



domnick hunter

Breathing Air Purifier

BA-PAC

Typical Applications

Automotive

Sand blasting

Paint spraying

Hazardous packaging

The Problem

In compressed air breathing systems any odours and tastes of oil and other vapours not removed by the preceding filtration can, apart from causing harm to individuals when exposed to it for long periods, cause significant discomfort to the user of the breathing air. The provision of suitable equipment is included within Control Of Substances Hazardous to Health (COSHH) and Occupational Safety & Health Administration (OSHA) regulations which requires the employer to provide equipment in order to protect the health of their employees.

The Solution

The BA-PAC is a personal breathing air purifier which uses activated carbon to remove odours and tastes in a compressed breathing air system to a level (0.0036 mg/m^3) that is well below the quantity that can be discerned by a human and conforms all International breathing air standards (for oil vapour and odour removal).

Comprising of a lightweight activated carbon filter cartridge and housing, the BA-PAC has an inlet connection for a compressed air supply hose (not supplied), and an outlet connection to a continuous flow adjustable regulator to deliver controlled breathable air to the user's hood, visor or mask.

The unit is supplied complete with a strong lightweight mounting belt with quick release buckle, and two replacement filter cartridges.



Benefits

- Provides user with high quality odour free air in accordance with international standards
- Unique colour change cartridge gives advanced warning of element degradation.
- Compact design provides user with maximum comfort & range of movement
- Can be adapted to fit all types of air-fed breathing equipment
- Long service life (typically 400 hours/element)
- Simple, time efficient filter element replacement

Technical Specification

Maximum flow capacity at 3 bar g (44 psi g)*:
300 L/min (10 scfm)

Minimum regulated flow rate at 3 bar g (44 psi g)*:
160 L/min (5.5 scfm)

Maximum working pressure:
10.5 bar g (154 psi g)

Minimum recommended working pressure:
3 bar g (44 psi g)

Maximum working temperature: 30°C (86°F)

Minimum working temperature: 1.5°C (35°F)

Operational pressure differential*:
100m bar d (1.5 psi d)

Inlet connection (filter): G $\frac{1}{4}$

Outlet connection (flow regulator): G $\frac{1}{4}$

Weight (approx.): 0.17 kg (0.37 lbs)

Replacement element: EAPC1 (6 pack)

Air quality: Maximum remaining oil content
0.0036mg/m³ at 21°C (70°F), 7 bar g (102 psi g)

* Based on A.N.R. conditions

For flow rates at other pressures, use the following correction factors:

Line Pressure	bar g	3	4	5	6	7	8	9	10.5
	psi g	44	58	73	87	102	116	131	154
Correction Factor		1.0	1.15	1.29	1.41	1.53	1.63	1.73	1.87

We recommend an OIL-XPLUS High Efficiency Coalescing Filter is installed to pre-filter the air to the BA-PAC, providing breathable air to a higher standard than specified in International air standards for oil mist, vapour, odour and solid dirt particle removal.

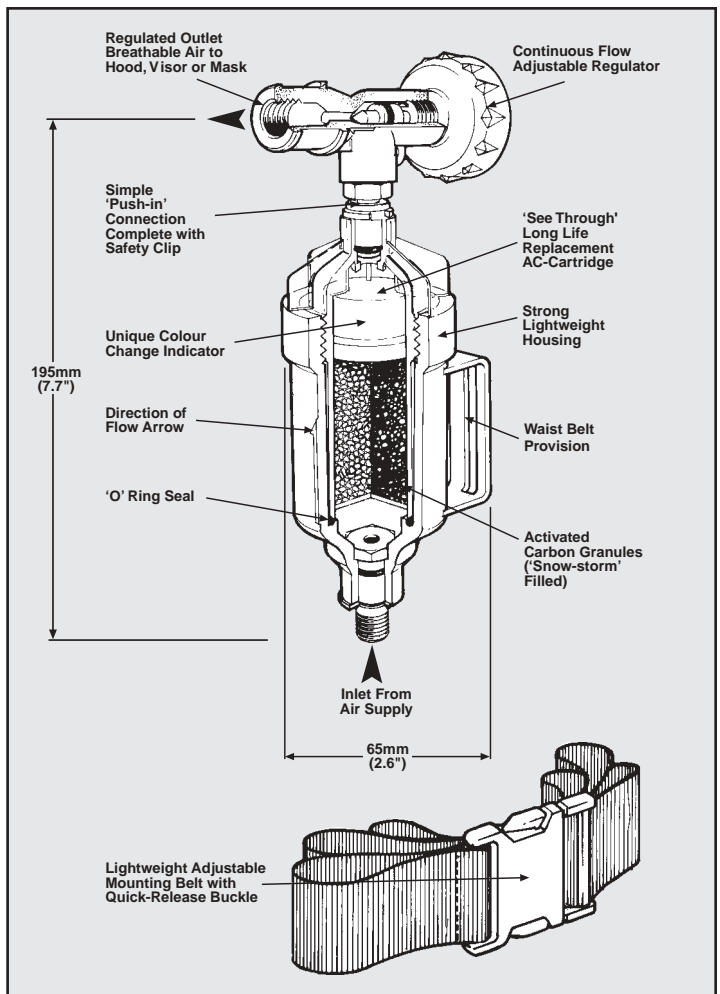
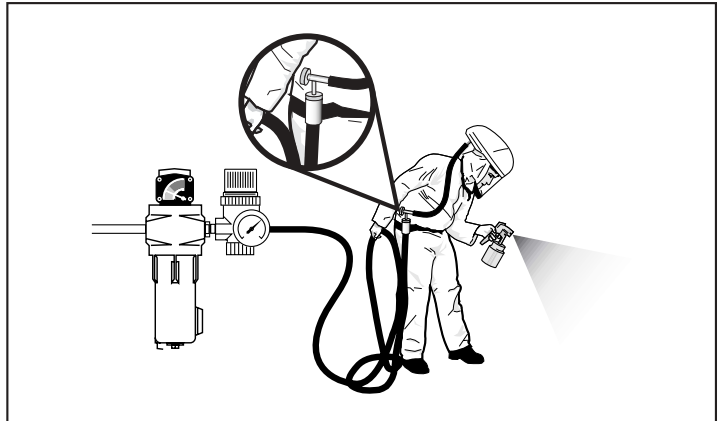
NOTE - this unit will not remove carbon monoxide (CO), carbon dioxide (CO₂) or other toxic gases or fumes.

SAFETY WARNING

1. Equipment must be fully checked before every use and any fault should be rectified before use. Maintenance must be carried out regularly to ensure optimum operation.
2. Ensure the compressor intake is not located in an area where unnecessary contaminants would be drawn in, or one which is starved of oxygen, or has an abnormal level of harmful gases.
3. Care should be taken to ensure that the compressor is regularly maintained and operating efficiently and is not overheating (as per manufacturing instructions).
4. This unit will **not** remove carbon monoxide (CO), carbon dioxide (CO₂) or other toxic gases or fumes. If such gases are suspected, then **domnick hunter** must be consulted before use.
5. Use only manufacturers genuine replacement parts.

Installation

The BA-PAC is designed for use with air fed personal protective equipment where the presence of hazardous air-borne contaminants require protection from the operators respiratory system, and where self contained breathing apparatus is not essential.



*Your Partner in
Compressed Air Treatment*

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domnick hunter limited
Dukesway, Team Valley Trading Estate,
Gateshead, Tyne and Wear, England NE11 0PZ
Tel: +44 (0)191 402 9000
Telefax: +44 (0)191 482 6296
<http://www.domnickhunter.com>

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