aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

Breathable Compressed Air

Parker domnick hunter

ENGINEERING YOUR SUCCESS.

Working safely in hazardous environments

Employers are advised by health and safety legislation to provide Respiratory Protective Equipment (RPE) in addition to Personal Protective Equipment (PPE) wherever there is the possibility of employees or site visitors inhaling hazardous substances.

Respiratory Health Problems

The inhalation of hazardous substances can cause serious health problems including:

- **Emphysema**
  Lung Disease
- **Chronic Bronchitis**
  Irritation to airways
- **Asthma**
  Attacks of coughing, wheezing and tightness of chest
- **Rhinitis**
  Nasal irritation
- **Conjunctivitis**
  Watery eyes
- **Bronchitis**
  Coughing and shortness of breath
- **Respiratory Sensitization**
  An irreversible allergic reaction

Typical Hazardous Substances

- **Biological agents** – bacteria and other micro-organisms
- **Dusts** – with high concentration levels (produced during grinding, sanding or milling)
- **Noble gases** – e.g. argon and helium (not directly hazardous but can cause oxygen deficiency)
- **Processed substances** – such as pesticides, medicines chemicals and cosmetics
- **Fumes** – often created during welding, smelting and pouring molten metals
- **Mists** – liquid droplets formed by atomization and condensation processes. Mists can be created by plating, spraying, mixing and cleaning operations
- **Asbestos** – used extensively in buildings from the 1940's to 1960's. Exposure to asbestos fibers can cause asbestosis, lung cancer or mesothelioma
- **Lead poisoning** – lead poisoning is likely to build up slowly over time and can pose serious risks including, brain, nerve and kidney damage

Applications, Environments and Industries

Hazardous vapors, gases and fumes can be released at various stages within manufacturing applications. Whether the risk is from noxious fumes, particulate or contamination from a compressed air system, effective respiratory protection for the user is essential.

Application

- **Tank cleaning**
- **Spray painting**
- **Asbestos removal**
- **Shotblasting**
- **Tunnelling**
- **Confined spaces**
- **Welding**
- **Demolition**

Environments

- **Carbon monoxide**
- **Carbon dioxide**
- **Oil vapor & mist**
- **Airborne particulate & dust**
- **Vapors, gases & fumes**
- **Toxic gas & liquid**
- **Bio-hazards**
- **Nuclear**
- **Smoke**
- **Asbestos**
- **Biological agents**

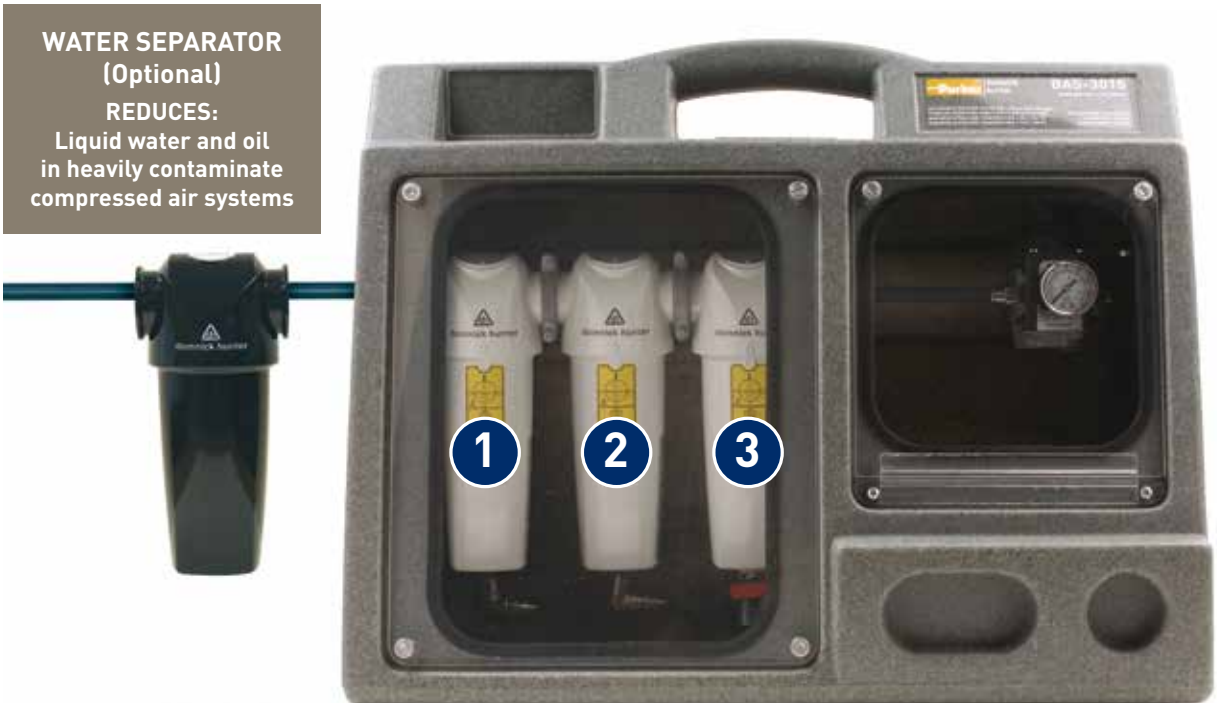
Industries

- **Agriculture**
- **Aviation**
- **Chemical**
- **Construction**
- **Electrical Utilities**
- **Fire Service**
- **Food & Beverage Production**
- **Gas Utilities**
- **Hazmat**
- **Iron/Steel Production**
- **Manufacturing**
- **Marine / Shipyard**
- **Mining**
- **Nuclear**
- **Oil & Gas Production**
- **Petrochemical**
- **Pulp & Paper**
- **Pharmaceutical & Labs**
- **Public Works**
- **Water Treatment**
- **Welding**

Breathing Air Purifiers without CO /CO_2 reduction

WATER SEPARATOR (Optional)

REDUCES:
Liquid water and oil in heavily contaminate compressed air systems



Model shown BAS-3015

1

PURIFICATION STAGE 1

GRADE AO
General Purpose
Coalescing Filter

REDUCES:
Particulate down to 1 micron, including water and oil aerosols

2

PURIFICATION STAGE 2

GRADE AA
High Efficiency
Coalescing Filter

REDUCES:
Particulate down to 0.01 micron, including water and oil aerosols

3

PURIFICATION STAGE 3

GRADE ACS
Oil Vapor Removal
Activated Carbon Filter

REDUCES:
Oil vapor and odors down to 0.003 ppm

PARKER DOMNICK HUNTER Breathing Air Purifiers PROVIDE AIR 1,000,000 CLEANER THAN THE AIR WE NORMALLY BREATHE

WARNING: THESE PRODUCTS WILL NOT REMOVE CARBON MONOXIDE OR CARBON DIOXIDE

Breathing Air Purifiers without CO / CO_2 reduction

To reduce the following contaminants				
	Solid Particles	✓	Water Aerosols	✓
	Oil Aerosols	✓	Water Vapor	×
	Oil Vapor	✓	Carbon Monoxide	×
	Odors & Fumes	✓	Carbon Dioxide	×

BAF010 – BAF015

The Parker domnick hunter BAF010 and BAF015 two stage point of use breathing air filter sets combine high efficiency coalescing pre-filtration with activated carbon oil odor and vapor removal filtration. These filter sets include a pressure regulator/gauge to allow airline pressure adjustment to users' requirements and mounting brackets for ease of installation.

BAP015

To facilitate breathing air applications for three personnel, the Parker domnick hunter BAP015 is a portable breathable air purification package consisting of a high efficiency coalescing filter and an activated carbon filter to remove oil vapor and odors. These sets include a pressure regulator/gauge, all mounted in a lightweight, stable framework.

BAS2010

The Parker domnick hunter BAS-2010 is a very robust and weatherproof portable breathing air purifier. Consisting of a high efficiency coalescing filter and an activated carbon filter to remove oil vapor and odors, this purifier includes a pressure regulator / gauge and can facilitate up to four users simultaneously.

BAS3015

The Parker domnick hunter BAS-3015 is a portable breathing air purifier housed in a compact, weatherproof, impact resistant case. Consisting of a general purpose pre-filter, a high efficiency coalescing filter and an activated carbon filter to remove oil vapor and odors, this purifier includes a pressure regulator/ gauge and can facilitate up to five users simultaneously. The BAS-3015 is also available with an optional CO monitor (BAS-3015M).

Features	BAF010-BAF015	BAS3015	BAS2010	BAP015
Purification Stages	2	3	2	2
Integral pressure regulator		•	•	•
Portable	•	•	•	•
Use with any compressed air supply	•	•	•	•
Integrated CO Monitor (optional)		•		
Wall mounted	•			
Pressure gauge	•	•	•	•

Breathing Air Purifiers with CO /CO_2 reduction

Model shown BA-DME012

1

PURIFICATION STAGE 1
GRADE WS
Water Separator
REDUCES:
Liquid water and oil in heavily contaminated compressed air systems

2

PURIFICATION STAGE 2
GRADE AA
Coalescing Filter
REDUCES:
Particulate down to 0.01 micron, including water and oil aerosols

3

PURIFICATION STAGE 3
GRADE AC
Activated Carbon Filter
REDUCES:
Oil vapor and odors down to 0.003 ppm

4

PURIFICATION STAGE 4
Adsorption Dryer
REDUCES:
Water Vapor, Carbon Dioxide (CO_2)

5

PURIFICATION STAGE 5
Catalyst Filter
REDUCES:
Carbon Monoxide (CO) by conversion into Carbon Dioxide (CO_2)

6

PURIFICATION STAGE 6
Dry Particulate Filter
REDUCES:
Particulates 99.9999% of Micro-organisms

International breathing air standards

Contaminants	OSHA Grade D	CSA Z180.1	European Pharmacopoeia	Parker domnick hunter BA-DME/BAM range*
Water		Pressure dewpoint of 41°F (5°C) below lowest system temperature	67 ppm = -49°F (-45°C) atmospheric dewpoint)	14 ppm = -72.4°F (-58°C) atmospheric dewpoint)
Oil / Lubricant	5 ppm	< 1 ppm	0.1 ppm	0.003 ppm
Carbon Dioxide (CO_2)	< 100 ppm	< 500 ppm	< 500 ppm	< 500 ppm
Carbon Monoxide (CO)	< 10 ppm	< 5 ppm	< 5 ppm	< 5 ppm
Nitrogen Oxides (N0 + NO_2)			< 2 ppm	< 2 ppm
Sulphur Dioxide ($S0_2$)			< 1 ppm	< 1 ppm

*Independently tested for Parker domnick hunter by PATTINSON SCIENTIFIC SERVICES

Figures are based on compressed air inlet containing standard ambient levels of CO2 300 to 600ppm and CO 10ppm.
At higher levels the system will provide incident protection only.

Breathing Air Purifiers with CO / CO_2 reduction

To reduce the following contaminants				
	Solid Particles	✓	Water Aerosols	✓
	Oil Aerosols	✓	Water Vapor	✓
	Oil Vapor	✓	Carbon Monoxide	✓
	Odors & Fumes	✓	Carbon Dioxide	✓

These models are recommended for hazardous applications that require an uninterrupted breathing air supply where carbon monoxide or carbon dioxide may be present.
Using a catalyst, carbon monoxide (CO) is converted, by oxidization into breathable levels of carbon dioxide (CO_2).
The catalyst is kept active by using an adsorption dryer to maintain a low pressure dewpoint.

BA-2010

The Parker domnick hunter BA-2010 is a fully pneumatic, portable Breathing Air Purifier designed to provide complete protection for up to four personnel. Five purification stages will ensure the highest quality air that is free from particulate dusts, vapors, odors, carbon dioxide (CO_2) and carbon monoxide (CO). The flow rate is easily adjustable from a pressure regulator and monitored by inlet/outlet pressure gauges on the front facia. The BA-2010 is housed in an extremely strong and robust lockable case for total security.

BA-DME012-080

The Parker domnick hunter BA-DME range of Breathing Air Purifiers is ideal for point of use multiple personnel protection at medium flow rates. At the inlet, a first stage water separator removes bulk water, followed immediately by a second stage high efficiency coalescing filter to reduce oil and water content and a third stage activated carbon filter to remove oil vapor and odors. The fourth stage adsorption dryer, reduces the water vapor content of the compressed air (to -40°F (-40°C) pdp) and CO_2 , NO and NO_2 levels to below the legal permissible limits. Downstream of the adsorption dryer, a catalyst converts carbon monoxide to carbon dioxide, again, to below the legal limits. A final dust filter captures any particulates carried over from the adsorption materials.

BAM 102 -110

The Parker domnick hunter BAM Breathing Air Purifiers consist of six purification stages mounted on a portable skid for high-capacity multiple personnel breathing air applications. At the inlet, a first stage water separator removes bulk water, followed immediately by a second stage high efficiency coalescing filter to reduce oil and water content and a third stage activated carbon filter to remove oil vapor and odors. The fourth stage adsorption dryer, reduces the water vapor content of the compressed air (to -40°F (-40°C) pdp) and CO_2, NO and NO_2 levels to below the legal permissible limits. Downstream of the adsorption dryer, a catalyst converts carbon monoxide to carbon dioxide, again, to below the legal limits. A final dust filter captures any particulates carried over from the adsorption materials.

The Parker domnick hunter BA-DME and BAM ranges comply with the European Pharmacopoeia medical air standard

Features	BA-2010	BA-DME	BAM
Purification Stages	5	6	6
Integral pressure regulator and gauge	•		
Portable	•		
Hours run meter	•		
Pneumatic Control	•		
Use with any compressed air supply	•	•	•
Intragted CO Monitor			•
Electrical supply required		•	•

Selecting the correct purifier

Parker domnick hunter Breathing Air Purifiers are designed to reduce the concentration of potential contaminants, identified as hazardous to the human respiratory system, to acceptable levels (detailed in published International Breathing Air Standards).

Where a potential inhalation hazard exists, it is essential that a full assessment of the risk to the user is carried out. This should not only identify the risk of contamination to the breathing air supply, but also the level of contamination. In the event of being unable to either remove or control the contamination risk, it is the employers' responsibility to introduce measures to ensure that the breathing air supply complies with the required air quality standard. The air quality used in a breathing air system must be controlled under all operating conditions, including the possibility of a plant or process failure.

In addition to conforming with the required compressed air quality, the delivered air flow rate must be sufficient to meet the foreseeable needs of the total number of users at their maximum work rate consumption.

Breathing air standards

The Parker domnick hunter Breathing Air Purifiers are designed to comply with the following international standards;

- **USA** CGA G7.1-1997 OSHA-Grade D
- **Canada** Z180.1-00
- **UK** BS4275 : 1997
- **Europe** EN12021
- **Australia** AS/NZS 1715 : 1994
- **New Zealand** AS/NZS 1715 : 1994

Typical peak inhalation rates for fit young persons at various work rates are shown below. Higher inhalation rates may be generated by less fit or heavier users or for wearers of heavy personal protective equipment.

Work Rate	Peak Inhalation Rate	
	cfm	l/min
Low	3.6	100
Medium	5.3	150
High	7.1	200
Very High	8.9	250

Source BS4275 : 1997.

All peak inhalation rates are given as a guide only, the actual breathing air requirement should be calculated, where possible from the total requirement of the personal protection equipment, ie. mask/hood/suit.

In order to ensure that a suitably selected breathing air purifier is reliably operated and maintained, it is essential that correct training and supervision is provided to the user.

Parker domnick hunter Breathing Air Purifiers provide the following levels of protection when using a general compressed air supply:

	Solid Particles	Oil Vapor	Oil Odors	Pressure Dewpoint	CO	CO_2	$NO+NO_2$	SO_2
Purifiers without CO/CO_2 reduction	0.01ppm	0.003ppm	None present	N/A	N/A	N/A	N/A	N/A
Purifiers with CO/CO_2 reduction	0.01ppm	0.003ppm	None present	-40°F (-40°C)	<5ppm	<500ppm	N/A	N/A

NOTE:

Parker domnick hunter CO & CO_2 reduction purifiers provide breathable air that meets all International Respiratory Air Standards, purifiers without CO & CO_2 reduction stages should not be used in an environment where CO or CO_2 has been identified as a potential inhalation risk.

Technical Specifications

		BAF010, BAF015, BAS3015, BAS2010, BAP015	BA-DME012 - 40	BA-DME050 - 080	BAM102 - 110
Operation Pressure	Maximum	145 psi g (10 bar g)	232 psi g (16 bar g)	189 psi g (13 bar g)	152 psi g (10.5 bar g)
	Minimum	58 psi g (4 bar g)	58 psi g (4 bar g)	58 psi g (4 bar g)	58 psi g (4 bar g)
Recommended Operating Temperature	Maximum	86°F (30°C)			
	Minimum	35°F (1.5°C)			

For flow rates at other pressures, apply the factor shown

Line Pressure	**psi g**	58	73	87	100	116	131	145	160	174	189	203	218	232
	bar g	4	5	6	7	8	9	10	11	12	13	14	15	16
Correction Factor		1.60	1.33	1.14	1	0.89	0.80	0.73	0.67	0.62	0.57	0.54	0.5	0.47

Product code	Connections		Flowrate @ 100 psi g (7 bar g)		Dimensions						Weight (approx.)	
	Inlet (NPT)	Outlet (NPT)	Inlet		Height		Width		Depth			
			cfm	l/s	ins	mm	ins	mm	ins	mm	lbs	kg
BAF010	1/4	3/8	13	6	13.5	343	8.15	207	5.35	136	3.1	1.4
BAF015	3/8	3/8	27	13	17.2	436	8.82	224	5.67	144	4.2	1.9
BAS2010*	1/2" Hose safety coupler	4x 1/4	21	10	16.2	410	18.1	460	9.7	246	18	8
BAS3015*	1/2" Hose safety coupler	5x 1/4	42	20	18.5	470	11.8	600	23.6	300	22	10
BAP015*	1/2" Hose safety coupler	3x 3/8	42	20	15	380	15	380	10.7	272	12	5.45

Product code	Connections		Flowrate @ 100 psi g (7 bar g)				Dimensions						Weight (approx.)	
	Inlet (NPT)	Outlet (NPT)	Inlet		Outlet		Height		Width		Depth			
			cfm	l/s	cfm	l/s	ins	mm	ins	mm	ins	mm	lbs	kg
BA-2010	1/2	3x 1/4	24	11	19	9	24.0	610	17.7	450	10.6	270	82	37
BAP-2010	1/2	3x 1/4	24	11	19	9	37.3	947	16.4	416	18.1	460	110	50
BA-DME012	1/2	3/8	24	11	19	9	37.5	952	18.7	476	11.9	302	84	38
BA-DME015	1/2	3/4	32	15	25	12	47.7	1211	19.3	490	11.9	302	95	43
BA-DME020	1/2	3/4	42	20	33	15	54.2	1376	19.3	490	11.9	302	106	48
BA-DME025	1/2	3/4	53	25	42	20	60.7	1541	19.3	490	11.9	302	117	53
BA-DME030	1/2	3/4	65	31	52	24	67.2	1707	20.5	521	11.9	302	128	58
BA-DME040	3/4	3/4	88	42	70	33	77.2	1960	28.8	732	17.6	447	164	74
BA-DME050	1	1	106	50	84	40	68.9	1750	15.8	400	47.2	1200	466	211
BA-DME060	1	1	130	61	104	49	75.4	1916	15.8	400	47.2	1200	494	224
BA-DME080	1	1	176	83	140	66	81.7	2076	29.3	745	47.2	1200	615	279
BAM102	1 1/2	2	160	76	134	63	70.1	1780	35.9	912	53.2	1352	979	444
BAM103	1 1/2	2	240	113	202	95	70.1	1780	35.9	912	53.2	1352	1078	489
BAM104	2	2	320	151	269	127	70.1	1780	35.9	912	57.6	1462	1237	561
BAM105	2	2	400	189	337	159	70.1	1780	35.9	912	61.5	1562	1319	598
BAM106	2	2 1/2	480	227	404	190	70.1	1780	35.9	912	70.9	1800	1519	689
BAM107	2	2 1/2	560	264	471	222	70.1	1780	35.9	912	74.8	1900	1645	746
BAM108	2	2 1/2	640	302	539	254	70.1	1780	35.9	912	78.7	2000	1828	829
BAM110	2 1/2	2 1/2	800	378	674	318	70.1	1780	35.9	912	86.6	2200	2225	1009

How clean is your breathing air ?

Breathable Air Purity Test Kit

Air quality testing for compressed air systems

The Parker domnick hunter Breathing Air Purity Test Kit (APTK1) allows for a convenient 'on the spot' indication of compressed air quality. This comprehensive test kit is compact and easy to use, to indicate the level of contamination, both upstream and downstream of purification equipment.

The APTK1 is supplied complete with oil aerosol, water vapor CO and CO_2 test tubes to allow immediate multiple testing.

In addition to the detection of compressed air contaminants listed below, the Parker domnick hunter APTK1 also features an oxygen analyzer, allowing for constant real-time display of the oxygen content within the compressed air system.

The Parker domnick hunter APTK1 is not only suitable for industrial compressed air testing but also, the additional O_2 analyzing feature enables compressed air lines that supply Breathing Air / Respiratory Protection Equipment (RPE) to be tested to the latest national and international standards.

Air Content Measurables

- **Oxygen**
- **CO**
- **CO_2**
- **Water Vapor**
- **Mineral Oil**

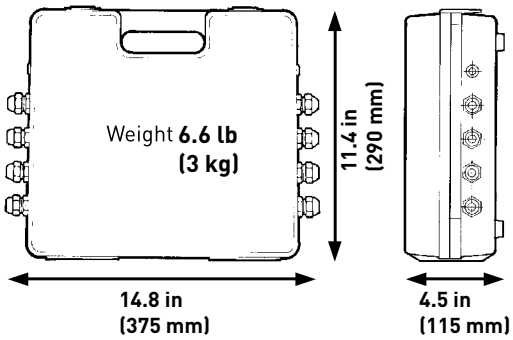
Features / Benefits

- **Lightweight and portable test kit in a robust carry case**
- **Digital oxygen content monitoring**
- **Allows simultaneous testing of upstream and downstream air purity**
- **Testing quality of breathing air to national and international standards**
- **Can be used at compressed air pressures up to 145 psi g (10 bar g)**
- **Factory set for use with 'Gastec Ltd' detection tubes**

Technical Specification

Air Purity Test Kit

Maximum inlet pressure:	145 psi g (10 bar g)
Analysis operating pressure:	43.5 psi g (3 bar g) - Factory set
Maximum inlet temperature:	104°F (40°C)
Minimum inlet temperature:	59°F (15°C)
Flow accuracy:	±4% outlet
Air flow rate range at outlet:	30 - 2500 cc/min
Hose connections:	6mm -¼ " push in adaptor
Approved detector tubes:	Calibrated for: Gastec Ltd detector tubes



Air Contaminant / Content Analysis

Model	Measurable	Sample rate	Test Duration	Total Volume
APTK1 (60 603 5050)	CO	100 cfm	1.5 minutes	150 ml
	CO_2	100 cfm	3 minutes	300 ml
	Water Vapor	100 cfm	10 minutes	1 liter
	Oil Mist (Mineral)	1000 cfm	60 minutes	60 liters
	Oxygen	50 cfm	Real-time Display	n/a

NB. All flow rates are factory set to allow immediate testing.

Consumable Parts

Replacement Gas Detection Tubes / O_2 Analyser	
Contaminant	**Kit Part No.**
Carbon Monoxide (CO)	608200465
Carbon Dioxide (CO_2)	608200464
Water Vapor (H_2O)	608200462
Oil Mist	608200463
O_2 Analyser	606035300

The Parker domnick hunter Air Purity Test Kit (APTK1) is supplied complete with oil aerosol, water vapor, CO and CO_2 test tubes (in packs of 10) to allow immediate multiple testing.

		COMPRESSED AIR FOR BREATHING - WORLD STANDARDS			
		USA 29 CFR 1910.134	**CANADA CSA Z180.1-00**	**EUROPE BS EN12021**	**AUSTRALIA AS/NZS 1715 : 1994**
SUBSTANCE	**OXYGEN**	19.5% - 23.5%	20% - 22% BY VOLUME (DRY AIR)	21% (+/-1%)	19.5% - 22%
	CARBON DIOXIDE	NOT MORE THAN 1000ppm	NOT MORE THAN 500ppm	NOT MORE THAN 500ppm	NOT MORE THAN 800ppm
	CARBON MONOXIDE	NOT MORE THAN 10ppm	NOT MORE THAN 5ppm	NOT MORE THAN 15ppm	NOT MORE THAN 10ppm
	OIL MIST / Vapor	NOT MORE THAN 5ppm	NOT MORE THAN 1ppm	NOT MORE THAN 0.5ppm	NOT MORE THAN 1ppm
	Odor / TASTE	WITHOUT SIGNIFICANT Odor OR TASTE	WITHOUT SIGNIFICANT Odor OR TASTE	WITHOUT SIGNIFICANT Odor OR TASTE	WITHOUT SIGNIFICANT Odor OR TASTE
	WATER (LIQUID)	THERE SHOULD BE NO FREE WATER	THERE SHOULD BE NO FREE WATER	THERE SHOULD BE NO FREE WATER	THERE SHOULD BE NO FREE WATER
	WATER (Vapor)	39°F (4°C) pdp @ 50 psig (3.4 barg)	The pressure dewpoint of the compressed breathing air shall be at least 9°F (5°C) below the lowest temperature to which any part of the compressed breathing air pipline or the accepted respirator maybe exposed at any season of the year.	"Air for compressed air line breathing apparatus shall have a dewpoint sufficiently low to prevent condensation & freezing. Where apparatus is used and stored at a known temperature pressure dewpoint shall be at least 9°F (5°C) below the likely lowest temperature. Where conditions of usage and storage of the air is not known the pressure dewpoint shall not exceed 12.2°F (-11°C) .	Airline pressure dewpoint should be at least 9°F (5°C) below the lowest know temperature or 12.2°F (-11°C) if the lowest temperature is not known.

Parker's Motion & Control Technologies

At Parker, we're guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further info call 716 686 6400

Aerospace

Key Markets

Aftermarket services
Commercial transports
Engines
General & business aviation
Helicopters
Launch vehicles
Military aircraft
Missiles
Power generation
Regional transports
Unmanned aerial vehicles

Key Products

Control systems & actuation products
Engine systems & components
Fluid conveyance systems & components
Fluid metering, delivery & atomization devices
Fuel systems & components
Fuel tank inerting systems
Hydraulic systems & components
Thermal management
Wheels & brakes

Climate Control

Key Markets

Agriculture
Air conditioning
Construction Machinery
Food & beverage
Industrial machinery
Life sciences
Oil & gas
Precision cooling
Process
Refrigeration
Transportation

Key Products

Accumulators
Advanced actuators
CO_2 controls
Electronic controllers
Filter driers
Hand shut-off valves
Heat exchangers
Hose & fittings
Pressure regulating valves
Refrigerant distributors
Safety relief valves
Smart pumps
Solenoid valves
Thermostatic expansion valves

Electromechanical

Key Markets

Aerospace
Factory automation
Life science & medical
Machine tools
Packaging machinery
Paper machinery
Plastics machinery & converting
Primary metals
Semiconductor & electronics
Textile
Wire & cable

Key Products

AC/DC drives & systems
Electric actuators, gantry robots & slides
Electrohydrostatic actuation systems
Electromechanical actuation systems
Human machine interface
Linear motors
Stepper motors, servo motors, drives & controls
Structural extrusions

Filtration

Key Markets

Aerospace
Food & beverage
Industrial plant & equipment
Life sciences
Marine
Mobile equipment
Oil & gas
Power generation & renewable energy
Process
Transportation
Water Purification

Key Products

Analytical gas generators
Compressed air filters & dryers
Engine air, coolant, fuel & oil filtration systems
Fluid condition monitoring systems
Hydraulic & lubrication filters
Hydrogen, nitrogen & zero air generators
Instrumentation filters
Membrane & fiber filters
Microfiltration
Sterile air filtration
Water desalination & purification filters & systems

Fluid & Gas Handling

Key Markets

Aerial lift
Agriculture
Bulk chemical handling
Construction machinery
Food & beverage
Fuel & gas delivery
Industrial machinery
Life sciences
Marine
Mining
Mobile
Oil & gas
Renewable energy
Transportation

Key Products

Check valves
Connectors for low pressure fluid conveyance
Deep sea umbilicals
Diagnostic equipment
Hose couplings
Industrial hose
Mooring systems & power cables
PTFE hose & tubing
Quick couplings
Rubber & thermoplastic hose
Tube fittings & adapters
Tubing & plastic fittings

Hydraulics

Key Markets

Aerial lift
Agriculture
Alternative energy
Construction machinery
Forestry
Industrial machinery
Machine tools
Marine
Material handling
Mining
Oil & gas
Power generation
Refuse vehicles
Renewable energy
Truck hydraulics
Turf equipment

Key Products

Accumulators
Cartridge valves
Electrohydraulic actuators
Human machine interfaces
Hybrid drives
Hydraulic cylinders
Hydraulic motors & pumps
Hydraulic systems
Hydraulic valves & controls
Hydrostatic steering
Integrated hydraulic circuits
Power take-offs
Power units
Rotary actuators
Sensors

Pneumatics

Key Markets

Aerospace
Conveyor & material handling
Factory automation
Life science & medical
Machine tools
Packaging machinery
Transportation & automotive

Key Products

Air preparation
Brass fittings & valves
Manifolds
Pneumatic accessories
Pneumatic actuators & grippers
Pneumatic valves & controls
Quick disconnects
Rotary actuators
Rubber & thermoplastic hose & couplings
Structural extrusions
Thermoplastic tubing & fittings
Vacuum generators, cups & sensors

Process Control

Key Markets

Alternative fuels
Biopharmaceuticals
Chemical & refining
Food & beverage
Marine & shipbuilding
Medical & dental
Microelectronics
Nuclear Power
Offshore oil exploration
Oil & gas
Pharmaceuticals
Power generation
Pulp & paper
Steel
Water/wastewater

Key Products

Analytical Instruments
Analytical sample conditioning products & systems
Chemical injection fittings & valves
Fluoropolymer chemical delivery fittings, valves & pumps
High purity gas delivery fittings, valves, regulators & digital flow controllers
Industrial mass flow meters/ controllers
Permanent no-weld tube fittings
Precision industrial regulators & flow controllers
Process control double block & bleeds
Process control fittings, valves, regulators & manifold valves

Sealing & Shielding

Key Markets

Aerospace
Chemical processing
Consumer
Fluid power
General industrial
Information technology
Life sciences
Microelectronics
Military
Oil & gas
Power generation
Renewable energy
Telecommunications
Transportation

Key Products

Dynamic seals
Elastomeric o-rings
Electro-medical instrument design & assembly
EMI shielding
Extruded & precision-cut, fabricated elastomeric seals
High temperature metal seals
Homogeneous & inserted elastomeric shapes
Medical device fabrication & assembly
Metal & plastic retained composite seals
Shielded optical windows
Silicone tubing & extrusions
Thermal management
Vibration dampening

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Worldwide Filtration Manufacturing Locations

North America

Compressed Air Treatment

Filtration & Separation/Balston
Haverhill, MA
978 858 0505
www.parker.com/balston

Finite Airtek Filtration
Airtek/domnick hunter/Zander
Lancaster, NY
716 686 6400
www.parker.com/faf

Finite Airtek Filtration/Finite
Oxford, MI
248 628 6400
www.parker.com/finitefilter

Engine Filtration & Water Purification

Racor
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Holly Springs, MS
662 252 2656
www.parker.com/racor

Beaufort, SC
843 846 3200
www.parker.com/racor

Racor – Village Marine Tec.
Gardena, CA
310 516 9911
desalination.parker.com

Parker Sea Recovery
Carson, CA
310 637 3400
www.searecovery.com

Hydraulic Filtration

Hydraulic Filter
Metamora, OH
419 644 4311
www.parker.com/hydraulicfilter

Laval, QC Canada
450 629 9594
www.parkerfarr.com

Process Filtration

domnick hunter Process Filtration
Oxnard, CA
805 604 3400
www.parker.com/processfiltration

Madison, WI
608 824 0500
www.scilog.com

Phoenixville, PA
610 933 1600
www.parker.com/processfiltration

Aerospace Filtration

Velcon Filtration
Colorado Springs, CO
719 531 5855
www.velcon.com

Europe

Compressed Air Treatment

domnick hunter Filtration & Separation
Gateshead, England
+44 (0) 191 402 9000
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Parker Gas Separations
Etten-Leur, Netherlands
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www.parker.com/dhfns

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Condition Monitoring Centre
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West Sussex, England
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www.kittiwake.com

Parker Procal
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+44 (0) 1733 232 495
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Process Filtration

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Birtley, England
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www.parker.com/processfiltration

Parker Twin Filter BV
Zaandam, Netherlands
+31(0)75 655 50 00
www.twinfilter.com

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