FOCUSED ON **ULTRA DRY AIR**

Bulletin AGS-UDA-C

Parker

ENGINEERING YOUR SUCCESS.

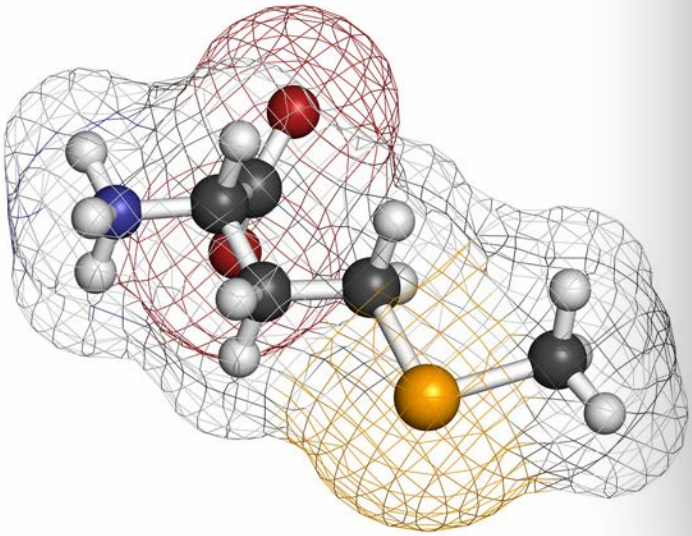
FOCUSED ON PURITY

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

In chemical sectors such as pharmaceuticals, polymer, environmental monitoring, CRO, and forensics, scientists rely upon specialized instruments for fast and accurate analysis of compound properties.

A consistent, safe supply of high-purity gases is essential to ensure precise results in analytical techniques such as chromatography, spectroscopy, and spectrometry.

The challenge is to find a gas supply solution that meets the quality criteria while being easy to use, cost-efficient, and reliable.



> Parker on-site gas generation allows us to have a high-purity, safe, and consistent supply of gas.

Consistent, reliable purity

Gas purity varies significantly from cylinder to cylinder, and impurities can be introduced via the pipeline during changeover. In contrast, on-site generators supply consistently high-purity gas, preventing variations in quality, and ensuring ultra-sensitive analysis, every time.

Supported by proven, advanced technologies, you can trust Parker gas generators to deliver the reliability and consistency your work demands.

Expert gas generation solutions

With a history of expertise in gas generation, Parker is perfectly positioned to support profitable operations in analytical science. Working with partners in laboratories across a range of sectors, our industry-leading solutions enable consistent accuracy through a constant, on-demand supply of various analytical gases.

FOCUSED ON PERFORMANCE

A safer choice

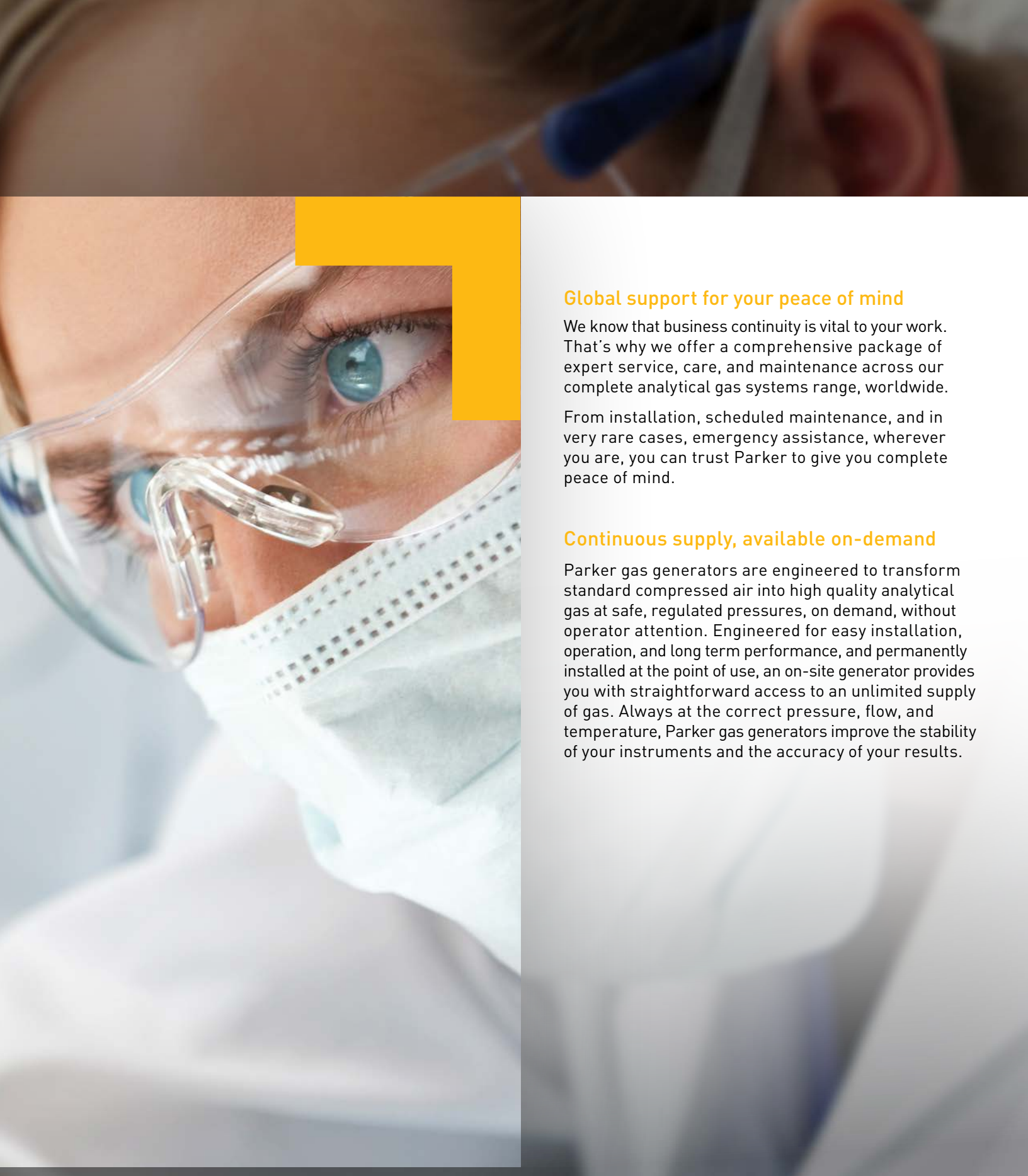
High-pressure cylinders are inherently linked to safety issues - from the chance of injury through manual handling to the risk of gas leaks, which can make the atmosphere potentially explosive or deficient in oxygen.

Gas generators from Parker are a safe alternative, thanks to leak detection technology with 'auto shut off' and integral alarms. They also operate at a fraction of the pressure and with low volumes of stored gas, further reducing the potential for harm.

These generators eliminate many of the inconveniences of dependence on outside vendors, such as uncontrollable price increases, dewar ice and condensation, contract negotiations, long term commitments, and tank rentals. With a Parker generator, you control your gas supply.

Cost-efficient with the lowest lifetime cost

In some cases, you can expect to have recouped the cost of your gas generator in less than one year. Energy efficient technologies keep running costs down, there are no hidden charges such as on-going delivery costs, cylinder rental or storage fees for spares and empty cylinders, and maintenance and part replacement costs are minimal.



Global support for your peace of mind

We know that business continuity is vital to your work. That's why we offer a comprehensive package of expert service, care, and maintenance across our complete analytical gas systems range, worldwide.

From installation, scheduled maintenance, and in very rare cases, emergency assistance, wherever you are, you can trust Parker to give you complete 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. Engineered for easy installation, operation, and long term performance, and permanently installed at the point of use, an on-site generator provides you with straightforward access to an unlimited supply of gas. Always at the correct pressure, flow, and temperature, Parker gas generators improve the stability of your instruments and the accuracy of your results.

Laboratory Membrane Air Dryers

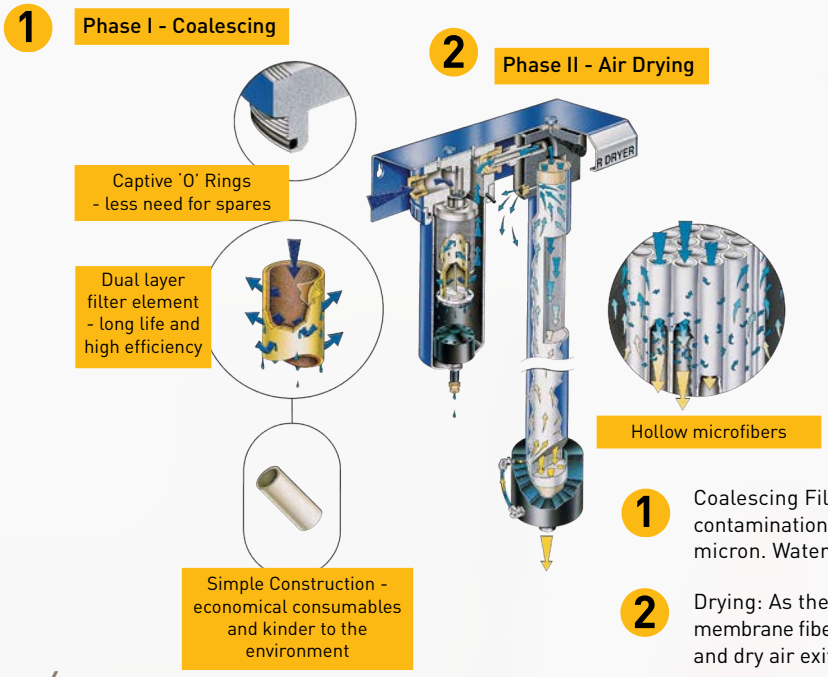
Model 64-02

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.



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.

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
Min/Max Inlet Air Temp.[2]		-40°F/140°F (-40°C/60°C)	-40°F/140°F (-40°C/60°C)	-40°F/140°F (-40°C/60°C)
Recommended Operating Temp. Range		60°F-100°F (16°C-38°C)	60°F-100°F (16°C-38°C)	60°F-100°F (16°C-38°C)
Min/Max Inlet Pressure		60 psig/150 psig	60 psig/150 psig	60 psig/150 psig
Maximum Pressure Drop		<4 psig	<4 psig	<4 psig
Wall Mountable		Yes	Yes	Yes
Inlet/Outlet Port Size		1/4" NPT (female)	1/4" NPT (female)	1/2" NPT (female)
Electrical Requirements		None	None	None
Shipping Weight		9 lbs. (4 kg)	10 lbs. (5 kg)	18 lbs. (9 kg)
Dimensions		6"w x 22"h x 5"d (15x 57x 13 cm)	6"w x 22"h x 5"d (15x 57x 13 cm)	6"w x 22"h x 5"d (15 x 57 x 13cm)

NOTES

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

for assistance, call 800-343-4048

Description	64-01	64-02	64-10
Annual Maintenance Kit	MK7601	MK7601	MK7610
Installation Kit	IK7572	IK7572	IK75880
Pressure Regulator	72-130-V883	72-130-V883	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	64-10-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

CE

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)

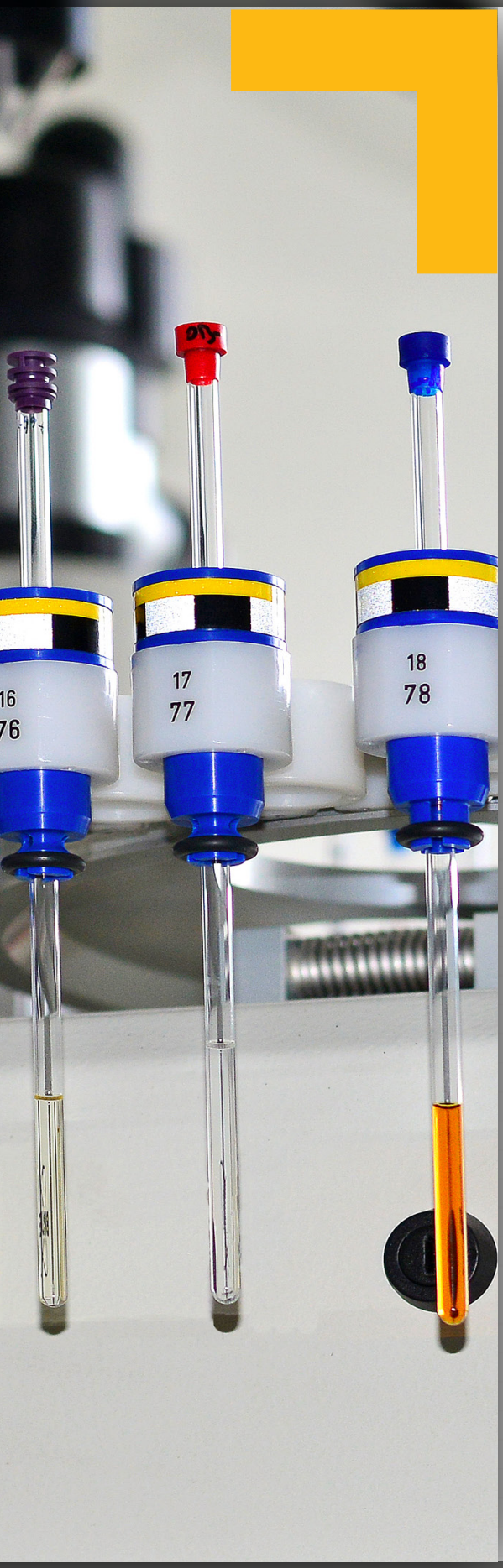
NOTES

1. Outlet dew point will increase at higher inlet compressed air temperatures

Ordering Information

for assistance, call 800-343-4048

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



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)
Max 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

for assistance, call 800-343-4048

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

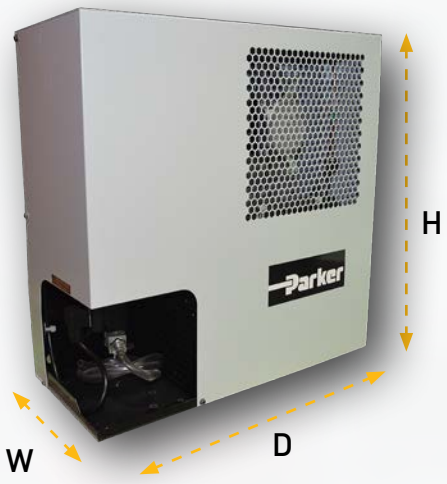
PRD Series Non-Cycling Refrigerated Air Dryers

PRD Series

Parker Refrigerated Non-Cycling Air Dryers are designed to reduce operational costs of a compressor by minimizing pressure loss.

These innovative dryers ensure reliability, efficiency, and energy savings, at a compact dimension and weight – making them ideal for all industrial users. They provide clean/dry air and guarantee performance and superior efficiency in most extreme working conditions.

- Plug and Play design for easy installation
- Robust timed solenoid drain - improved reliability (PRD15 - PRD175)
- Unique 3-in-1 heat exchanger
- Oversized demister separator resulting in excellent liquid removal over all operating conditions
- Oversized condenser to operate in ambients to 122˚F (50˚C)
- Fan cycling ensures stable operation
- 3 stage - dewpoint indicator
- Low pressure differential across dryer (1.45 psi average)
- Environmentally friendly
- Unique drain niche allows drain access without removing a single panel
- Fan pressure switch
- High refrigerant temperature switch
- High refrigerant pressure switch (PRD150-175)



Product Selection

Model	Air Connections	Nominal Capacity (scfm)*	Dimensions ins (mm)			Weight		Primary Voltages	Recommended Pre-Filter	Recommended After-Filter
			Height	Width	Depth	lbs	g			
PRD10-A11516016FLU	1/2" NPT-F	10	16.9 (430)	17.7 (450)	8.3 (210)	42	19	115V/1Ph/60Hz	AOP010CNFI	AAP010CNFI
PRD15-A11516016TXU	1/2" NPT-F	15	16.9 (430)	17.7 (450)	8.3 (210)	42	19	115V/1Ph/60Hz	AOP010CNFI	AAP010CNFI
PRD25-A11516016TXU	1/2" NPT-F	25	19.9 (505)	19.7 (500)	8.3 (210)	52	24	115V/1Ph/60Hz	AOP015CNFI	AAP015CNFI
PRD35-A11516016TXU	1/2" NPT-F	35	19.9 (505)	19.7 (500)	8.3 (210)	52	24	115V/1Ph/60Hz	AOP015CNFI	AAP015CNFI
PRD50-A11516016TXU	3/4" NPT-F	50	22.2 (565)	20.5 (520)	8.9 (225)	58	27	115V/1Ph/60Hz	AOP020DNFI	AAP020DNFI
PRD75-A11516016TXU	3/4" NPT-F	75	22.2 (565)	20.5 (520)	8.9 (225)	68	31	115V/1Ph/60Hz	AOP025DNFI	AAP025DNFI
PRD100-A11516016TXU	3/4" NPT-F	100	23.4 (604)	21.9 (555)	16.7 (425)	110	50	115V/1Ph/60Hz	AOP025DNFI	AAP025DNFI
PRD125-A11516016TXU	1 1/2"NPT-F	125	23.4 (604)	21.9 (555)	16.7 (425)	115	52	115V/1Ph/60Hz	AOP030GNFI	AAP030GNFI
PRD125-A23016016TXU	1 1/2" NPT-F	125	23.4 (604)	21.9 (555)	16.7 (425)	115	52	230V/1Ph/60Hz	AOP030GNFI	AAP030GNFI
PRD150-A11516016TXU	1 1/2" NPT-F	150	23.4 (604)	21.9 (555)	16.7 (425)	128	58	115V/1Ph/60Hz	AOP030GNFI	AAP030GNFI
PRD150-A23016016TXU	1 1/2" NPT-F	150	23.4 (604)	21.9 (555)	16.7 (425)	128	58	230V/1Ph/60Hz	AOP030GNFI	AAP030GNFI
PRD175-A23016016TXU	1 1/2" NPT-F	175	23.4 (604)	21.9 (555)	16.7 (425)	132	60	230V/1Ph/60Hz	AOP030GNFI	AAP030GNFI

NOTES

1. Filters supplied loose.

Flowrates at the following climatic conditions -

- Ambient Temperature: 100°F (38°C)
- Inlet Temperature: 100°F (38°C)
- Inlet Pressure: 100 psi g (7 bar g)

For reliable operation, a Parker pre-filter is recommended. Dryers not operated in accordance with ISO air quality class 3 for solids may see degradation in performance and/or permanent dryer failure.

Principal Specifications

Model	Max Ambient Temperature	Max Inlet Temperature	Min Ambient Temperature	Max Inlet Pressure	Refrigerant
PRD10 - PRD175	122°F (50°C)	149°F (65°C)	41°F (5°C)	232 psi g (16 bar g)	R134a

Recommended Gas Generators for Analytical Instruments

Instrument	Gas Requirements	Gas Purity Requirements	Flow Rates	Generator Recommendation/Model
Atomic Absorption (AA) with Flame	Air for Oxidant Gas	Clean, dry	1-7 SCFM	**AA Gas Purifier** Model 73-100
Atomic Thermal Desorber	Zero Air Hydrogen for FID Fuel	Clean, dry, hydrocarbon-free Clean, dry, high purity	Up to 1600 ml/ min.	**Zero Air or TOC Gas Generator** HPZA-3500 or TOC-1250
Atmospheric Pressure Ionization (API-MS)	Air for nebulizer gas, nitrogen for curtain, sheath, and shield gas	Clean, dry, hydrocarbon-free 99% or higher (Nitrogen or Zero Air)	20-67 lpm	**Nitrogen Generator** N2-14, N2-22, N2-35, N2-45, N2-80, N2-135, N2-200, Nitroflowlab, Nitroflow60, NitroflowTG1, NitroflowTG2, 76-98-N100, 76-98-N200, 76080
Autosamplers for Various Instruments	Air for pneumatic controls, nitrogen for sample injector	Clean, dry Ultra high purity	<1 SCFM <550 cc/min	**Membrane Air Dryer** 64-02 **UHP Nitrogen Generator** UHPN2-1100
CO_2 Analyzers	Calibration Air	CO_2 free	0.5-1.0 SLPM	**FT-IR Purge Gas Generator** Spectra15, Spectra 30
Continuous Emissions Monitoring (CEM)	Calibration Air Dilution Air	Dry, CO_2, SO_2, NO_x, Hydrocarbon-free	10-15 SLPM	**CEM Zero Air Generator** 75-45-M744
Emissions Analyzers	Zero Air	Hydrocarbon-free	2-15 SLPM	**Zero Air Generator** HPZA-18000
Fourier Transform Infrared Spectrometer (FT-IR)	Air for sample compartment, optics, and/or air-bearing	Clean, dry, CO2-free	0.5-3 SCFM	**FT-IR Purge Gas Generator** Spectra 15, Spectra 30 **Lab Gas Generator** 74-5041NA
Gas Chromatograph (GC) GC-FID	Zero air as flame support air Hydrogen as flame fuel gas Hydrogen as capillary carrier gas Nitrogen as packed carrier gas Nitrogen as make up gas	Clean, hydrocarbon-free Ultra high purity Ultra high purity Ultra high purity, zero grade Ultra high purity, zero grade	150-600 cc/min. 30-40 cc/min. Varies Varies <100 cc/min	**Zero Air Generator** HPZA-3500 **Hydrogen Generator** H2PEM-260 **Hydrogen Generator** H2PD-300 **UHP Nitrogen Generator** UHPN2-1100 **UHP Nitrogen Generator** UHPN2-1100
GC-FPD	Zero Air as Flame Support Air Hydrogen as Flame Fuel Gas Hydrogen as Capillary Carrier Gas Nitrogen as Packed Carrier Gas	Clean, hydrocarbon-free Ultra high purity Ultra high purity Ultra high purity	<200 cc/min 50-70 cc/min Varies Varies	**Zero Air Generator** HPZA-3500 **Hydrogen Generator** H2PEM-260 **Hydrogen Generator** H2-1200 **UHP Nitrogen Generator** UHPN2-1100
GC-NPD	Zero Air to Rubidium/Thermonic Bead Hydrogen as Detector Support Gas Hydrogen as Capillary Carrier Gas Nitrogen as Packed Carrier Gas	Dry, clean, hydrocarbon-free Ultra high purity Ultra high purity Ultra high purity	<200 cc/min <10 cc/min Varies Varies	**Zero Air Generator** HPZA-3500 **Hydrogen Generator** H2PEM-100 **Hydrogen Generator (Palladium)** H2PD-300 **UHP Nitrogen Generator** UHPN2-1100
GC-ECD	Nitrogen as carrier gas Nitrogen as make up gas	Ultra high purity, zero grade Ultra high purity, zero grade	Varies <100 cc/min	**UHP Nitrogen Generator** UHPN2-1100 **UHP Nitrogen Generator** UHPN2-1100
GC-ELCD, HALL	Hydrogen as reaction gas	Ultra high purity	70-200 cc/min	**Hydrogen Generator** H2PD-300

Instrument	Gas Requirements	Gas Purity Requirements	Flow Rates	Generator Recommendation/Model
GC-TCD	Hydrogen as carrier & reference gas	Ultra high purity	Varies	**Hydrogen generator** H2PD-300
LC-MS	Nitrogen as a curtain gas	LC-MS Grade	3-30 lmp	**Nitrogen generator** N2-14, NitroFlowLab, NitroFlow60, N2-35
ICP Spectrometer	Nitrogen as Optic/Camera Purge	Ultra high Purity	<1-5 lmp	**Nitrogen generator** 76-98NA
Nuclear Magnetic Resonance (NMR)	Air for lifting, spinning	Clean, dry	<10 SCFM	**Air dryer** UDA-300NA **Lab gas generator** 74-5041NA
Ozone generator	Supply air	Clean, dry	.3-20 SCFM	**Air dryer** 64-01, 64-02, 64-10, UDA-300NA
Protein analyzer	Dry air, nitrogen	Clean, dry	Up to 5 SCFM	**Nitrogen generator** N2-14, N2-22, NitroFlowLab, N2-35
Solvent evaporators (sample concentrators)	Nitrogen	Clean, dry nitrogen	2-15 SLPM	**Zero Air Generator** Nitrovap-1LV, Nitrovap-2LV
Stack gas sampler	Dilution air	Clean, dry	<1.0 SCFM	**CEM zero air generator** (75-45-M744)
Total oxygen demand (TOD)	Nitrogen as a carrier gas	Ultra high purity	300 cc/min	**Nitrogen Generator** UHPN2-1100
Thermal gravametric analyzer (TGA)	Nitrogen as furnace purge	Clean, dry, inert	<100 cc/min	**Zero Air Generator** HPZA-3500 **Hydrogen Generator** H2PEM-260 **Hydrogen Generator** H2PEMPD-1300-100 **UHP Nitrogen Generator** UHPN2-1100
Differential scanning calorimeter (DSC)	Air for air shield	Clean, dry	<100 cc/min	**Dry Air Generator** 64-01, UDA-300
Total hydration analyzer (THA)	Zero Air for FID Hydrogen as flame fuel gas	Clear, hydrocarbon free Ultra high purity	50-500 cc/min 5-50 cc/min	**Zero Air Generator** 75-82S, 75-83NA **Hydrogen Generator** H2PEM-100
Total organic carbon analyzer (TOC)	Dry air or nitrogen for carrier gas Combusion gas	Clean, dry, hydrocarbon-free, CO_2 Free, Ultra high purity	100-500 SLPM 50-700 cc/min	**TOC gas generator** TOC-625, TOC-1250 **UHP Nitrogen Generator** UHPN2-1100

Legal Notifications

WARNING

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Parker Also Offers Gas Generators for these Applications

Products for LC-MS & Evaporation

- High purity nitrogen for LCMS instruments and solvent evaporation
- Tri-gas units available for instruments that require nitrogen, dry air, and zero grade air
- Produce a continuous supply of high purity nitrogen from an existing compressed air supply
- Integrated compressor systems eliminate the need for house air
- Systems available to support one or dozens of instruments

Products for Spectroscopy

- Remove water and CO_2 from compressed air
- Protect expensive optics from damage from water vapor
- Increase Signal to Noise Ratio and maximize instrument sensitivity
- Ultra dry air for NMR injecting, spinning, and ejecting samples

Products for Chromatography

- Hydrogen, Zero Air, and UHP Nitrogen Generators for gas chromatography
- Combination systems available to provide multiple gasses from one unit
- Highest purities available from any supplier

Analytical Gas Supplies

- Installation kits, compressors, purifiers, flow-meters, regulators, and all the materials needed to equip your lab
- High quality components, designed specifically for use with Parker gas generators, to deliver high purity gas to your instruments

Products for TOC Analysis

- Generate gasses for all combustion, UV persulfate, and wet oxidation techniques
- Ensures consistent, reliable, instrument operation and reduces instrument service and maintenance costs

Worldwide Filtration Manufacturing Locations

North America

Compressed Air Treatment

Industrial Gas Filtration and Generation Division
Lancaster, NY
716 686 6400
www.parker.com/igfg

Haverhill, MA
978 858 0505
www.parker.com/igfg

Engine Filtration

Racor
Modesto, CA
209 521 7860
www.parker.com/racor

Holly Springs, MS
662 252 2656
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Hydraulic Filtration

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Pan American Division
Miami, FL
305 470 8800
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MANAGEMENT SYSTEM CERTIFICATION
DNV·GL
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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