

# Breathable Compressed Air Purifier BAS-2015

Engineering Data Sheet



## Description

The Parker domnick hunter BAS-2015 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-2015 breathing air purifier utilises 3 separate stages of compressed air treatment, combined together in a compact and robust housing.

**1st Stage** - Is a high efficiency coalescing filter which reduces particulate down to 0.01 micron, including water and oil aerosols.

**2nd Stage** - Is an oil vapour removal activated carbon filter which reduces oil vapour and odours down to 0.003 mg/m<sup>3</sup>.

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

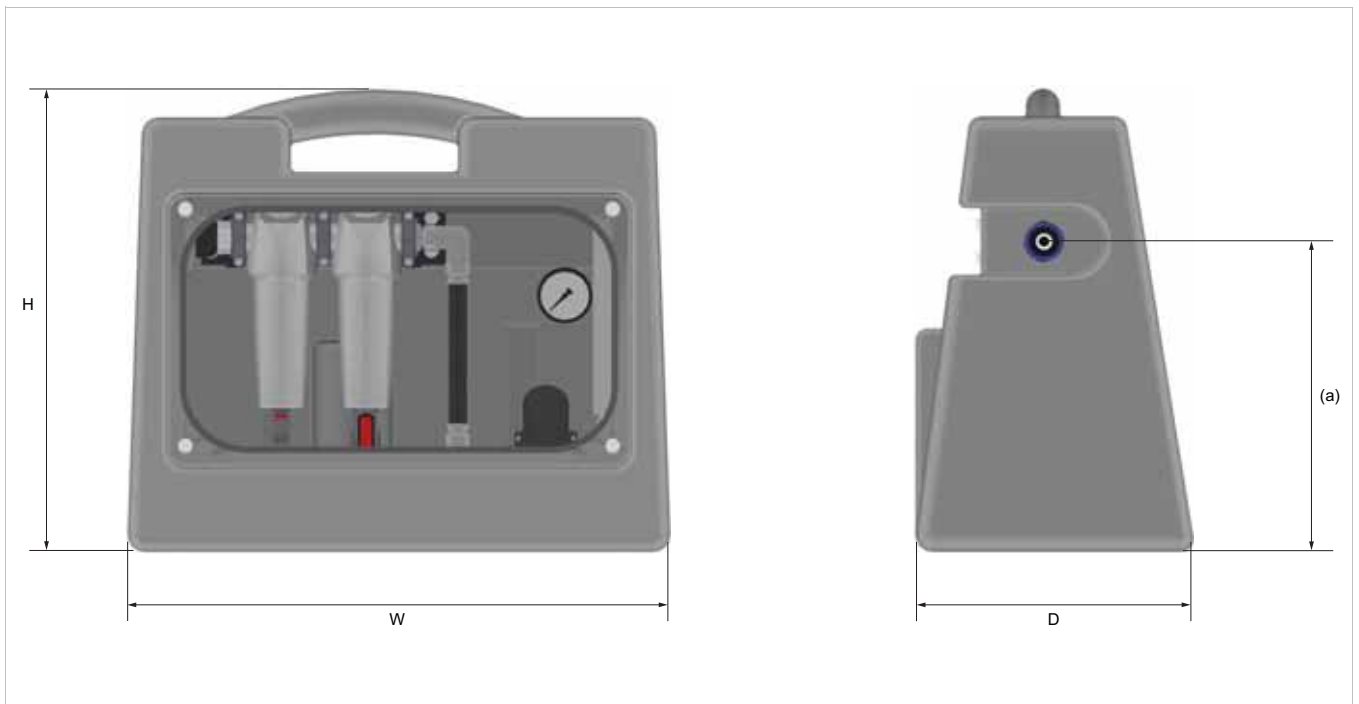


This product will not remove CO, CO2 or toxic gases

## Technical Specification

BAS-2015		
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)

## Weights and Dimensions



BAS-2015	
(H)	470mm (18.5")
(W)	600mm (11.8")
(D)	300mm (23.6")
(a)	280mm (11")
Weight	9.2Kgs (20lbs)

## Preventative Maintenance Kits

### Service Intervals

Description of Service Required		Service recommended every:		
Component	Operation	Week	3-month	12-month
Complete Assembly	Check for air leaks.	🔍		
Filtration	Check the pressure gauges during purging for excessive back pressure.		🔍	
Filtration	Replace the adsorption filter elements <sup>(1)</sup>	See Note (1)		
Filtration	Replace the coalescing filter elements and automatic drains			🔧

**(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/m<sup>3</sup>, 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-PMK2015-12	4 x Activated Carbon Elements
	1 x Auto Drain
	1 x Coalescing Elements



## 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.



# Parker Worldwide

## Europe, Middle East, Africa

### AE – United Arab Emirates,

Dubai  
Tel: +971 4 8127100  
parker.me@parker.com

### AT – Austria, Wiener Neustadt

Tel: +43 (0)2622 23501-0  
parker.austria@parker.com

### AT – Eastern Europe, Wiener Neustadt

Tel: +43 (0)2622 23501 900  
parker.easteurope@parker.com

### AZ – Azerbaijan, Baku

Tel: +994 50 2233 458  
parker.azerbaijan@parker.com

### BE/LU – Belgium, Nivelles

Tel: +32 (0)67 280 900  
parker.belgium@parker.com

### BY – Belarus, Minsk

Tel: +375 17 209 9399  
parker.belarus@parker.com

### CH – Switzerland, Etoy

Tel: +41 (0)21 821 87 00  
parker.switzerland@parker.com

### CZ – Czech Republic, Klecany

Tel: +420 284 083 111  
parker.czechrepublic@parker.com

### DE – Germany, Kaarst

Tel: +49 (0)2131 4016 0  
parker.germany@parker.com

### DK – Denmark, Ballerup

Tel: +45 43 56 04 00  
parker.denmark@parker.com

### ES – Spain, Madrid

Tel: +34 902 330 001  
parker.spain@parker.com

### FI – Finland, Vantaa

Tel: +358 (0)20 753 2500  
parker.finland@parker.com

### FR – France, Contamine s/Arve

Tel: +33 (0)4 50 25 80 25  
parker.france@parker.com

### GR – Greece, Athens

Tel: +30 210 933 6450  
parker.greece@parker.com

### HU – Hungary, Budapest

Tel: +36 1 220 4155  
parker.hungary@parker.com

### IE – Ireland, Dublin

Tel: +353 (0)1 466 6370  
parker.ireland@parker.com

### IT – Italy, Corsico (MI)

Tel: +39 02 45 19 21  
parker.italy@parker.com

### KZ – Kazakhstan, Almaty

Tel: +7 7272 505 800  
parker.easteurope@parker.com

### NL – The Netherlands, Oldenzaal

Tel: +31 (0)541 585 000  
parker.nl@parker.com

### NO – Norway, Asker

Tel: +47 66 75 34 00  
parker.norway@parker.com

### PL – Poland, Warsaw

Tel: +48 (0)22 573 24 00  
parker.poland@parker.com

### PT – Portugal, Leca da Palmeira

Tel: +351 22 999 7360  
parker.portugal@parker.com

### RO – Romania, Bucharest

Tel: +40 21 252 1382  
parker.romania@parker.com

### RU – Russia, Moscow

Tel: +7 495 645-2156  
parker.russia@parker.com

### SE – Sweden, Spånga

Tel: +46 (0)8 59 79 50 00  
parker.sweden@parker.com

### SK – Slovakia, Banská Bystrica

Tel: +421 484 162 252  
parker.slovakia@parker.com

### SL – Slovenia, Novo Mesto

Tel: +386 7 337 6650  
parker.slovenia@parker.com

### TR – Turkey, Istanbul

Tel: +90 216 4997081  
parker.turkey@parker.com

### UA – Ukraine, Kiev

Tel: +380 44 494 2731  
parker.ukraine@parker.com

### UK – United Kingdom, Warwick

Tel: +44 (0)1926 317 878  
parker.uk@parker.com

### ZA – South Africa, Kempton Park

Tel: +27 (0)11 961 0700  
parker.southafrica@parker.com

## North America

### CA – Canada, Milton, Ontario

Tel: +1 905 693 3000

### US – USA, Cleveland

Tel: +1 216 896 3000

## Asia Pacific

### AU – Australia, Castle Hill

Tel: +61 (0)2-9634 7777

### CN – China, Shanghai

Tel: +86 21 2899 5000

### HK – Hong Kong

Tel: +852 2428 8008

### IN – India, Mumbai

Tel: +91 22 6513 7081-85

### JP – Japan, Tokyo

Tel: +81 (0)3 6408 3901

### KR – South Korea, Seoul

Tel: +82 2 559 0400

### MY – Malaysia, Shah Alam

Tel: +60 3 7849 0800

### NZ – New Zealand, Mt Wellington

Tel: +64 9 574 1744

### SG – Singapore

Tel: +65 6887 6300

### TH – Thailand, Bangkok

Tel: +662 186 7000-99

### TW – Taiwan, Taipei

Tel: +886 2 2298 8987

## South America

### AR – Argentina, Buenos Aires

Tel: +54 3327 44 4129

### BR – Brazil, Sao Jose dos Campos

Tel: +55 800 727 5374

### CL – Chile, Santiago

Tel: +56 2 623 1216

### MX – Mexico, Apodaca

Tel: +52 81 8156 6000

### European Product Information Centre

Free phone: 00 800 27 27 5374

(from AT, BE, CH, CZ, DE, DK, EE, ES, FI,  
FR, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, RU,  
SE, SK, UK, ZA)