

Breathable Compressed Air Purifier BAS3015 & BAS3015M

Engineering Data Sheet



Description

The Parker domnick hunter BAS-3015 / BAS-3015M is a portable breathing air purification system, designed to provide high quality breathable air to meet breathing air standards for compressed air fed respiratory devices.

The BAS-3015 / BAS-3015M breathing air purifier utilises 3 separate stages of compressed air treatment, combined together in a compact and robust housing.

1st Stage - Is a general purpose coalescing filter which reduces particulate down to 1 micron, including water and oil aerosols.

2nd Stage - Is a high efficiency coalescing filter which reduces particulate down to 0.01 micron, including water and oil aerosols.

3rd Stage - Is an oil vapour removal activated carbon filter which reduces oil vapour and odours down to 0.003 mg/m³.

Pressure to the 4 outlet connections can be controlled and set as desired using the lockable pressure regulator and gauge



This product will not remove CO, CO2 or toxic gases

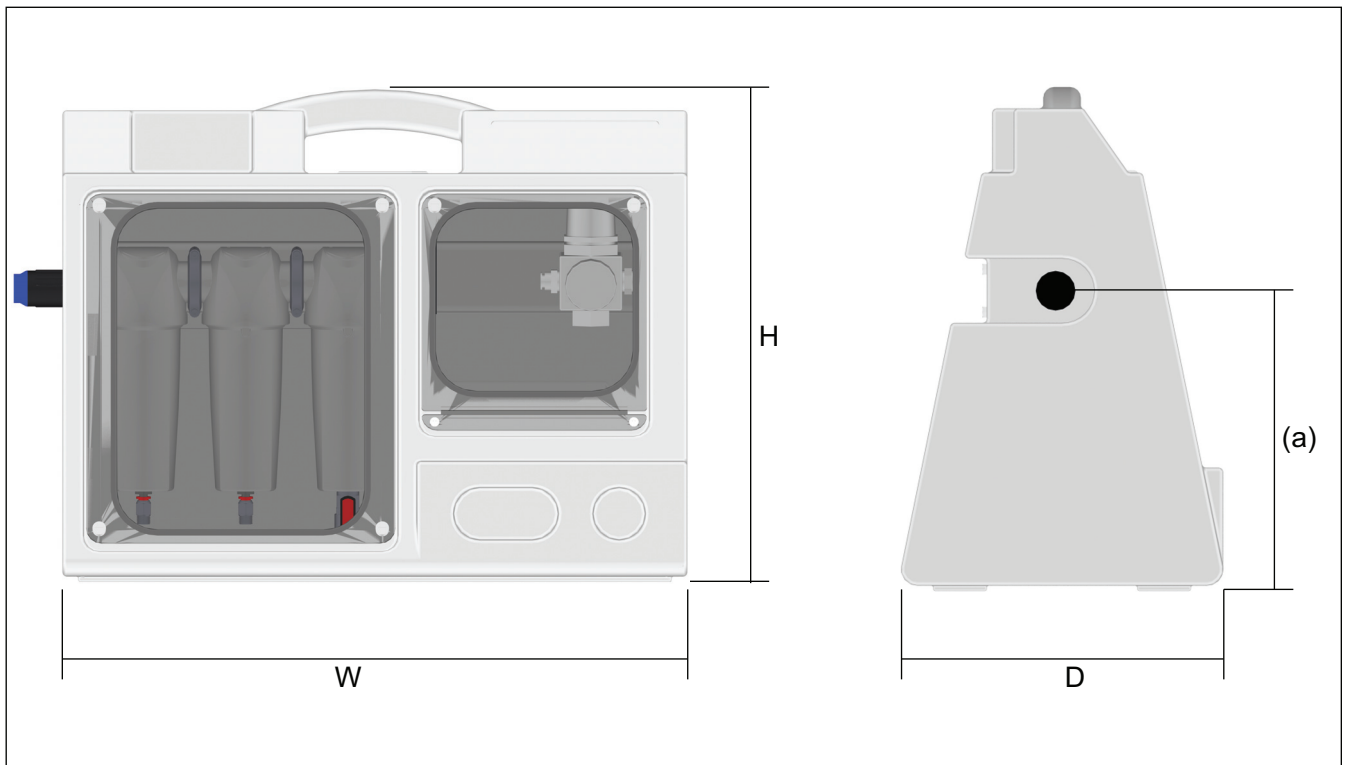
Technical Specification

BAS-3015 / BAS-3015M		
Connections	Inlet	1/2" Hose safety coupler
	Outlet	4 x G1/4
Maximum Flow Rate		1200 L/min @ 7 bar g (42 scfm @100 psi g)
Minimum Flow Rate		350 L/min @ 7 bar g (12 scfm @ 100 psi g)
Maximum Inlet Pressure		10 bar g (145 psi g)
Minimum Inlet Pressure		4 bar g(58 psi g)
Maximum Operating Temperature		30°C (86°F)
Minimum Operating Temperature		1.5°C (35°F)

CO Monitor (when fitted)		
Alarms	Audible	90 dba 5 ppm CO and above
	Visual - Internal	Power on LCD light CO alarm indicator light and indication on display CO analyser low battery warning and display
CO Monitor		Display - LCD Sensor - electronic chemical cell type
Power		Integral lithium ion rechargeable battery (non replaceable) (running time approx. 20hrs) External 110 - 240 Volt AC power supply






Weights and Dimensions

BAS-3015 / BAS-3015M	
(H)	470mm (18.5")
(W)	600mm (11.8")
(D)	300mm (23.6")
(a)	280mm (11")
Weight	10Kgs (22lbs)



Preventative Maintenance Kits

Service Intervals

Description of Service Required		Service recommended every:			
Component	Operation	Week	3-month	12-month	18-month
Complete Assembly	Check for air leaks.				
Filtration	Check the pressure gauges during purging for excessive back pressure.				
Filtration	Replace the adsorption filter elements ⁽¹⁾	See Note (1)			
Filtration	Replace the coalescing filter elements and automatic drains				
CO Monitor	Recalibrate the CO Monitor if fitted				
CO Monitor	Replace the electro-chemical sensor				

(1) Unlike oil aerosol removal filters which are changed annually to guarantee compressed air quality, the lifetime of an oil vapour removal filter can be attributed to various factors and require more frequent changes. Factors affecting the lifetime of adsorption filters are:

Oil vapour concentration - The higher the inlet concentration of oil vapour, the faster the activated carbon capacity will expire.

Bulk oil - Adsorption filters are designed to remove oil vapour and odours, not liquid oil or aerosols. Poorly maintained or non-existent pre-filtration will cause the OVR filter capacity to quickly expire.

Temperature - Oil vapour content increases exponentially to inlet temperature, reducing element life. Additionally, as temperature increases, the adsorption capacity decreases, again reducing element life.

Relative Humidity or Dewpoint - Wet air reduces the adsorptive capacity of the carbon.

Compressor oil changes - When compressor oil is changed, the new lubricant burns off "light ends" which increases the oil vapour content for hours or even weeks afterwards. This increase in oil vapour content is adsorbed by the OVR filter, significantly reducing its adsorptive life.

ACS / AC Element performance is based upon a maximum oil vapour inlet concentration of 0.018mg/m³, with compressed air at 21°C and a pressure dewpoint of -40°C PDP.

These elements should be replaced upon detection of vapour, odour or taste.

Key:

	Check		Replace
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Preventative Maintenance Kits

Required every 12 months



Description	Contents
BAS-PMK15-12	4 x Activated Carbon Elements
	2 x Auto Drain
	2 x Coalescing Elements

CO Monitor Recalibration (BAS-3015M only) - Required every 12 months



Refer to the BACO 200 User Guide for Calibration Procedure

Electro-chemical Sensor - Required every 18 months



Description	Catalogue No.	Technical Ref.	Contents
Kit: BACO Monitor Sensor	608204210	608204210	1x BACO Monitor Sensor

Refer to the BACO 200 User Guide for Sensor replacement procedure



ELEMENTS

Parker filters are designed to produce clean compressed air, gas and liquid to the highest industry standards. To maintain impeccable results, Elements within the filter must be replaced annually.

Choosing the Parker brand means you can be assured that Elements are readily available, affordable and the most energy efficient product of its kind on the market. The elements are also supplied in 100% recyclable packaging. An additional advantage of purchasing Parker Elements is that you will reduce your company's carbon footprint by 190kg. This is the equivalent of a 700 mile flight from Edinburgh to Berlin! Parker Filter Elements also prove to be highly efficient when used in any leading competitor's filters.



PARTS

Parker Kits make everyday maintenance easy. They are available for all of our products and are simply value-for money. The Parts within the kits support our customers' varied maintenance, repair and overhaul activities.

Additionally, Preventative Maintenance Kits can be purchased for dryers and gas generators. These kits mean our customers dryer's and generator's can be serviced easily to ensure optimum performance.

An extensive range of durable Parker Parts can be obtained within 24 hours to any European, Middle East or African destination.



SPECIALISED SERVICES

Parker Specialist Service Engineers test on-site efficiency measuring many variables including airflow, pressure, temperature, dewpoint and power consumption.

Our team of highly trained experts are the best in the industry. They take into account a range of environmental factors that could affect your system's performance. The results from this Specialist Service are extremely accurate and produce invaluable information.

Importantly, Parker informed recommendations lead to significant savings for our customers, which mean they return time and time again for our advice and products.



M.R.O

Maintenance Repair & Overhaul - Parker Technicians are the industry's finest. Their skills and qualifications are annually approved to keep their product and legislation knowledge fresh and expertise relevant.

With this in mind, Parker offers onsite and on demand servicing to meet customers' unique requirements in a timely and efficient manner.

Parker MRO service ranges from a basic maintenance check covered under product warranty right through to a comprehensive programme, which even puts the onsite application under the microscope.

With customers at the heart of everything Parker does, the MRO service is no exception to this.

Parker Filter Elements also prove to be highly efficient when used in any leading competitor's filters



SUPPORT SERVICES

Parker Support Services are the first port of call for customers in need of help or guidance.

The fact that this team is responsible for the production of User Guides and Manuals gives you an insight into the level and detail of their parts and product knowledge.

Over-the-phone support is just one way in which Parker's extremely knowledgeable team, quickly reduces downtime or resolves product queries.

On some occasions engineers need to be on site to carry out a repair. In these cases, the local engineer will be quickly dispatched to ensure our customers can return to production as soon as possible.

One-to-one training can also be provided by our Support Services team. This has enabled hundreds of Parker distributors to gain an in-depth understanding. Training will also ensure distributors can make timely repairs and easily maintain their customers' products.



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