



Ultra Dry Air

Product Brochure



ENGINEERING YOUR SUCCESS.

Purity & Performance

Offering a wide range of advantages over traditional cylinder gas supply, gas generators are increasingly becoming the popular choice in many laboratories.

Consistent, reliable purity

A steady, safe supply of high-purity gases is essential to guarantee precise results in analytical techniques such as chromatography, spectroscopy, and spectrometry. Gas purity can vary significantly from cylinder to cylinder, and impurities can be introduced via pipework during a changeover. In contrast, on-site gas generators supply consistently high-purity gas, prevent variations and ensure ultra-sensitive analysis, every time.

Supported by proven, advanced technologies you can trust, Parker gas generators deliver the reliability and consistency you depend on.

A safer choice

High-pressure cylinders are inherently linked to safety issues - from the chance of injury through manual handling to the risk of gas leaks, which can make the atmosphere potentially explosive or deficient in oxygen. Parker gas generators are equipped with standard leak detection technology 'auto shut off' and integral alarm. Operating at a fraction of pressure with low volumes of stored gas, they are a safer alternative to cylinders and further reduce potential for harm.

Cost-efficient with the lowest lifetime cost

Energy-efficient technologies combined with minimal required maintenance keep operational costs down, and often payback can be realized just one year after purchase. On-demand gas generation eliminates unexpected charges, delivery costs, cylinder rental or storage fees.

Global support for your peace of mind

We know that business continuity is vital to success. That's why Parker offers a comprehensive package of expert service, care, and maintenance across our complete analytical gas systems range, worldwide. From installation to scheduled maintenance, and even emergency assistance, you can rely on Parker for total peace of mind.

Continuous supply, available on-demand

Parker gas generators are engineered to transform standard compressed air into high-quality analytical gas at safe, regulated pressures, on-demand, without operator attention. Designed for easy installation, operation, long-term performance, and permanent point-of-use installation, an on-site generator provides direct access to an unlimited supply of gas. Always at the correct pressure, flow, pressure and purity, Parker gas generators improve the stability of instruments and the accuracy of results.

Laboratory Membrane Air Dryers

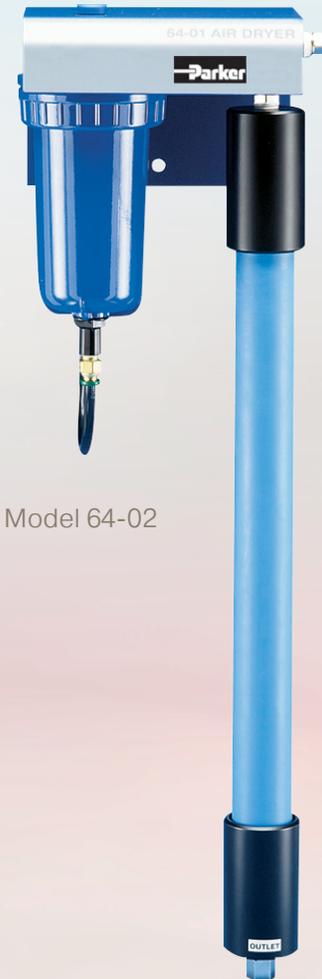
Models 64-01, 64-02, 64-10

Parker Membrane Air Dryers supply oil and particulate free dry compressed air to atmospheric dewpoints as low as -40°F (-40°C), and at flow rates of up to 25 SCFM.

- Low dewpoint instrument air - prevents analytical instrument contamination
- Dry air for hazardous areas
- No electricity required - low operating costs
- No refrigerants or freons - environmentally sound
- No moving parts or motors - silent operation
- Continuous 24/7 operation
- Little maintenance required
- Explosion proof

Parker membrane air dryers are engineered for easy installation, operation, and long term reliability. The dryers incorporate the highest efficiency membrane available, offering low cost operation and minimal maintenance.

The dryers are lightweight, compact, and can be easily installed on an existing air line. In a vertical or horizontal orientation (depending upon model), a high efficiency coalescing prefilter is installed directly upstream from the dryer module to protect the membrane from potential contamination caused by pipe scale, liquids, or other solids. These dryers require no electrical connections, making them ideal for remote and point-of-use installations or for deployment in hazardous areas.



Model 64-02

1

Coalescing Filtration: oil, water droplets, and particulate contamination removed with an efficiency of 99.99% at 0.01 micron. Water-laden air passes through membrane filter.

2

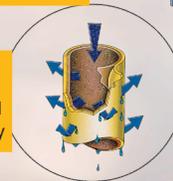
Drying: As the compressed air passes through the hollow membrane fibers, water vapor permeates through the fiber walls, and dry air exits the end of the fiber, piping to the application.

1

Phase I - Coalescing



Captive 'O' Rings
- less need for spares



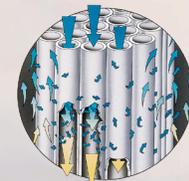
Dual layer
filter element
- long life and
high efficiency



Simple Construction -
economical consumables
and kinder to the
environment

2

Phase II - Air Drying



Hollow microfibers

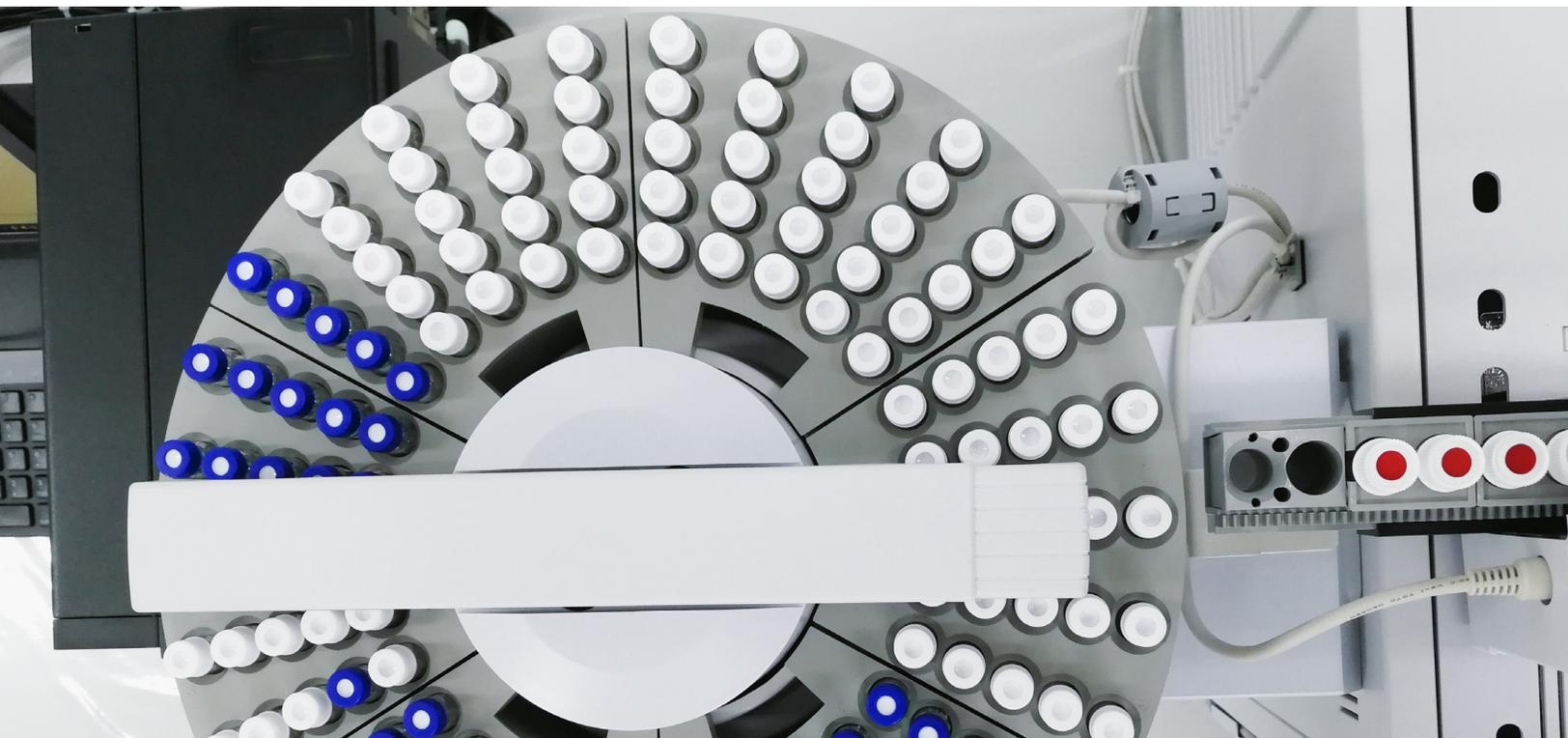
Principal Specifications

Description	64-01	64-02	64-10	
Max. Flow Rate ¹ at Dewpoints Shown	at -40°F (-40°C)	28 LPM	57 LPM	283 LPM
	at 32°F (0°C)	71 LPM	142 LPM	708 LPM
Minimum/Maximum Inlet Air Temp. ²	-40°F/140°F (-40°C/60°C)			
Recommended Operating Temperature Range	60°F-100°F (16°C-38°C)			
Minimum/Maximum Inlet Pressure	60 psig/150 psig			
Maximum Pressure Drop	<4 psig			
Wall Mountable	Yes			
Inlet/Outlet Port Size	1/4" NPT (female)	1/4" NPT (female)	1/2" NPT (female)	
Electrical Requirements	None			
Shipping Weight	9 lbs. (4kg)	10 lbs. (5 kg)	18 lbs. (9 kg)	
Dimensions	6"w x 22"h x 5"d (15x 57x 13 cm)			

1. Dewpoint specified with inlet air at 100°F (38°C) saturated at 100 psig.
2. Inlet compressed air dewpoint must not exceed the ambient air temperature

Ordering Information

Description	64-01	64-02	64-10
Annual Maintenance Kit	MK7601	MK7601	MK7610
Installation Kit	MK7601	MK7601	IK75880
Pressure Regulator	72-130-V883		
Preventive Maintenance Plan	64-01-PM	64-02-PM	64-10-PM
Extended Support with 24 Month Warranty	64-01-DN2	64-02-DN2	64-02-DN2



Ultra Dry Air Gas Generator

Model UDA-300

Model UDA-300 Compressed Air Dryer provides ultra-dry, purified compressed air to analytical instruments. The generator reduces the dewpoint to -100°F (-73°C) without operator attention.

- Supplies ultra-dry, purified compressed air to NMR Spectrometers and other analytical instruments
- Ideal gas supply for spindle and automatic sample changer
- Compact design frees up valuable floor space
- Completely automatic - plug it in and forget about it
- Simple installation & operation

Each system is delivered complete and ready for easy installation. A high efficiency prefiltration system, automatic drains, a 0.01µm final filter, a moisture indicator, and pretested controls are integral to the design of each dryer.

Designed specifically for NMR instrumentation, the generator is completely automatic and virtually maintenance free. It is ideal for injecting, spinning, and lifting operations. It is recommended by major NMR instrument manufacturers and is currently installed in several thousand locations.



Principal Specifications

Model UDA-300	
Min./Max. Inlet Air Pressure	60 psig/125 psig
Flow Rate at 60 psig	390 scfh (184 lpm)
Flow Rate at 125 psig	720 scfh (340 lpm)
Dew Point	-100°F (-73°C)
Max. Inlet Air Temperature ¹	78°F (25°C)
Inlet/Outlet Port Size	1/4" NPT (female)
Electrical Requirements	120 VAC/60 Hz, 10 Watts
Dimensions	41"h x 15"w x 8"d (104cm x 38cm x 20cm)
Shipping Weight	50 lbs (23 kg)

Outlet dewpoint will increase at higher inlet compressed air temperatures.

Ordering Information

Description	Model Number
Compressed Air Dryer	UDA-300
Inlet Pressure Regulator	72-130-V883
Annual Maintenance Kit	MK7525
Preventive Maintenance Plan	UDA-300-PM
Extended Support with 24 Month Warranty	UDA-300-DN2

for assistance, call 800-343-4048

Atomic Absorption Gas Purifier

Model 73-100

The Parker AA Gas Purifier is a wall mountable system designed to purify gases commonly used with atomic absorption spectrophotometers.

- Designed specifically for AA Instrumentation
- Protects microcomputer gas controls and burner system
- Ensures a clean, contaminant-free atomic cloud
- Ensures consistent quality of compressed air oxidant and fuel gas
- Convenient turnkey system



The purifier consists of two independent filtration systems. The first system is designed to purify the compressed air (oxidant) with two stages of high efficiency coalescing filtration. These filters will remove all oil, water, and particulate matter down to 0.01 micron.

The second filtration system is designed to purify the acetylene gas. This system removes liquid acetone and solid particulate from the gas. The 73-100 protects the microcomputer gas controls and AA burner assembly from contamination and corrosion. In addition, the acetylene filter has an integral flashback arrestor, meeting all OSHA requirements, to enhance the safe operation of the spectrophotometer.

Principal Specifications

Model 73-100	
Compressed Air Inlet/Outlet	1/4" NPT (female)
Recommended Inlet Air Temperature	< 78°F (26°C)
Min./Max. Inlet Pressure (compressed air)	15 psig/125 psig
Acetylene Inlet/Outlet	9/16 - 18 LH ("B" size)
Maximum Inlet Pressure (acetylene)	15 psig max. working pressure
Ambient Operating Temperature	40°F - 100°F (4°C - 38°C)
Dimensions	11" w x 8" d x 10" h (28cm x20cm x 25cm)
Shipping Weight	10 lbs (4.5 kg)

Ordering Information

Description	Model Number
Atomic Absorption Gas Purifier	73-100
73-100 Service Kit (contains one year supply of all replacement filter cartridges)	73065
Acetylene Hose Assembly (6 feet in length)	19257

for assistance, call 800-343-4048

Parker Filtration Group

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Carson, California
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Engine Mobile Aftermarket Division
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Engine Mobile Original Equipment Division
Modesto, California
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State of California ONLY
WARNING: Proposition 65
The products described herein can expose you to chemicals known to the State of California to cause cancer or reproductive harm.
For more information: www.P65Warnings.ca.gov