



Breathable Compressed Air EVOLUTION Filtration

Preventative Maintenance Guide

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

Breathing Air Module

BAM10 - BAM70



Service Intervals

Description of Service Required		Recommended Interval:									
Component	Operation	Every Day	Every Week	Every month	Every 3 months	Every 6 months	Every 12 months	Every 18 months	Every 24 months	Every 36 months	
MX Dryer	Check POWER ON indicator is illuminated.										
MX Dryer	Check STATUS / FAULT indicators located on the controller.										
System	Check for air leaks.										
MX Dryer	Check the pressure gauges during purging for excessive back pressure.										
MX Dryer	Check the condition of electrical supply cables and conduits.										
MX Dryer	Check for cyclic operation.										
MX Dryer	- Replace the active exhaust silencers Recommended Service										
Filtration	Replace the inlet, outlet and control air filters, and service drains. Recommended Service										
CO Safe	Replace the activated carbon cartridges ⁽¹⁾ Recommended Service	See Note (1)									
MX Dryer	Replace / Calibrate dewpoint transmitter (DDS Units only). Recommended Service										
CO Monitor	Calibrate the CO Monitor										
CO Monitor	Replace the electrochemical sensor Recommended Service										
CO Safe	Replace the Catalyst cartridges ⁽²⁾ Recommended Service	See Note (2)									
MX Dryer	Replace the valve seats and seals. Recommended Service										
MX Dryer	Replace the Desiccant. Recommended Service										

(1) Unlike oil aerosol removal filters which are changed annually to guarantee compressed air quality, the lifetime of the activated carbon cartridges can be attributed to various factors and require more frequent changes. Factors affecting the lifetime of the cartridges 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 proportionally 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.

The cartridge 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 cartridges should be replaced upon detection of vapour, odour or taste.

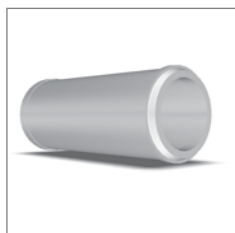
(2) Under normal operating conditions the catalyst cartridges should be replaced every 24 months. If an oil vapour incident occurs then we recommend that the carbon and catalyst cartridges are replaced at the same time.

Key:

	Check		Process		Replace
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Preventative Maintenance Kits

Recommended every 12 months



Description	Catalogue Number	Contents	Order Qty
Kit: Silencer Element	608620090	Silencer element	--

Note. The number of kits required is dependent upon the model of dryer as illustrated below.

Description	BAM10	BAM20	BAM30	BAM40	BAM50	BAM70
Kit: Silencer Element	1	1	1	2	2	3



Description	Catalogue No.	Contents	Order Qty
045AO (BAM10 - 40)	045AO	AO Element	1
045AA (BAM10 - 40)	045AA	AA Element	1
045AR (BAM10 - 40)	045AR	AR Element	1
050AO (BAM50)	050AO	AO Element	1
050AA (BAM50)	050AA	AA Element	1
050AR (BAM50)	050AR	AR Element	1
055AO (BAM70)	055AO	AO Element	1
055AA (BAM70)	055AA	AA Element	1
055AR (BAM70)	055AR	AR Element	1



Description	Catalogue Number	Contents	Order Qty
Kit: Service Exchange Hygrometer	608203580	Hygrometer transmitter Fixed orifice o-ring	1

Note. One kit required for each dryer bank with dewpoint transmitter.



Description	Catalogue Number	Contents	Order Qty
Kit: AC Cartridge (BAM10 / BAM20)	CAT010ACK	AC Cartridge (x2) O-rings	1
Kit: AC Cartridge (BAM30 / BAM40)	CAT020ACK	AC Cartridge (x4) O-rings	1
Kit: AC Cartridge (BAM50)	CAT030ACK	AC Cartridge (x6) O-rings	1
Kit: AC Cartridge (BAM70)	CAT040ACK	AC Cartridge (x8) O-rings	1

Recommended every 18 months



Description	Catalogue Number	Contents	Order Qty
Kit: BAC Monitor Sensor	BACOCOANALYSER	Sensor	1

Recommended every 24 month



Description	Catalogue Number	Contents	Order Qty
Kit: Catalyst Cartridge (<i>BAM10 / BAM20</i>)	CAT010CK	Catalyst Cartridge (x2) O-rings	1
Kit: Catalyst Cartridge (<i>BAM30 / BAM40</i>)	CAT020CK	Catalyst Cartridge (x4) O-rings	1
Kit: Catalyst Cartridge (<i>BAM50</i>)	CAT030CK	Catalyst Cartridge (x6) O-rings	1
Kit: Catalyst Cartridge (<i>BAM70</i>)	CAT040CK	Catalyst Cartridge (x8) O-rings	1

Recommended every 36 months

Description	Catalogue Number	Contents	Order Qty
Kit: Valve Overhaul Kit	608620091	Inlet Valve Kit (Catalogue No.608620093)	
		Outlet Valve Kit (Catalogue No.608620094)	
		Exhaust Valve Kit (Catalogue No.608620095)	
		Control Valve Kit MXA/MXS (Catalogue No.608620096)	

Note. One overhaul kit is required for each dryer bank.

Inlet Valve Kit



Description	Catalogue Number	Contents	Order Qty
Kit: Inlet Valve	608620093	Cylinder valves Associated o-rings Fixing screws	1

Outlet Valve Kit



Description	Catalogue Number	Contents	Order Qty
Kit: Outlet Valve	608620094	Valve spring assemblies Associated o-rings Fixing nuts and bolts	1

Exhaust Valve Kit



Description	Catalogue Number	Contents	Order Qty
Kit: Exhaust Valve	608620095	Cylinder valve Elbow fittings Associated o-rings Fixing screws	1

Control Valve Kit



Description	Catalogue Number	Contents	Order Qty
Kit: Control Valve	608620096	3-Bank solenoid valve 010AA filter element E009AA filter element Fixing screws	1



Description	Catalogue Number	Contents	Order Qty
Kit: Desiccant AA	608203661	11 Litre Container of AA	--
Kit: Desiccant MS	608203662	11 Litre Container of MS	

Note. The quantity of desiccant material required is dependent upon the size of the module.

Description	BAM10	BAM20	BAM30	BAM40	BAM50	BAM70
Kit: Desiccant AA (11.2 Ltr)	8	12	14	19	24	33
Kit: Desiccant MS (11.2 Ltr)	1	2	2	3	3	4

Ensure that the dryer is filled using a Snowstorm filler and replace the column seals.

Column Seal Kits



Description	Catalogue Number	Contents	Order Qty
Kit: Column Seals	608620098	Column o-rings	1
		Outlet plate o-ring	

Note. One kit is required for each dryer.

Snowstorm Filler



Description	Catalogue Number	Contents	Order Qty
Snowstorm Filler	608201051	Jumbo Snowstorm Filler	1



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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