

INSTRUCTION MANUAL



AIRFED MASK 2010

FULL FACE PROTECTION MASK




CE




health
PROTECTION


1. IMPORTANT INFORMATIONS

IMPORTANT	
	<p>Before use, adjustment or maintenance, it is important to read this instruction manual very carefully. This manual must be stored in a safe place for any future reference that may be necessary.</p>
<p>The AIRFED PROTECTION MASK KIT is a compressed air fed respirator which, when supplied with breathable quality compressed air, passes it via a belt-mounted regulator and flexible tube into a visor. The regulator is fitted with a replacement nuisance odour filter. These instruction must be read in full before operating the equipment.</p> <p>Failure to follow these instructions completely may result in a decrease in protection or no protection at all.</p> <p>Any misuse or handling other than those indicated in this Instruction Manual is not covered by guarantee. ANEST IWATA disclaims all responsibility for any accident or damage caused by failure to observe the operational and safety procedures as from this manual. In the interest of user friendliness, this manual contains information in a brief and concise form.</p> <p>For any additional information you may require regarding equipment operations, or if any missing parts or any damage during transportation is found, please contact your nearest ANEST IWATA Company (see last cover page).</p>	



2. DESCRIPTION

	<p>WHEN RECEIVING THE AIRFED MASK, MAKE SURE THAT IT HAS NOT BEEN DAMAGED DURING TRANSPORT OR STORAGE.</p>
<p>EQUIPPED WITH: Browguard and visor - Cover for visor - Waistbelt - Pre-set air regulator - Carbon filter - Gun hose fittings 1,25 m</p>	
<p>This visor system conforms to provisional European Standard EN14594:2005. Specification for "Light Duty Compressed Air Breathing Apparatus Incorporating Helmets or Hoods".</p>	

3. APPLICATION

<p>The AIRFED system will provide protection against airborne dusts, mists, gases and vapours. This system offers respiratory protection to class LDH-3 and hence offers a protection factor of up to 200. This means that it can be used in areas where the concentration of contaminant in the workplace air is up to 200 times the Occupational Exposure Limit (O.E.L.)</p>	
	<ul style="list-style-type: none"> - This system should not be used where the level of contaminant exceeds 200 x the O.E.L. or where the contaminant or its level is unknown. - This system should not be used in oxygen deficient atmospheres. - This system should not be used below 0°C.

4. OPERATE

4.1 AIR SUPPLY SPECIFICATION	
	<p>The air supply must be of breathable quality as defined in EN132:1998. The air supply system should be equipped with a pressure relief safety valve.</p>
<ul style="list-style-type: none"> • Input pressure: 5.0 bar • Min. air consumption: 140 l/min • Max. air consumption: 300 l/min 	
4.2 AIR SUPPLY HOSE SPECIFICATION	
	<p>The system should be used with a \varnothing 5/16" supply hose with maximum working pressure of 15 bar and maximum length of 10 m.</p>

4.3 VIZOR AIR SUPPLY SPECIFICATION AND AIR FLOW INDICATOR

MINIMUM DESIGN FLOWRATE: 140 l/min.

An AIR FLOW INDICATOR is positioned in the visor on the left-hand edge of the wearer's field of vision. When the flow of air drops below the minimum design flow rate quoted above, the float will just break the upper edge of the opaque portion of the tube (refer to fig. 1). If a drop in air flow is indicated in this way, perform the checks listed below under "Air flow indicator troubleshooting".

4.4 REGULATOR SPECIFICATION

This regulator has limited adjustment. Do not attempt to over-adjust it. This adjustment allows to the user to maintain sufficient air flow to the visor when using auxiliary attachments and to adjust for comfort.

Every regulator has marked a serial number. The last two figures of the serial number correspond to the year's manufacture.



BEFORE USE:
THE FOLLOWING SHOULD BE PERFORMED IN AN UNCONTAMINATED AREA.

- Check that the air supply pressure and flow available are in accordance with the AIR SUPPLY SPECIFICATION (chap. 4.1)
- Inspect the equipment before use for any signs of damage or deterioration. Do not use the equipment if it appears damaged.
- Fit the belt with the regulator attached around the operator's waist with the regulator on the side of the body and the fitting to take the air from the breathable air supply pointing forward. Lock the buckle and adjust the belt to a comfortable tightness.
- Connect the male end of the main air supply hose to the main air supply. Connect the female end of the main air supply hose to the male inlet of the regulator. (See Figure 2)
- Examine the visor and replace the visor cover if contaminated, by pulling it off and pushing a new visor cover over the two metal studs.
- Connect the visor to the outlet of the regulator ensuring that it is locked in place.
- If spray gun is to be used, connect spray gun to the spray take-off.
- Check the air quality from the visor. If any odour is detectable then the carbon filter should be replaced. (See maintenance section for details on replacing the filter). If an odour is still detected then the visor should not be used. The cause should then be investigated since further prefiltering will probably be required.
- If an accessory such as spray gun or power tool is to be driven from the same compressed air supply tube, ensure that the airflow indicators shows that sufficient flow is being delivered into the visor when the accessory is consuming the maximum airflow requirement.

FIG.1 - AIR FLOW INDICATOR

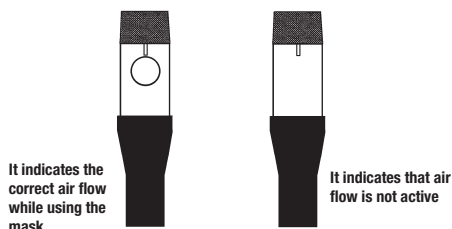
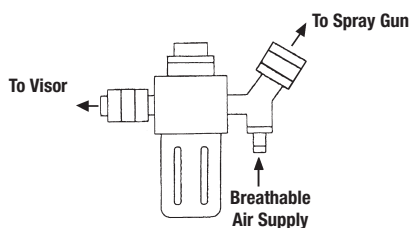


FIG.2 - AIR SUPPLY



4.5 FITTING THE VISOR ASSEMBLY

THE USERS SHOULD BE TRAINED IN CORRECT FITTING OF THE VISOR ASSEMBLY.

- Open out the head harness by rotating the knob on the back of the harness.
- To fit the head harness, adjust the crown strap and the knob at the back of the head harness until the face seal fits around the face when the visor is flipped down.
- The light duty breathing hose should run down the back of the user.

4.6 USE

THE OPERATORS SHOULD BE TRAINED IN THE USE OF THIS EQUIPMENT PRIOR TO ENTERING A HAZARDOUS AREA.

If an oil odour develops during use the quality of the supply and carbon filter should be checked to ensure that the air being fed to the breathing equipment is free from oil mist.

5. SAFETY WARNING**WARNING**


- If the face seal does not fit closely to the face than the stated levels of protection may not be achieved.
- This system should not be used below 0°C.
- This system should not be used in or with oxygen or oxygen enriched air.
- At very high work rates the pressure in the visor may become negative at peak inhalation flow.
- The protection factor may not be achieved with persons with excessive facial hair or glasses.
- The user must ensure the purity and identity of the breathing air supply at all times.
- Adequate protection may be not provided by the apparatus in certain highly toxic atmospheres.
- This apparatus should not be used in area where inhalation of the atmosphere, whilst escaping in the event of failure of the air supply, would cause serious harm to health.
- The air supply system should be equipped with an appropriately rated and adjusted pressure relief safety valve.
- The visor offers impact protection to EN166:2001 with optical class 1. The optical class of the visor may be reduced by adding one or more visor covers.

6. CARE AND MAINTENANCE**IMPORTANT**

ALL MAINTENANCE OPERATIONS SHOULD BE PERFORMED IN AN UNCONTAMINATED AREA.

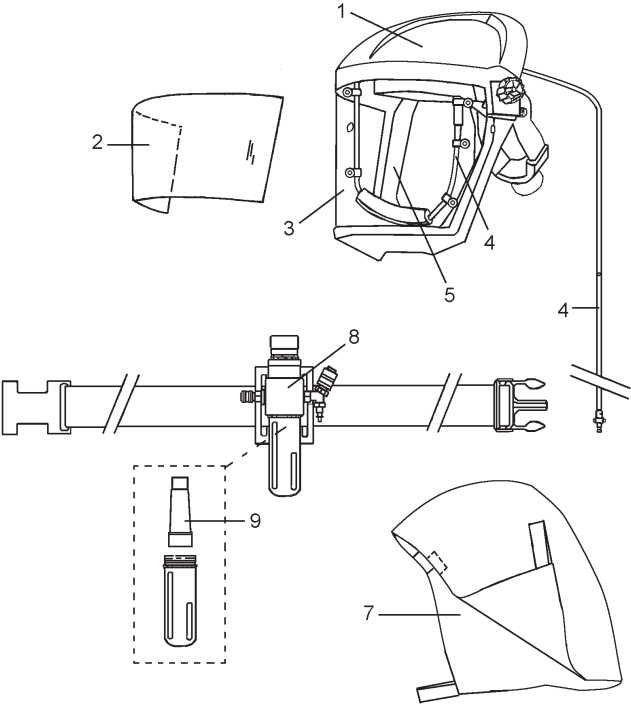
- The carbon filter may be replaced by, (with the air turned off), unscrewing the bowl below the regulator and grasping the filter, firmly twist and pull downwards. The old filter should be disposed of. A new filter is fitted by inserting and twisting upwards. The bowl should then be refitted and screwed tightly to the regulator.
- Visor covers (should be replaced when contamination start to obscure vision by pulling off and pushing a new visor cover over the two metal studs.
- It is recommended that the complete kit of the equipment is inspected on a monthly basis (or before use for occasional user) and any worn or damage components are replaced. Particular attention should be paid to the visor and its to face seal surround.
- The carbon filter shelf life from the date of manufacture. Expiry date should be checked.
- The equipment (other than the carbon filter) has a shelf life of 5 years from manufacturing date.

7. AIR FLOW INDICATOR (TROUBLESHOOTING)


WARNING	
	IF THE AIR FLOW INDICATOR INDICATES A DROP IN AIR FLOW (REFER TO FIG.1), PERFORM THE FOLLOWING CHECK UNDER UNCONTAMINATED CONDITIONS:
<ul style="list-style-type: none">• Ensure that the compressed air supply is turned on at the wall and that input pressure is correctly adjusted.• Check the security of the rigid air flow indicator tube positioned in the visor. If it has come loose from the end of the flexible transparent hose, push it back into place.• Make sure that the transparent breathing hose is not kinked, blocked or holed.• If there is a failure or suspected failure of the regulator, it should be returned to the ANEST IWATA for test, rectification or replacement.	

8. SPARE PARTS


Ref.	Description
1	FULL FACE MASK ASSEMBLY
2	VISOR PEEL OFF COVER
3	CHIN GUARD ASSEMBLY
4	AIR DIFFUSER SET
5	HIGIENE KIT
7	NAPE COVER
8	REGULATOR ASSEMBLY
9	ACTIVE CARBON FILTER



9. CLEANING

WARNING	
	<ul style="list-style-type: none">• To external surfaces of all components may be cleaned using a sponge and warm soapy water and afterwards rinsed and allowed to dry naturally.• Do not immerse any part of the system in water, particularly the regulator system as this may damage it.

10. STORAGE

WARNING	
	<ul style="list-style-type: none">• The equipment should be stored in an uncontaminated environment away from direct sunlight preferably packed in its hygiene box.• Recommended limits of storage are 0 to +35 °C with RH<65%

11. REQUIREMENTS OF CONFORMITY

PERSONAL EYE PROTECTION

Specification:

- **EN166:2001** = Standard to which the product conforms
- **1** = Optical class 1
- **F** = Impact strength at low energy
- **3** = Resistance to chemical splash

RESPIRATORY PROTECTION EQUIPMENT

Specification:

- **EN14594:2005** = Standard to which the product conforms
 - **(LDH-3)** = Class
 - **CE 0086** = N. Certification Body Quality of Production
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