

Analytical Gas Supplies Catalog

Bulletin AGS SUPCAT-8

Products For The Laboratory



***Parker** is the world's leading diversified manufacturer of motion and control technologies and systems serving many markets.*

Markets Parker serves:

- ▶ Commercial transport
- ▶ Military aircraft and missiles
- ▶ Regional transports
- ▶ General aviation
- ▶ Business aircraft
- ▶ Helicopters
- ▶ Engines
- ▶ Power plants/power generation
- ▶ Construction machinery
- ▶ Automotive
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- ▶ Transportation
- ▶ Mobile machinery
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- ▶ Industrial machinery
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- ▶ Mobile & industrial generators
- ▶ Industrial refrigeration
- ▶ Supermarket refrigeration
- ▶ Commercial refrigeration
- ▶ Residential air conditioning
- ▶ Fuel dispensing
- ▶ Chemical processing
- ▶ Telecommunications
- ▶ Information technology
- ▶ Marine
- ▶ Environmental
- ▶ Oil & gas exploration
- ▶ Process analytical applications
- ▶ Medical & bio/pharmaceutical

Marine



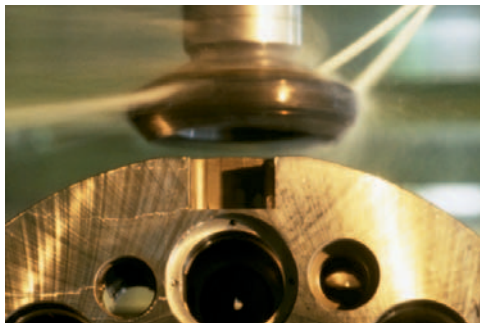
Hydraulic, fluid connector, seal, pneumatic, air conditioning and filtration components and systems.

Food & Beverage



Pneumatic, electromechanical and connector components plus filtration for automation systems.

Machine Tool



Rigid and flexible connectors and associated products for pneumatic and fluid systems. Hydraulic & pneumatic components and systems.

Aerospace



Control systems and components for aerospace and related high-technology markets. Aviation fuel filtration products.

Mobile Machinery



Hydraulic and fluid connector components and complete systems for mobile machinery.

Refrigeration & Air Conditioning



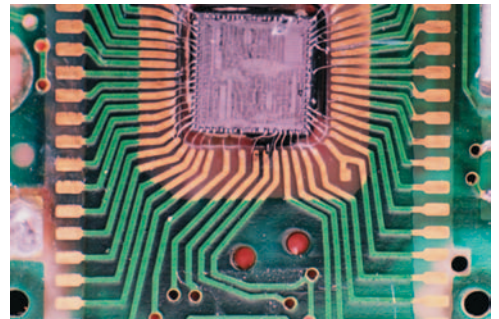
System-control and fluid-handling components and systems for refrigeration, air-conditioning and industrial equipment.

Electronics



Industrial and commercial sealing devices plus connector and related products.

Instrumentation



High-quality critical flow components for process instrumentation, ultra-high-purity, medical and analytical applications.



Parker Balston's Analytical Gas Systems business is driven by a single, critical objective: to help customers achieve consistently reliable performance in both analytical and process applications. From basic research through new product development, production, delivery, technical support, and customer service, we're managing resources to provide customers with the best possible value and performance in their operations around the world.

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applications assistance.



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Installation Schematic

TOC Gas Generator



**LXF
Compressor**



**Gate
Valve**



Regulator



**Parker Balston
TOC Gas Generator**

Automatic Gas Switch-Over System



**Parker Balston
Gas Generator**



**Automatic Gas
Switch-Over System**



**Auxiliary
Cylinder
Source**

to Instrument

Zero Air Generator



**LXF
Compressor**



**Gate
Valve**



Regulator



**Parker Balston
Zero-Air Generator**

Ultra High Purity Nitrogen Generator



**Atlas Copco
Compressor**



**Gate
Valve**



Regulator



**UHP Nitrogen
Generator**

Installation Schematic



Needle Valve



WFM Series Flowmeter



Gas Receiving Tank Model 72-007

to Instrument

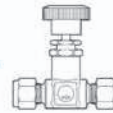
Hydrogen Generator



72-230 DI Water Purifier



Parker Balston Hydrogen Generator



Needle Valve

to Instrument



Needle Valve



WFM Series Flowmeter

to Instrument



Needle Valve



WFM Series Flowmeter

to Instrument

Basic Lab Compressor

- ▲ Ideal for Parker Balston® Gas Generators
- ▲ Pressure Switch
- ▲ Manual Drain
- ▲ Pressure Safety Valve (ASME)
- ▲ Pressure Gauge
- ▲ Unloading Capability
- ▲ Globe Valve
- ▲ 100% Oil-less Operation
- ▲ Only Minutes to Install



Gast® Model 2HAH-92T-M200X Compressor

The Gast® Compressor is for locations without a compressed air supply or low pressure supply. This quality product is in stock and available for immediate delivery along with your Parker Balston Gas Generator. This product is fully warranted and serviced exclusively by Gast® Manufacturing Corporation. It is ideal for use with smaller Parker Balston Gas Generators only.

Principal Specifications

Model 2HAH-92T-M200X	
Tank Size	2 Gallons (7.5 liters)
Output Pressure	Output Flow
@ 0 psig	1.65 CFM
@ 10 psig	1.55 CFM
@ 30 psig	1.30 CFM
@ 50 psig	1.15 CFM
@ 70 psig	1.00 CFM
@ 90 psig	.90 CFM
Noise Level @ Full Flow	65 dBa @ 3 ft.
Standard Pressure Settings - ON/OFF	70 psig / 90 psig
Pressurization Time (0 psig to set pressure)	1min. 30 sec.
Recovery Time (to set pressure)	24 sec.
Motor Specifications	115 VAC/60 Hz, 1/4 hp
Dimensions	18" w x 18" h x 5" d (46 cm x 46 cm x 13 cm)
Shipping Weight	56 lbs. (25 kg)

Ordering Information

Description	Model Number
Gast Compressor	2HAH-92T-M200X
Automatic Drain Valve	20-440

High Output Oil-Free Piston Compressor

- ▲ 100% Oil-Free Air
- ▲ Air to Air Heat Exchanger
- ▲ Integral 50 Liter Receiver Tank & Electronic Tank Drain
- ▲ Single Stage Motor
- ▲ Power Cord Included
- ▲ Quiet Operation
- ▲ 24-hour Continuous Duty Applications
- ▲ Approved for smaller Parker Hannifin Gas Generators



LXF Series Compressor

Parker Hannifin Corporation has teamed with Atlas Copco to offer the latest innovation in high output piston compression technology. The **LXF Series** compressor offers a quiet, compact, high quality source of oil-free compressed air. Each **LXF Series** compressor is totally pre-piped and wired for easy and economical installation. Along with quiet operation, each compressor is simple to use, low-vibration and requires virtually no preventative maintenance. **Full service and warranty are provided exclusively from Atlas Copco. Each compressor includes Atlas Copco “Certified Start-up Assistance Service” as standard.**

Principal Specifications

Model LXF12D-8	
Motor HP ⁽³⁾	1.29
Flow and Pressure ⁽¹⁾	up to 5 CFM and 100 psi
Sound Level (dBA) ⁽²⁾	60
Standard Voltage	115VAC, 60Hz, 20 Amp
Dimensions	24" w x 42" h x 24" d (56 cm x 86 cm x 58 cm)
Net Weight	125 lbs. (57 kg)

- 1 Unit performance measured according to Pneurop/CAGIPN2CPTC2
- 2 Maximum noise level measured at a distance of 3 ft. according to Pneurop/CAGIPN8NTC2 test code
- 3 Unit includes 3' power cord with NEMA class plug

Ordering Information

Model/Series	Use on Gas Generators
LXF12D-8	64-01, 75-45, 75-52, N2-04, HPN2-1100, UHPN2-1100, HPN2-2000, TOC-1250, HPZA-3500, HPZA-7000, HPZA-18000, HPZA-30000

Rotary Scroll & Rotary Screw Compressors

- ▲ 100% Oil Free Air
- ▲ 35°F-39°F Integral Refrigerant Air Dryer
- ▲ Air Cooled, Fully Packaged
- ▲ Single Stage Motor
- ▲ High Efficiency
- ▲ Whisper Quiet Operation
- ▲ 24-hour Continuous Duty Applications
- ▲ Approved for all Parker Hannifin Gas Generators



GA & SF Series

Parker Hannifin Corporation has teamed with Atlas Copco to offer the latest innovation in small rotary compressor technology. The SF Series compressors offer a lubrication free compression chamber that eliminates the possibility of oil carryover into the compressed air. The GA Series is oil-sealed and packaged with full-features providing oil-free output to less than 2 ppm. Each compressor configuration is totally pre-piped and wired for easy installation. Simply select your desired compressor from the table below and order from Parker Hannifin Corporation. **Full service and warranty are provided exclusively from Atlas Copco. Each compressor includes Atlas Copco “Certified Start-up Assistance Service*” as standard.**

Principal Specifications

	L330 ⁽³⁾	L189-150 ⁽⁴⁾	L189 ⁽⁴⁾	L196 ⁽⁴⁾	L199 ⁽⁵⁾
Motor HP	3	5	5	10	15
Capacity ACFM ⁽¹⁾					
100	8.5	11.9	14	23.9	61.2
150	7.2	11.9	na	23.9	50.4
Sound Level (dBA) ⁽²⁾	55	55	55	63	62
Net Weight (lbs.)	260	289	289	1,052	582

- 1 Unit performance measured according to Pneurop/CAGIPN2CPTC2
- 2 Maximum noise level measured at a distance of 3 ft. according to Pneurop/CAGIPN8NTC2 test code
- 3 Unit includes comprehensive full-featured epoxy coated external 30-gallon receiver tank
- 4 Unit includes comprehensive full-featured epoxy coated external 60-gallon receiver tank
- 5 Unit horizontally pre-mounted on steel 120-gallon receiver tank, L199 series not to be installed in laboratory

Ordering Information

Model/ Series	Dimensions	Specify Desired Voltage**	Use on Gas Generator
L330	23"W x 24"D x 34"H	200VAC, 230VAC or 460VAC	76-97, 76-98, 75-62, N2-14, N2-14ANA
L189-150	23"W x 24"D x 34"H	200VAC, 230VAC or 460VAC	N2-22, N2-22ANA
L189	23"W x 24"D x 34"H	200VAC, 230VAC or 460VAC	N2-35, N2-35ANA, N2-45, N2-45ANA (Output Limited to 100 psig)
L196	38"W x 48"D x 66"H	200VAC, 230VAC or 460VAC	N2-80, N2-80ANA (Output Limited to 100 psig)
L199	68"W x 36"D x 72"H	200VAC, 230VAC or 460VAC	N2-45, N2-45ANA, N2-80, N2-80ANA N2-135, N2-135ANA

* “Certified Start-up Assistance” excludes electrical supply work, due to local code restrictions. Electrician may be required.
 ** Contact Parker Technical Services or your local representative for exact part number suffix prior to ordering. 800-343-4048.

HydroGen Mate™ DI Water System

- ▲ Economical means of providing deionized water to hydrogen generators
- ▲ Minimal maintenance
- ▲ Visual indication for cartridge changes
- ▲ Easy fill dispensing gun
- ▲ Removal of organics, phosphates, chlorine, and essentially all ionizable constituents from water supply
- ▲ No electrical requirements



Parker Balston® Model 72-230
HydroGen Mate™ DI Water System

The Parker Balston® HydroGen Mate™ DI Water System is specifically designed to provide high purity deionized water to all models of Parker Balston hydrogen generators. The system is ready to install and is shipped complete with prefiltration, two DI resin exchange cartridges, dispensing gun, and a final filter.

The only required maintenance on the system is to change out the resin exchange cartridges and to replace the filter cartridges as needed.

Principal Specifications

Model 72-230 and 72-231** DI Water Systems

Maximum Flow Rate	1 lpm
Water Inlet	1/4" "Push to connect"
Maximum Water Supply Pressure	50 psig
Maximum Water Supply Temperature	80°F (27°C)
Physical Dimensions	12"w x 18"h x 3"d (30 cm x 46 cm x 8 cm)
Shipping Weight	12 lbs. (5.5 kg)

Ordering Information

Description	Model Number
Complete DI Water System	72-230, 72-231
Cartridge Kit*	72236

* Includes 2 each resin exchange cartridges, 1 each prefilter and 1 each final filter.

**Model 72-231 does not include dispensing gun and connects directly to generator automatic water feed port.

Gas Receiving Tanks

- ▲ External powder-coat finish eliminates rust and contamination
- ▲ Internal primer eliminates particle shedding and vapor out-gassing
- ▲ Convenient mounting brackets for floor or wall placement
- ▲ Smooths out gas pressure fluctuations
- ▲ Reduces duty cycle on compressors



Parker Balston® Models 72-007 and 72-012 Receiving Tanks

The Parker Balston® Gas Receiving tanks are highly recommended for supplying gas to pressure sensitive instrumentation, for the storage of compressed nitrogen from nitrogen generators, and for other instruments requiring an occasional high flow burst of compressed gas in excess of the normal capacity of a Parker Balston Gas Generator.

Three models of gas receivers are available. The Model 72-007 has a maximum pressure rating of 240 psig. At 240 psig, the 72-007 will hold approximately 1.7 scf (50 liters) of compressed gas. The model 72-012 has a maximum pressure rating of 125 psig. At 125 psig, the 72-012 will hold approximately 15 SCF (430 liters) of compressed gas. The IK7698C model will hold over (1,075 liters) of compressed gas.

Principal Specifications

	Model 72-007	Model 72-012	Model IK7698C
Material of Construction	3003 Aluminum	Carbon steel	Carbon steel
Capacity at Atmospheric Pressure	0.75 gallons (2.8 liters)	12 gallons (45 liters)	30 gallons (136 liters)
Max. Temperature	130°F (54°C)	130°F (54°C)	130°F (54°C)
Max. Pressure at Max. Temperature	240 psig	125 psig	125 psig
Inlet/Outlet Ports	1/8" NPT (female)	1/4" NPT (female)	3/8" Tubing Included
Dimensions	18" w x 5" h (45 cm x 12 cm)	26" w X 13" h (66 cm x 33 cm)	16" w X 40" h (41 cm x 102 cm)
Shipping Weight	4 lbs (1.8 kg)	42 lbs (19 kg)	109 lbs (49.4 kg)

Ordering Information

Description	Model Number		
Gas Receiving Tank	72-007	72-012	IK7698C

Gas Cylinder Regulators

- ▲ Unique patented compression member loads the seal to the body without requiring a threaded nozzle or additional seals to atmosphere
- ▲ Internally threadless seat design to promote long seat life
- ▲ Positive upward and downward diaphragm stops increasing cycle life by preventing over stroking of the diaphragm
- ▲ Captured bonnet allows for safety venting
- ▲ Unique carrier design disperses gas uniformly through the regulator to improve purging



Parker Balston® Models 402 and 422 Gas Cylinder Regulators

Parker Balston® has expanded its range of pressure control accessories to include high-pressure cylinder gas regulators. Use stainless steel for critical detection limits and brass for less demanding applications. These regulators provide stable flow over wide temperature ranges and are suited as primary pressure control. Select the 402 series for noncorrosive, less demanding applications or the 422 series for ultra high purity (UHP) requirements.

Principal Specifications

	Model 402	Model 422
Maximum Inlet Pressure	3000 psig (210 bar)	3000 psig (210 bar)
Temperature Range	-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Pressure Control Range	0-250 psig (0-17bar)	0-250 psig (0-17bar)
Material of Construction		
Body	Brass barstock	316L SS barstock
Bonnet	Brass barstock	Chromplated brass barstock
Seat	PTFE Teflon®	PTFE Teflon®
Filter	10 µm sintered bronze	10 µm sintered SS
Diaphragm	316L SS	316L SS
Internal Seals	PTFE Teflon®	PTFE Teflon®
Gages	2" dia. brass	2" dia. SS
Ports	1/8" Tube fitting	1/8" Tube fitting
Helium Leak Integrity	1*10 ⁻⁹ scc/sec	1*10 ⁻⁹ scc/sec
CV	0.1 (50 psig)	0.1 (50 psig)

Ordering Information

Less Demanding Applications

W-402-4332-350 Hydrogen Cylinders
 W-402-4332-580 Argon, Helium, Nitrogen Cylinders
 W-402-4332-590 All Air Cylinders

Critical Applications (UHP)

W-422-4332-350 Hydrogen Cylinders
 W-422-4332-580 Argon, Helium, Nitrogen Cylinders
 W-422-4332-590 All Air Cylinders

In-Line Gas Regulators

- ▲ Unique patented compression member loads the seal to the body without requiring a threaded nozzle or additional seals to atmosphere
- ▲ Internally threadless seat design to promote long seat life
- ▲ Positive upward and downward diaphragm stops increases cycle life by preventing over stroking of the diaphragm
- ▲ Captured bonnet allows for safety venting
- ▲ Unique carrier design disperses gas uniformly through the regulator to improve purging



Parker Balston® Models 405 and 425 In-Line Gas Regulators

Parker Balston® In-Line Gas Regulators are suitable for pressure control with all Parker Balston gas generators and as secondary control for high-pressure gas cylinders and bulk gas systems. Use stainless steel for critical detection limits and brass for less demanding applications. Parker Balston regulators provide stable flow over wide temperature ranges. Select the 405 series for noncorrosive, less demanding applications and the 425 series for ultra high purity (UHP) requirements.

Principal Specifications

	Model 405	Model 425
Maximum Inlet Pressure	3000 psig (210 bar)	3000 psig (210 bar)
Temperature Range	-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Pressure Control Range	0-250 psig (0-17 bar)	0-250 psig (0-17 bar)
Material of Construction		
Body	Brass barstock	316 SS barstock
Bonnet	Brass barstock	Chromplated brass barstock
Seat	PTFE Teflon®	PTFE Teflon®
Filter	10 µm sintered bronze	10 µm sintered SS
Diaphragm	316L SS	316SS
Internal Seals	PTFE Teflon®	PTFE Teflon®
Gages	2" dia. brass	2" dia. SS
Ports	1/4" FNPT to 1/8" Tube fitting	1/4" FNPT to 1/8" Tube fitting
Helium Leak Integrity	1*10 ⁻⁹ scc/sec	1*10 ⁻⁹ scc/sec
CV	0.1 (50 psig)	0.1 (50 psig)
Shipping Weight	2.25 lbs. (1.05 kg)	2.25 lbs. (1.05 kg)

Ordering Information

Less Demanding Applications

W-405-4032-000 Air, Argon, Helium, Hydrogen, Nitrogen

Critical Applications (UHP)

W-425-4032-000 Air, Argon, Helium, Hydrogen, Nitrogen

In-Line Gas Regulators

- ▲ **Oversized connection ports minimize pressure settings**
- ▲ **Convenient user-friendly pressure control range from 10 to 130 psig**
- ▲ **Bolt down regulator adjustment handle locks pressure settings, maximizes tampering**
- ▲ **Ideal for regulating inlet compressed air pressure to Parker Balston Gas Generators**



Parker Balston® Model 72-130-V883
In-Line Regulator

Parker Balston® High Flow Rate

In-Line Gas Regulators are suitable as primary inlet pressure control to all compressed air supplied gas generators. They are ideal for use with high-output nitrogen generators as models N2-45, N2-45ANA, N2-80, N2-80ANA, N2-135 and N2-135ANA. Parker Balston High Flow Rate In-Line Gas Regulators are not suitable for use with hydrogen generators, cylinder gases, corrosive gases, or gases that are flammable. Minimal assembly required.

Principal Specifications

Model 72-130-V883

Maximum Inlet Pressure	150 psig
Maximum Temperature	220°F (104°F)
Pressure Control Range	10-130 psig
Material of Construction	Aluminum, Brass, Buna
Ports (Inlet/Outlet)	1/2" FNPT
Flow Rate Limitation	65 SCFM

Oxygen Analyzer

- ▲ Protects instruments against undesirable oxygen concentrations
- ▲ Low maintenance
- ▲ LED display
- ▲ One year warranty
- ▲ Shipped ready to install from local stock



A Parker Balston Model 72-02730 Oxygen Analyzer

The Parker Balston 72-02730 Oxygen Analyzer is a self-contained wall-mountable or benchtop unit designed to monitor the oxygen concentration in a process stream, display the concentration in digital form, and provide appropriate alarms and controls for protecting a process against undesirable oxygen concentrations. The Parker Balston 72-02730 Oxygen Analyzer is offered as an integral accessory to Balston Nitrogen Generation Systems. The Analyzer is also designed to be used on existing house nitrogen systems. The Analyzer has all the controls necessary to assure safe and accurate monitoring of oxygen concentration in a nitrogen process stream.

Features include:

Alarm Set Points: The high and low limits of the integral alarm may each be set anywhere between .1% and 23% oxygen, depending on the process limitations and requirements.

Alarm Output: The oxygen analyzer, through the use of the alarm relay outputs, may be used to control the process stream. For example, a high or low oxygen concentration could signal a remote alarm, open a backup supply for the process stream, or close the process down for protection of downstream equipment or processes.

Easy Installation and Maintenance:

A convenient power selection switch affords quick adaptation to available power supplies of 120 VAC/60 Hz or 240 VAC/50 Hz. The Analyzer requires very little maintenance other than timely calibration and sensor replacement.

Principal Specifications

72-02730 Oxygen Analyzer

Accuracy	± 1% full scale calibrated span, after 30 min. stabilization
Sensitivity range	0 to 100% oxygen
Digital display limits	00.0 to 99.9% oxygen
Span concentration	0 to 23% oxygen
Response time	12 seconds
Min/Max Sample inlet pressure	2 psig/145 psig (0.1 barg/10 barg)
Min/Max sample flow rate range	25/850 ccm
Min/Max operating temperatures	59°F/95°F (15°C/35°C)
Alarm outputs	DPDT relay contacts 5 amp, 250 VAC rating, 1/8 HP resistive
Power requirement	120 VAC/60 Hz., 240 VAC/50 Hz.
Dimensions	11" w x 5" h x 5" d (28 cm x 13 cm x 13 cm)
Shipping Weight	6 lbs (3 kg)

Ordering Information

Description	Model Number
Oxygen Analyzer	72-02730
Galvanic Cell (sensor)	72695A

Automatic Gas Switch-Over Systems

- ▲ Metal to metal diaphragm seal assures gas purity integrity
- ▲ Capsule® seat mechanism promotes increased serviceability and long life
- ▲ One knob switches gas generator or cylinder priority
- ▲ Total user control
- ▲ Check valves at inlet gland prevent contamination and backflow



Parker Balston® Model 527 Automatic Gas Switch-Over System

Parker Balston® automatic gas switch-over systems provide primary control to switch from gas generator to cylinder or from cylinder to cylinder. Uninterrupted gas is provided regardless of source. Use stainless steel for critical applications and brass for less demanding applications. Switch-over systems provide stable flow over wide temperature ranges and are suited as a primary gas control. Select the 526 series for noncorrosive, less demanding applications, and the 527 series for ultra high purity (UHP) requirements.

Principal Specifications

	Model 526	Model 527
Maximum Inlet Pressure	3000 psig (210 bar)	3000 psig (210 bar)
Switchover Pressure	50 or 70 psig	50 or 70 psig
Temperature Range	-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Material of Construction		
Body	Brass barstock	316 SS barstock
Bonnet	Brass barstock	Chromplated brass barstock
Seat	PTFE Teflon®	PTFE Teflon®
Filter	10 µm sintered bronze	10 µm sintered SS
Diaphragm	316L SS	316L SS
Internal Seals	PTFE Teflon®	PTFE Teflon®
Gages	2" dia. brass	2" dia. SS
Ports	1/4" to CGA Pigtails	1/4" to CGA Pigtails
Helium Leak Integrity	1*10 ⁻⁸ scc/sec	1*10 ⁻⁸ scc/sec
CV	0.1 (50 psig)	0.1 (50 psig)
Shipping Weight	8.25 lbs. (3.71 kg)	8.25 lbs. (3.71 kg)

Ordering Information

Less Demanding Applications

- W-526-2532-350 Hydrogen
- W-526-2532-580 Argon, Helium, Nitrogen
- W-526-2532-590 Air, Dry Air, Hydrocarbon-Free Air, Zero Air

Critical Applications (UHP)

- W-527-2532-350 Hydrogen
- W-527-2532-580 Argon, Helium, Nitrogen
- W-527-2532-590 Air, Dry Air, Hydrocarbon-Free Air, Zero Air

Flow Controllers

- ▲ Conveniently regulates and distributes clean air output and pressure
- ▲ Easy installation and operation
- ▲ Manifold and single flow versions available
- ▲ Immediate delivery from stock



Parker Balston® Manifold Flow Controller

Parker Balston® Flow Controllers provide a convenient means for regulating and distributing the clean air output from a Parker Balston compressed Air Dryer, FT-IR Purge Gas Generator, or Self-Contained Lab Gas Generator. Two styles of flow Controllers are available: manifolded flow controllers or single flow controllers.

Manifold models 72-398, 72-400, 72-401, and 72-402 accept clean gas, at the regulated pressure, into the manifold where independently adjustable flow controls may be set to serve three separate instruments. Single Flow Models 72-428, 72-430, 72-431, and 72-432 include a pressure regulator and a single flow controller.

Each flow controller is equipped with a triple scale pressure gauge (psig, bar, kg/cm²), a pressure regulator, and a flow meter mounted on a convenient bracket for wall or panel mount installations.

Principal Specifications

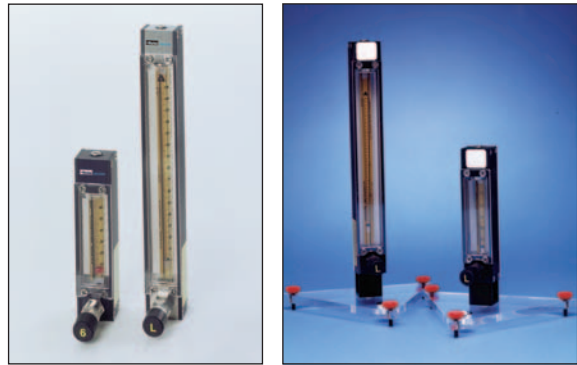
Manifold Models	Single Flow Models	
	72-398, 400, 401, 402	72-428, 430, 431, 432
Inlet Ports	1/4" NPT (female)	1/8" NPT (female)
Max. Pressure	125 psig	125 psig
Pressure Gauge Range	0-60 psig	0-100 psig
Outlet Ports	1/8" tube fitting	1/8" tube fitting
Dimensions	8" w x 7" h x 6" d (20cm x 18cm x 15cm)	4" w x 7" h x 2" h (10cm x 18cm x 5 cm)
Shipping Weight	5 lbs (2 kg)	5 lbs (2 kg)

Ordering Information

Description	Flow Range
Manifold Models	
72-398	1-5 scfh (.5-2.5 lpm)
72-400	10-100 scfh (5-50 lpm)
72-401	5-50 scfh (2.5-25 lpm)
72-402	20-200 scfh (10-100 lpm)
Single Flow Models	
72-428	1-5 scfh (.5-2.5 lpm)
72-430	10-100 scfh (5-50 lpm)
72-431	5-50 scfh (2.5-25 lpm)
72-432	20-200 scfh (10-100 lpm)

Precision Control Flow Meters

- ▲ Rib-guided metering tubes assure accurate stable readings
- ▲ Magnifier lens in front shield enhances reading resolution
- ▲ Non-rotating feature prevents turning of flow tube
- ▲ Interchangeable flow tubes provide simple upgrade for use with other applications as required
- ▲ Flow calculations and conversions eliminated by matching the bottom table



Parker Balston WFM Series Flowmeters

Parker Balston® Precision Control Flow Meters are suitable with all Parker Balston Gas Generators. These flowmeters incorporate traditional variable area flow technology and are ideal for trace low flow and high flow control requirements. Leak integrity is tested using a state-of-the-art mass spectrometer and helium. The flowmeters are constructed of rugged, inert materials. Low flow series meters include a flat surface tripod.

Principal Specifications

Maximum Inlet Pressure	200 psig (13.8 bar)
Maximum Temperature	250°F (121°C)
Material of Construction	
Float (gas specific)	Glass, Sapphire, or 316 SS
Flow Tube	Heavy walled Borosilicate glass
Side Panels	Aluminum, black anodized
Front Shields	Lexan® with magnifier lens
Back Plates	1/8" White acrylic
Calibrated Accuracy	±1% FS
Ports	1/8" convertible to 1/4" compression
Helium Leak Integrity	1 * 10 ⁻⁷ scc/sec
Repeatability	± 0.25% FS
Flat Surface Tripod	Acrylic with level adjust
Shipping Weight	5 lbs. (2kg)

Ordering Information

FT-IR Purge Gas Generators		TOC Gas Generator	
75-45NA	W-FM76807	TOC-1250	W-FM7583
75-52NA	W-FM76830	UHP Nitrogen Gas Generators	
75-62NA	W-FM7562	HPN2-1100	W-FM7694
Membrane Air Dryers @ min. flow rate		UHPN2-1100	W-FM7694
64-01	W-FM76830	HPN2-2000	W-FM7696
64-02	W-FM7562	Zero Air Gas Generators	
64-10	W-FM6410	75-83	W-FM7583
Membrane Air Dryers @ max. flow rate		HPZA-3500	W-FM76807
64-01	W-FM7562	HPZA-7000	W-FM76807
64-02	W-FM7562	HPZA-18000	W-FM76830
64-10	W-FM6410HF	HPZA-30000	W-FM76830
NMR Gas Generator			
UDA-300NA	W-FM6410		

Halogenated Hydrocarbon Scrubber

- ▲ Ideal for removing halogenated hydrocarbons from compressed air
- ▲ Extended-life adsorbent requiring minimal maintenance
- ▲ Protects equipment from chlorinated solvent vapors
- ▲ Purifies bulk inert non-corrosive gases



Parker Balston® Model 76080
Halogenated Hydrocarbon Scrubber

Parker Balston® Halogenated Hydrocarbon Scrubbers effectively remove halogenated hydrocarbons from an existing compressed air supply. The scrubber can be used with any Parker Balston Zero Air Generator or UHP Nitrogen Generator if the compressed air supply contains halogenated hydrocarbons. Halogenated hydrocarbons can corrode piping, filters, valves, and other components.

Principal Specifications

Model 76080 Halogenated Hydrocarbon Scrubber

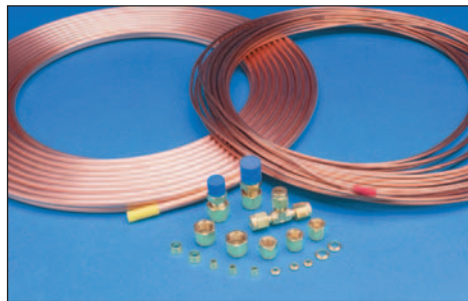
Min/Max Pressure Rating	60 psig to 125 psig (4 barg - 8.6 barg)
Inlet/Outlet Ports	1/4" NPT (female)
Change Frequency @ 17 LPM	18 Months
Dimensions	41"h x 15"w x 8"d (104 cm x 38 cm x 20 cm)
Shipping Weight	29 lbs. (13 kg)

Ordering Information

Description	Model Number
Halogenated Hydrocarbon Scrubber (New)	76080

Installation Kits

- ▲ Provides clean tubing for commissioning of new gas generators
- ▲ Eliminates the wait for materials to install new gas generators
- ▲ Logical complement to gas generator purchases



Installation Kit Contents

Each Installation Kit combines all of the basic fittings and tubing required to connect your Parker Balston® gas generator to a compressed air source (where applicable) and up to two instruments. Parker Balston Installation Kits are designed specifically for each model of gas generator. All Installation Kits use Parker fittings and refrigerant grade copper tubing. Parker fittings provide a leakproof, torque-free seal at all tubing connections, and eliminate leaks in instrumentation tubing. Additional valves, pressure regulators, scrubbers, and other vital components are available for each gas generator.

Principal Specifications

Installation Kit Part Number	Used On
IK75880	N2-45, N2-45ANA, N2-80, N2-80ANA, N2-135, N2-135ANA
IK76803	75-83NA, HPZA-3500, HPZA-7000, HPZA-18000 HPZA-30000, HPZA-30000, TOC-1250, N2-04, NitroVap
IK7694	HPN2-1100, UHPN2-1100, HPN2-2000
IK7532	H2-90NA, 9150, H2PD-150, 9200, H2PD-300, 9400, H2-500NA, H2-800NA, H2-1200NA
IK7572	N2-14, N2-14ANA, N2-22, N2-22ANA, NitroFlow-Lab, N2-35, N2-35ANA
IK7698	76-97NA, 76-98NA

Extended Support Programs

UHP Nitrogen Generators produce 99.9999% pure N₂ for GC's or ICP Spectrometers

Hydrogen Generators produce 99.99999% pure hydrogen for GC's

FT-IR Gas Generators produce dry, CO₂-free purge gas for FT-IR Spectrometers

Parker Balston Analytical Gas Generators, Filtration and Separation equipment are world renowned for their reliability, dependability, and long life. Since commercializing our first laboratory scale analytical gas generator in the 1980s, we now serve an installed customer base of over 40,000 gas generator users globally.

Our experience shows that with regularly scheduled maintenance, generators and analytical instruments continue to consistently produce precise results, and precise purity for decades.

Parker Balston is pleased to offer a variety of Extended Support Plans to assure this standard of performance is possible with your new gas generator purchase. At the fraction of the cost of a new gas generator, Parker Balston Extended Support Plans are truly affordable to purchase.

Zero Air Generators produce zero grade air for GC's

Pure Air and Nitrogen Generators produce dry, ultra pure compressed gas for laboratory instruments including LC/MS

Accessories for Gas Generators

Our plans range from the standard Depot class of support to our exclusive Express class of support. Both types of plans are convenient and are designed to match your needs and budget. Derivatives of each class are offered, which includes automatic shipment of maintenance items as required by your gas generator when needed. It's a simple reminder for periodic maintenance.

Lastly, Parker Balston 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.

Included with Extended Support Program	Express (EC2)	Express (EN2)	Depot (DC2)	Depot (DN2)
Next Day Delivery of New or Like New Temporary Replacement Unit	X	X	NA	NA
Extends Warranty Coverage to 24 Months	X	X	X	X
Covers Replacement Parts for Repair	X	X	X	X
Covers Labor Charges for Repair	X	X	X	X
Covers Packaging Materials for Repair	X	X	X	X
Covers Freight Charges for Repair	X	X	X	X
Autoshipment of Consumables (Scheduled Maintenance)	X	NA	X	NA

Benefits Summary/Overview:

- Next business morning delivery of a replacement gas generator
- Extension of standard gas generator warranty to 24 months
- Responsive turn-around time for service center repairs
- Complete coverage of freight charges, to and from service center
- Complete expense coverage regarding labor, parts, and packaging materials
- Dedicated technical support hot-line
- Automatic delivery of preventative maintenance items as required by the generator

The items described in this document are hereby offered for sale at prices to be established by Parker Hannifin Corporation, its subsidiaries and its authorized distributors. This offer and its acceptance by any customer ("Buyer") shall be governed by all of the following Terms and Conditions. Buyer's order for any item described in its document, when communicated to Parker Hannifin Corporation, its subsidiary or an authorized distributor ("Seller") verbally or in writing, shall constitute acceptance of this offer.

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2. Payment: Payment shall be made by Buyer within 30 days from the date of shipment. Amounts not timely paid shall bear interest at the maximum rate permitted by law for each month or portion thereof that the Buyer is late making payment. Any claims by Buyer for omissions or shortages in a shipment shall be waived unless Seller receives notice thereof within 30 days after Buyer's receipt of the shipment.

3. Delivery: Unless otherwise provided on the face hereof, delivery shall be made F.O.B. Seller's plant. Regardless of the method of delivery, however, risk of loss shall pass to Buyer upon Seller's delivery to a carrier. Any delivery dates shown are approximate only and Seller shall have no liability for any delays in delivery.

4. Warranty: Seller warrants that the items sold hereunder shall be free from defects in material or workmanship for a period of 12 months from date of shipment to Buyer. THIS WARRANTY COMPRISES THE SOLE AND ENTIRE WARRANTY PERTAINING TO ITEMS PROVIDED HEREUNDER. SELLER MAKES NO OTHER WARRANTY, GUARANTEE, OR REPRESENTATION OF ANY KIND WHATSOEVER. ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO, MERCHANTABILITY AND FITNESS FOR PURPOSE, WHETHER EXPRESS, IMPLIED, OR ARISING BY OPERATION OF LAW, TRADE USAGE, OR COURSE OF DEALING ARE HEREBY DISCLAIMED.

NOTWITHSTANDING THE FOREGOING, THERE ARE NO WARRANTIES WHATSOEVER ON ITEMS BUILT OR ACQUIRED WHOLLY OR PARTIALLY, TO BUYER'S DESIGNS OR SPECIFICATIONS.

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6. Changes, Reschedules and Cancellations: Buyer may request to modify the designs or specifications for the items sold hereunder as well as the quantities and delivery dates thereof, or may request to cancel all or part of this order, however, no such requested modification or cancellation shall become part of the contract between Buyer and Seller unless accepted by Seller in a written amendment to this agreement. Acceptance of any such requested modification or cancellation shall be at Seller's discretion, and shall be upon such terms and conditions as Seller may require.

7. Special Tooling: A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture items sold pursuant to this contract. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the items sold hereunder, even if such apparatus has been specially converted or adapted for such manufacture

and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

8. Buyer's Property: Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which become Buyer's property, may be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer placing an order for the items which are manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.

9. Taxes: Unless otherwise indicated on the face hereof, all prices and charges are exclusive of excise, sales, use, property, occupational or like taxes which may be imposed by any taxing authority upon the manufacture, sale or delivery of the items sold hereunder. If any such taxes must be paid by Seller or if Seller is liable for the collection of such tax, the amount thereof shall be in addition to the amounts for the items sold. Buyer agrees to pay all such taxes or to reimburse Seller therefore upon receipt of its invoice. If Buyer claims exemption from any sales, use or other tax imposed by any taxing authority, Buyer shall save Seller harmless from and against any such tax, together with any interest or penalties thereon which may be assessed if the items are held to be taxable.

10. Indemnity For Infringement of Intellectual Property Rights: Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Part 10. Seller will defend and indemnify Buyer against allegations of infringement of U.S. patents, U.S. trademarks, copyrights, trade dress and trade secrets (hereinafter 'Intellectual Property Rights'). Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on an allegation that an item sold pursuant to this contract infringes the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If an item sold hereunder is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and option, procure for Buyer the right to continue using said item, replace or modify said item so as to make it noninfringing, or offer to accept return of said item and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to items delivered hereunder for which the designs are specified in whole or part by Buyer, or infringements resulting from the modification, combination or use in a system of any item sold hereunder. The foregoing provisions of this Part 10 shall constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.

If a claim is based on information provided by Buyer or if the design for an item delivered hereunder is specified in whole or in part by Buyer, Buyer shall defend and indemnify Seller for all costs, expenses or judgments resulting from any claim that such item infringes any patent, trademark, copyright, trade dress, trade secret or any similar right.

11. Force Majeure: Seller does not assume the risk of and shall not be liable for delay or failure to perform any of Seller's obligations by reason of circumstances beyond the reasonable control of Seller (hereinafter 'Events of Force Majeure'). Events of Force Majeure shall include without limitation, accidents, acts of God, strikes or labor disputes, acts, laws, rules or regulations of any government or government agency, fires, floods, delays or failures in delivery of carriers or suppliers, shortages of materials and any other cause beyond Seller's Control.

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Parker Hannifin Corporation

About Parker Hannifin Corporation

Parker Hannifin is a leading global motion-control company dedicated to delivering premier customer service. A Fortune 500 corporation listed on the New York Stock Exchange (PH), our components and systems comprise over 1,400 product lines that control motion in some 1,000 industrial and aerospace markets. Parker is the only manufacturer to offer its customers a choice of hydraulic, pneumatic, and electromechanical motion-control solutions. Our Company has the largest distribution network in its field, with over 7,500 distributors serving nearly 400,000 customers worldwide.

Parker's Charter

To be a leading worldwide manufacturer of components and systems for the builders and users of durable goods. More specifically, we will design, market and manufacture products controlling motion, flow and pressure. We will achieve profitable growth through premier customer service.

Product Information

North American customers seeking product information for Balston products, the location of local sales offices or repair services will receive prompt attention by calling the Filtration and Separation Division at our toll-free number: 1-800-343-4048. For all other product information call 1-800-C-PARKER (1-800-272-7537).

The Aerospace Group is a leader in the development, design, manufacture and servicing of control systems and components for aerospace and related high-technology markets, while achieving growth through premier customer service.



The Climate & Industrial Controls Group designs, manufactures and markets system-control and fluid-handling components and systems to refrigeration, air-conditioning and industrial customers worldwide.



The Fluid Connectors Group designs, manufactures and markets rigid and flexible connectors, and associated products used in pneumatic and fluid systems.



The Seal Group designs, manufactures and distributes industrial and commercial sealing devices and related products by providing superior quality and total customer satisfaction.



The Hydraulics Group designs, produces and markets a full spectrum of hydraulic components and systems to builders and users of industrial and mobile machinery and equipment.



The Filtration Group designs, manufactures and markets quality filtration and clarification products, providing customers with the best value, quality, technical support, and global availability.



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The Instrumentation Group is a global leader in the design, manufacture and distribution of high-quality critical flow components for worldwide process instrumentation, ultra-high-purity, medical and analytical applications.



Filtration Group Technical Sales & Service Locations

Filtration Group North America

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