



Hodge Clemco Ltd

Breathing Air Filter Model BAF 10

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Owners Manual

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Machinery Directive

(89/392/EEC amended by 91/368/EEC, 93/44/EEC and 93/68/EEC)

EC DECLARATION OF CONFORMITY

We HODGE CLEMCO LTD declare that the supplied equipment, when installed and used in accordance with the owner's manual provided, conforms with the essential health and safety requirements of the above Directive(s)

Engineering Manager

Handwritten signature in black ink, appearing to read "DM Jate".

Managing director

Handwritten signature in black ink, consisting of stylized initials and a surname.

Maintenance Inspection Contract

In response to numerous requests we are now able to offer a Maintenance Inspection Contract for your Clemco Equipment

These requests have been made by customers who appreciate the benefits of regular inspection; servicing on a planned basis. The remedial work which follows a breakdown or worse, the need for early equipment replacement due to accelerated wear may easily exceed the cost of a Maintenance Inspection Contract. If you would like further details please contact our Customer Service Department on 0114 254 8811

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1.0 INTRODUCTION

1.1. The BAF-10 filter is designed to remove mists (including oil mists), water vapour and particulates down to 0.5 micron in size from breathing air supplied by a breathing air compressor. This unit is equipped to supply filtered air to one air fed blasting helmet.

1.2 Standard fittings include a pressure relief valve, drain cock, one air inlet port and one outlet port with a tap.

WARNING: THIS FILTER UNIT DOES NOT REMOVE CARBON MONOXIDE.

2.0 INSTALLATION INSTRUCTIONS

2.1. Before installing the equipment check that the inlet fitting is fitted with a gasket.

2.2. Ensure that the unit contains a filter element cartridge.

2.3. Check all fittings are securely tightened.

2.4.. Securely connect a breathing air supply hose to the outlet valve at the compressed air source ensuring that any gaskets required are in good condition and correctly positioned.

WARNING: UNDER NO CIRCUMSTANCE MUST THIS FILTER UNIT BE CONNECTED TO AN AIR SUPPLY GREATER THAN 110 P.S.I.

2.5. . Securely take hold of the free end of the air hose, pointing it into a safe area, and gradually open the compressor outlet valve sufficiently to blow out any residual dirt/moisture.

2.6 Close the compressor outlet valve and securely connect the supply hose coupling to the inlet fitting on the filter unit ensuring that any seals/gaskets required are in good condition and correctly positioned.

2.7 Connect the filtered breathing air quality supply hose to the outlet tap on the filter cap and to the belt control of the helmet ensuring a good seal at each connection.

NOTE: Reference should be made to the helmet manufacturer's Owner's Manual to establish the flow and pressure requirements for the helmet system, and the allowance made for pressure drop for the length and bore of the breathing air quality hose.

2.8 Ensure that the drain petcock on the filter unit is closed and turn **ON** the compressed air supply to the filter unit.

2.9 Generally check the unit and all hose connections for leaks and take corrective action if necessary.

2.10..Check that the requirements of air pressure, quality and flow are being achieved at the helmet system. (Refer to helmet manufacturer's instructions).

2.11 Turn OFF the compressed air supply valve at source.

WARNING: IT IS ESSENTIAL THAT ALL CONNECTIONS AND FITTINGS ARE SECURE. ESCAPING AIR CAN BE DANGEROUS AND WILL REDUCE THE EFFICIENCY OF SUPPLY TO THE HELMET SYSTEM.

3.0. OPERATING INSTRUCTIONS

3.1. Ensure that all hose connections are securely connected.

3.2 Check that the petcock drain tap on the base of the filter unit is CLOSED.

3.3. Turn ON the compressed air supply to the filter unit.

WARNING: UNDER NO CIRCUMSTANCES MUST THIS FILTER SYSTEM BE CONNECTED TO AN AIR SUPPLY OF GREATER PRESSURE THAN 110 P.S.I

3.4 Open the petcock to purge any accumulated moisture then securely close it.

NOTE: Dependent on the moisture content of the compressed air supply this operation may be necessary more frequently than the start of each operation. Excessive moisture must not be allowed to build up in the filter as this will affect volume flow and filtration efficiency.

3.5..Open the outlet tap and check that filtered air is entering the helmet.

3.6 Don the breathing air fed helmet system in accordance with the helmet manufacturer's instructions.

3.7 Work can now safely proceed.

IMPORTANT NOTE: SHOULD THE WEARER DETECT ANY OBJECTIONABLE ODOURS OR THERE IS EXCESSIVE MOISTURE IN THE HELMET AIR SUPPLY OR THE PRESSURE FROM THE FILTER UNIT DROPS BELOW ESTABLISHED REQUIRED SETTING, THE FILTER ELEMENT/CARTRIDGE MUST BE REPLACED WITH A NEW ONE IMMEDIATELY. THE LIFE OF THE FILTER ELEMENT WILL DEPEND ON THE CONDITION OF THE AIR SUPPLY (OIL VAPOUR, MOISTURE ETC) AND THE VOLUME OF AIR FILTERED THROUGH IT (SEE SECTION 4)

4.0 MAINTENANCE

WARNING: BEFORE ANY MAINTENANCE WORK IS CARRIED OUT TO THIS EQUIPMENT THE COMPRESSED AIR MUST BE TURNED OFF, THE FILTER UNIT AND THE BREATHING AIR HOSE DEPRESSURISED AND THE COMPRESSED AIR SUPPLY HOSE DISCONNECTED. MAINTENANCE WORK SHOULD ONLY BE CARRIED OUT BY SUITABLY TRAINED AND COMPETENT PERSONNEL

4.1 MAXIMUM 4 HOURS

Open the drain cock and purge the unit of moisture. This operation may be necessary at more frequent intervals depending on the moisture content in the compressed air supply and particularly in humid conditions.

4.2 - 3 MONTHS

Remove the filter element/ cartridge and replace with a new one (observing the flow direction instruction on the element body), by first disconnecting the helmet breathing air line from the filter unit cap and undoing the 6 cap retaining bolts.

4.2.1. Check the condition of the cap seal and replace with new one if there is evidence of deterioration. It is a Health & Safety requirement that breathable air be monitored and recorded at frequent intervals.

BAF 10 PARTS IDENTIFICATION LIST

ITEM	PART NO.	DESCRIPTION	QTY
13	FAS M10 90A	HEX NUT	6
12	FAS M10 81A	SPRING WASHER	6
11	FAS M10 80A	WASHER	6
10	FAS M10 13A	HEX HEAD SETSCREW	6
9	CPF 01909	PRESSURE RELIEF VALVE	1
8	CPF 0021	ELBOW	1
7	MF 2	TAP	2
6	IND 11115	REDUCER	1
5	BAF 10-5	TOP COVER PLATE	1
4	BAF 10-4	COVER PLATE GASKET	1
3	CPF 03547	REPLACEMENT CARTRIDGE	1
2	BW 6	COUPLING	1
1	BAF 10-1	AIR FILTER BODY	1

Fig 1



