
Parker Balston® LC/MS Generators		
N2-14	14-66L/min	2000-40B
N2-22	14-66L/min	2000-40B
Parker Balston® UHP Nitrogen Generators		
HPN2-1100	500-1100mL/min	1000-25B
UHPN2-1100	500-1100mL/min	2000-40B
HPN2-2000	2L/min	2000-40B
Parker ChromGas® UHP Zero Air Generators		
1000	1.0L/min	OF302-4B
3500	3.5L/min	OF302-4B
Parker Balston® Zero Air Generators		
75-83	1.0L/min	OF302-4B
HPZA-3500	3.5L/min	OF302-4B
HPZA-7000	7.0L/min	OF302-4B
HPZA-18000	18.0L/min	1000-25B
HPZA-30000	30.0L/min	1000-25B
Domnick Hunter® Zero Air Generators		
UHP-10ZA	1.0L/min	OF302-4B
UHP-35ZA	3.5L/min	OF302-4B
UHP-75ZA	7.5L/min	OF302-4B
UHP-200ZA	20.0L/min	1000-25B
UHP-350ZA	35.0L/min	1000-25B

tech tip

Choosing a tubing material

A number of options are available for packed column tubing. The most inert material is glass, which should be used for active compounds. Glass-lined tubing and AT™-Steel provide the inert surface of glass combined with the mechanical strength of a metal column.

Metal tubing provides an economical and rugged column for suitable application. Passivated nickel tubing can frequently be used with active compounds such as phenols and amines. Stainless steel tubing is recommended for hydrocarbon, fixed gas, and solvent analyses where column inertness is less of a concern.

PTFE tubing is extremely inert, but due to temperature limitations and poor column efficiency, PTFE is generally only recommended for the analysis of corrosive gases which are too reactive for glass.

related product

Stainless steel tubing

We offer a full selection of lengths, IDs, and coating types to meet all of your GC tubing needs. See pages 386, 388–389.

5096

related product

Gas purifiers and traps

A clean gas stream helps improve the quality of your GC analysis and the reliability of your results. For a full line of purifiers and traps in multiple styles, see pages 266–270 and 277–279.

4653

related product

Rotary tubing cutter

Cut metal and glass-lined tubing with no deburring or reaming. See page 391.

5110

related product

GC fittings

For a full selection of stainless steel GC fittings, reducing unions, and other connectors, see pages 282–285.

5130

related product

Gas sampling bags

We offer a broad selection of gas sampling bags in many sizes, materials, and shapes. See pages 273–275.

6648

related product

Vials

We have one of the largest selections of vials for all types of chromatography, including headspace vials, autosampler vials, and much more. See pages 348–378.

4715

High Purity Nitrogen Generators

for GC and other critical analytical applications

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

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

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

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Product Features:

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

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Product Selection

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

*Purity with respect to oxygen

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

Technical Data

Ambient Temperature Range		5 - 45°C 41 - 113°F
Inlet Air Quality†		Clean dry compressed air ISO8573-1:2001 Class 2.-.1
Supply Voltage Range		103 - 126V 60Hz 207 - 253V 50/60Hz
Port Connections	Inlet† Outlet (G1 range) Outlet (G2 range)	1/4" Compression Fitting 1/8" Compression Fitting 1/4" Compression Fitting

†Non compressor models only

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
G1 range	842	33.1	345	13.6	413	16.3	57	125.7	53	116.8
G2 range	874	34.4	345	13.6	663	26.1	90	198.4	77	169.7

Preventative Maintenance

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

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

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