



AIR FED 2020 KIT - USER MANUAL

EN14594:2005



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The **AIR FED 2020** 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. These instructions must be read in full before operating the equipment. Failure to follow these instructions completely may result in a decrease in protection or no protection at all. This air fed system conforms to European Standard **EN14594:2005**.

'Light duty construction compressed air line breathing apparatus incorporating a helmet or hood'.

SELECTION:

The appropriate respiratory protection should be selected for the application in hand. Reference should be made to "Selection Use and Maintenance of Respiratory Protective Devices", available from the HSE.

APPLICATION:

The **AIR FED 2020** system is a class 2A device and will provide protection against airborne dusts, mists, gases and vapours up to a Nominal Protection Factor (NPF) of 50.

Under UK HSE legislation, the **AIR FED 2020** system has an Assigned Protection Factor (APF) of 20.

- This system should not be used where the level of contaminant exceeds 20 x the Workplace Exposure Limit (WEL) 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.

USE:

- Air Supply Specification
- Input pressure: 4 bar (60 PSI) at input to supply hose.
- System consumption: 150 litres/minute (5.3cfm) minimum.

NOTE: The air supply must be of breathable quality as defined in EN12021. The air supply system should be equipped with a pressure relief safety valve.

AIR SUPPLY HOSE SPECIFICATION:

The system should be used with a single 5/16" (8mm) supply hose with maximum working pressure of 15 bar (217 PSI) and maximum length of 15m.

NOTE: The air supply hose is only suitable for use in areas where risk of damage is low and movements of the wearer are limited. It has no additional antistatic or heat resistant properties.

- Visor Air Supply Specification and Air Flow Indicator Minimum Design Flowrate: 150 litres/min (5.3cfm)
- A whistle is positioned on the regulator attached to the adjustable belt. The whistle is designed to make a sound when the air drops below the minimum design flow rate.

REGULATOR SPECIFICATION:

- This regulator has limited adjustment. Do not attempt to over-adjust it.
- This adjustment allows the user to maintain sufficient air flow to the visor when using auxiliary attachments and to adjust for comfort.
- The regulator has an individual serial number. The last two numbers denote the year of 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 above air supply specification.
- 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. 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.
- 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.
- Check the air quality from the visor. If an odour is detectable the cause should then be investigated since further pre-filtering will probably be required.
- If an accessory such as a spray gun or power tool is to be driven from the same compressed air supply tube, ensure that the airflow indicator shows that sufficient flow is being delivered into the visor when the accessory is consuming the maximum airflow requirement.

FITTING THE BROWGUARD ASSEMBLY:

- Open out the head harness by pressing and rotating the wheel ratchet 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.

IN USE:

- If an odour develops during use the quality of the supply air and any upstream in-line filtration should be checked to ensure that the air being fed to the breathing equipment is free from oil mist. If fitted, the regulator filter cartridge may need replacing.

STORAGE:

- The equipment should be stored in an uncontaminated environment away from direct sunlight preferably packed in an enclosure.
- Recommended limits of storage are 0 to +35°C with RH < 65%.

WARNINGS:

- Breathable quality compressed air, as defined in EN12021, must be available.
Regulator filter is for nuisance odours only. It will NOT filter particulates and hazardous vapours.
- The user must ensure the purity and identity of the breathing air supply at all times.
- The air supply system should be equipped with an appropriately rated and adjusted pressure relief safety valve.
- If the face seal does not fit closely to the face then 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.
- Adequate protection may not be provided by the apparatus in certain highly toxic atmospheres.
- This apparatus should not be used in areas where inhalation of the atmosphere, whilst escaping in the event of failure of the air supply, would cause serious harm to health.

CARE AND MAINTENANCE:

All maintenance should be performed in an uncontaminated area.

- Visor covers should be replaced when contaminated.
- The complete kit of equipment should be inspected on a monthly basis (or before use for occasional users) and any worn or damaged components are replaced. Particular attention should be paid to the visor and its face seal.
- The equipment has a five year shelf life from the date of manufacture.
- The equipment should be stored and transported in a way that will not affect its working performance. It should preferably be kept in its original packing at an even ambient temperature and humidity.

CLEANING

- The 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.



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