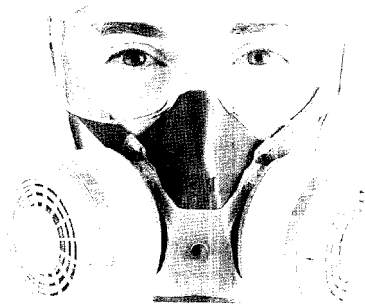




576-08670335

Respirator Factsheet

3M Easi-Air Half Mask Respirator



FEATURES

The 3M Easi-Air half-masks will offer effective respiratory protection where reusable respirators are the chosen option. All filters are interchangeable and stackable giving a wide variety of options to meet many hazard environments. Combine this with these two face sizes and a choice of rubber or silicone facepieces and the Easi-Air respirator represents the most adaptable product currently available. In time, additional filters will be introduced using the same facepiece again adding to its versatility and reducing safety inventory requirements.

Modular design makes COSHH assessment easier. By having one facepiece issued to the individual, yet being adaptable for many filters, only one record card is needed for that employee. The facepiece record card is simply marked up to show the configuration used but the identification number, linked to the employee, does not alter.

In this way, even if you prefer reusable respirators, the 3M modular package can reduce your record keeping requirements.

The Easi-Air range are also designed with the minimum number of components to make maintenance and cleaning an easier task. The twin filter retainers and valves are removable in one piece for easy cleaning whilst the facepiece yoke has a single point attachment. This has a double benefit, it makes removal and refitting easier and evenly spreads the weight and pressure of the facepiece which adds to the comfort of the respirator.

Easi-Air uses a four strap design and cradle head assembly to ensure a good face seal through the best possible fit with maximum wearer comfort. Easi-Air uses patented 3M carbon technology to provide lightweight filters with very low breathing resistance in the gas and vapour range. The particulate filters also have very low breathing resistance such that when used on their own, or in combination with Gas and Vapour filters, the Easi-Air respirator is one of the most comfortable reusable respirators available.

The Easi-Air half-mask can be used with goggles or glasses. All Easi-Air products meet HSE Approved Standards and therefore meet future European Standards assuring consistent usage into the future.

When a filter becomes ineffective, eg. contaminant can be smelt or tasted for gases and vapours or breathing becomes laboured due to build up of particulates, the filter should be disposed of immediately.

TYPICAL INDUSTRY APPLICATIONS

MODEL	HAZARD	INDUSTRY
7151/ 7155	Organic Vapours	Chemical manufacture, lubricant oils storage/depots, inks and dyes manufacture and usage. Refineries, Engineering – cleaning and degreasing, adhesive manufacture, laboratories, shoe manufacture, electronics, paints and varnish manufacture.
7150	Inorganic Gases	Chlorine-based water purification systems.
7152	Acid Gases	Electrolytic processes, eg. plating industries and battery manufacture. Acid cleaning processes, eg. metal pickling, glass finishing, metal etching. Petrochemical, electronics and jewellery industry.
7153	Combined Organic Vapours and Acid Gases	Petroleum industries. Primary metal industries. Metal processors and sheet metal users.
7154	Ammonia/ Methylamine*	Refrigeration, manufacture and maintenance of equipment, agrochemicals.

*3M 7154 may also be used against other organic ammonia derivatives. Please call the 3M Helpline for further information.

A range of dust filters is also available for particulate hazards and can be used with the above gas and vapour filters where combination protection is required.

PERFORMANCE DATA

■ The Easi-Air half-mask respirator meets the requirements of HSE Approved Standard EN141 for gas and vapour filters, EN143 for particulate filters and EN140 for the facepiece. The components involved and categories met are as follows:

MODEL	TYPE CLASS	FILTER COLOUR CODE	PERFORMANCE
7151	A1	Brown	Protects against organic vapours (with boiling points above 65°C) up to 10 times the Occupational Exposure Limit (OEL) or 1000 parts per million (ppm), whichever is the lower provided these concentrations are not immediately dangerous to life or health (IDLH). Should only be used against organic vapours with good warning properties, eg. smell or taste.
7150	B1	Grey	Protects against inorganic gases up to 10 times OEL or 1000 ppm, whichever is the lower provided these concentrations are not immediately dangerous to life or health (IDLH). Should only be used against inorganic gases with good warning properties, eg. smell or taste.
7155	A2	Brown	Protects against organic vapours (with boiling points above 65°C) up to 10 times the OEL or 5000 ppm, whichever is the lower provided these concentrations are not immediately dangerous to life or health (IDLH). Should only be used against organic vapours with good warning properties, eg. smell or taste.
7152	E1	Yellow	Protects against acid gases up to 10 times the OEL or 1000 ppm, whichever is the lower. Levels should not exceed IDLH conditions. Specifically tested against Hydrogen Chloride, Sulphur Dioxide and Chlorine.
7153	AE1	Brown/ Yellow	Combination of 7151 and 7152.
7154	K1	Green	Protects against Ammonia/ Methylamine up to 10 times OEL or 1000 ppm, whichever is the lower. Levels should not exceed IDLH conditions. It may also be used against other organic ammonia derivatives. Please call the 3M Helpline for further information.

MODEL	TYPE CLASS	FILTER COLOUR CODE	PERFORMANCE
7156	P1	White	4 times the Occupational Exposure Limit (Dusts).
7125	P2SL	White	12 times the Occupational Exposure Limit (Dusts). 6 times the Occupational Exposure Limit (Metal Fumes).
7135	P3SL	White	50 times the Occupational Exposure Limit (Dusts). 25 times the Occupational Exposure Limit (Metal Fumes).

■ The 7156, 7125 and 7135 can be used in combination with the gas and vapour filters using the standard retainer and in this instance the protection provided is a combination of that shown above.

■ The 3M Easi-Air half-mask respirator should not be used for escape purposes and should be used in well ventilated areas. (Minimum 19.5% oxygen*).

■ The effective life of the respirator depends upon the nature and concentration of the gas or vapour concerned. Substances should have good warning properties, eg. taste or smell and the respirator should be disposed of immediately once breakthrough is detected.

■ All filters are colour coded for easy identification.

TESTS AND APPROVALS

■ Meets the requirements of HSE Approved Standards:

PRODUCT DESCRIPTION	STANDARD
7200 small/medium rubber facepiece	EN140
7200S small/medium silicone facepiece	EN140
7300 medium/large rubber facepiece	EN140
7300S medium/large silicone facepiece	EN140
7150 B1 Inorganic Gas Filter	EN141
7151 A1 Organic Vapour Filter	EN141
7152 E1 Acid Gas Filter	EN141
7153 AE1 Organic Vapour/ Acid Gas Filter	EN141
7154 K1 Ammonia Filter	EN141
7155 A2 Organic Vapour Filter	EN141
7156 P1 Particulate Filter	EN143
7125 P2SL Particulate Filter	EN143
7135 P3SL Particulate Filter	EN143

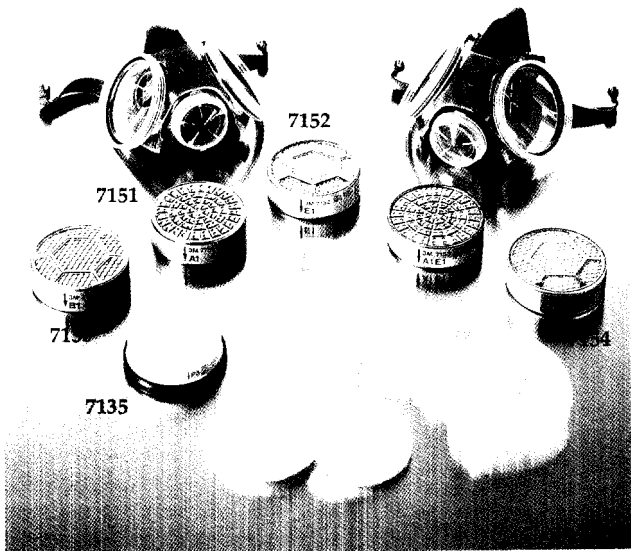
■ Is suitable for use under COSHH, CAW, CLAW and IRR.

*3M definition of minimum oxygen requirement.

RETAINER OPTIONS

The 3M Easi-Air uses three retainers to allow usage in all possible configurations. These are as follows:

RETAINER TYPE	FILTER TYPE	FILTER CLASSIFICATION
7289	7156	P1
7288	7125/7135	P2SL/P3SL
7287	All gas and vapour filters	A1, E1, AE1, K1, A2
7287	All combinations of gas and vapour/particulate filters	A1P1, A1P2, A1P3, B1P1, B1P2, B1P3, A2P1, A2P2, A2P3, E1P1, E1P2, E1P3, AE1P1, AE1P2, AE1P3, K1P1, K1P2, K1P3



MAINTENANCE AND SPARES

Due to the small number of components used in Easi-Air routine maintenance can be conducted with ease. The spares available are as follows:

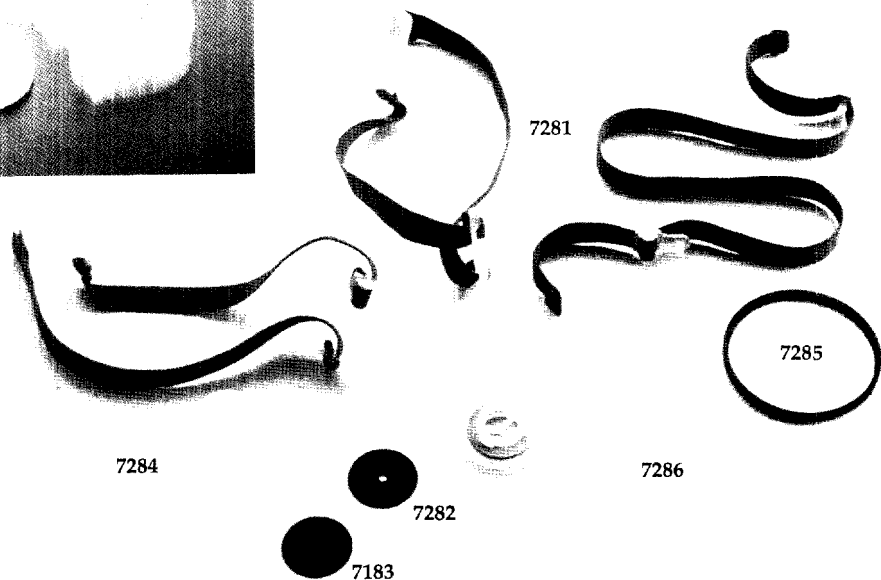
PRODUCT NUMBER	DESCRIPTION
7281	Headstrap assembly
7282	Inhale valve
7183	Exhale valve
7284	Valve seat/guard (exhale)
7286	Filter holder

Clean the respirator after each shift having first removed the filters, straps and other components. Clean all the components, except the filters, in hot water (maximum 50°C) containing a mild detergent.

Do not use detergents containing lanolin or other oil based substances.

Rinse in cold water and dry away from contaminated air.

Once re-assembled check the valves, particularly the exhale valve. If any defective parts are found they must be replaced immediately. Always conduct a positive or negative fit-check every time that the respirator is used.



GUIDANCE ON CORRECT USAGE

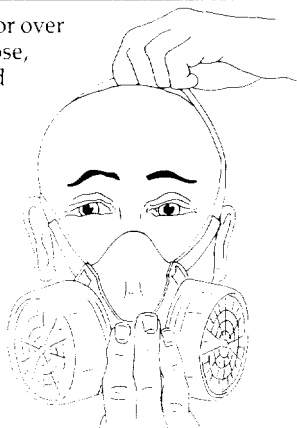
Respiratory Protection is only effective if it is correctly fitted and worn throughout the time when exposed to hazards. Incorrect fitting can reduce respirator effectiveness. Please refer to the Fitting Instructions. (See overleaf).

For advice on 3M product selection, ring the **3M Respiratory Protection Helpline on 0800-525385** (free-of-charge). For literature and general enquiries, ring 0800-212490 (free-of-charge).

FITTING INSTRUCTIONS

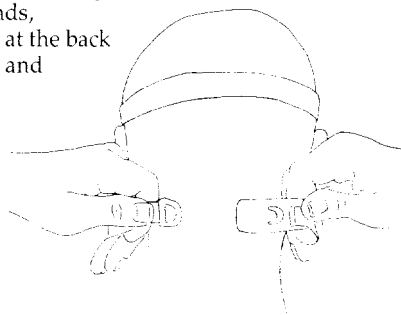
3M Easi-Air Half-Mask Respirator

Place the respirator over the mouth and nose, then pull the head harness over the crown of the head.



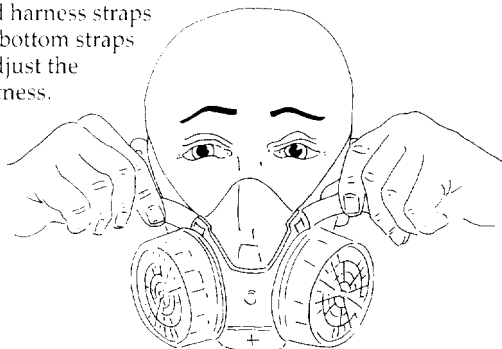
1

Take the bottom straps in both hands, place them at the back of the neck and hook them together.



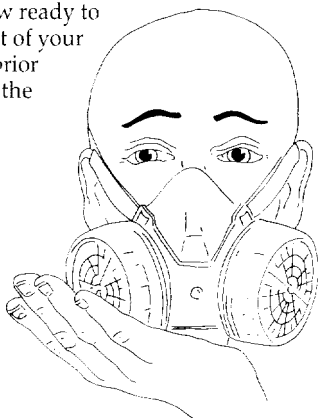
2

Pull the ends of the head harness straps and bottom straps to adjust the tightness.



3

You are now ready to check the fit of your respirator prior to entering the workplace.

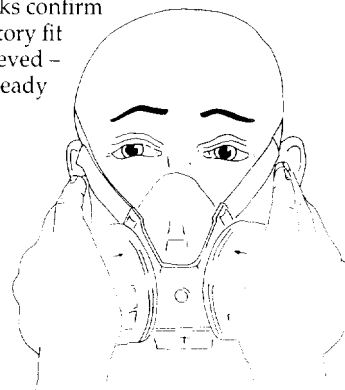


4

Positive Pressure Facefit Check

Place palm of hand over exhalation valve cover and exhale gently. If the facepiece bulges slightly and no air leaks between the face and facepiece are detected, a proper fit has been obtained. If air leakage is detected, reposition the respirator on the face and/or readjust the tension of the straps to eliminate the leakage. Repeat the above steps until a tight seal is obtained.

When fit checks confirm that a satisfactory fit has been achieved – you are now ready to enter the workplace.



5

Negative Pressure Facefit Check

Place the palms of the hands (alternatively, pieces of cardboard can be used to cover the openings) over the open area of the filter cap, inhale gently and hold your breath for five to ten seconds. If the facepiece collapses slightly a proper fit has been obtained. If air leakage is detected, reposition the respirator on the face and/or readjust the tension of the straps to eliminate the leakage. Repeat the above steps until a tight seal is obtained.

Do not use with beards or other facial hair that prevent direct contact between the face and the edge of the respirator. If you cannot achieve a proper fit, do not enter the contaminated area. See your supervisor or call 3M on 0800 525385 (charge-free line).

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