

Technical Datasheet

3M™ Half Facepiece Reusable Respirator 1200

Description

The 3M 1200 Series respirator is a reusable single half facpiece respirator. It is designed to provide purified air to the user in environments containing particulate and/or organic vapor hazard when used with filters and/or cartridges.

Materials

The following materials are used in the production of this product:

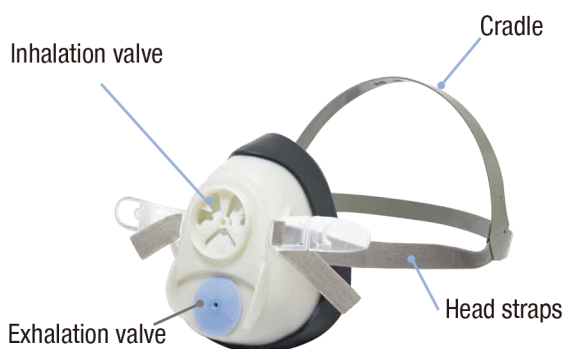
Part	Material
Facepiece (soft)	Thermoplastic Elastomer
Facepiece (hard)	Polypropylene
Head Harness	Polyethylene
Head Strap	Spandex and Polyester
Exhalation Valve	Silicon Rubber
Inhalation Valve	Polyisoprene Rubber
Cartridge Body	Polypropylene
Cartridge Element	Activated and Treated Carbon
Filter Holder	Polypropylene
Filter element	Polypropylene

Standards

The 3M 1200 Series respirator with cartridges and filters meets the requirement of the KMOEL(Korea Ministry of Employment and labor) 2012:83.

Key Features

- Durability: Durable face seal material can withstand repeated donning and doff for prolonged period
- A great value: Affordable price with quality as apromising member of the 3M respirator family.
- Single snap-on cartridge: Lightweight, low profile and simple attachment or detachment in just one step.



Applications

The 3M 1200 Series respirator may be used to help reduce exposure against fine dust and mist when combined with particulate filters listed in this document. Applicable industries may be pharmaceutical, powdered chemicals foundries, constructions, quarring ceramics, refractory materials foundries, agriculture, woodworking and food industry. When connected with a carbon loaded particulate filter, 1200 Series respirator may be appropriate for welding, paper industry, brewing, chemical processing, typical smog and links and dyes.

Organic vapor, organic vapor /particulate or organic vapor/acid gas cartridges may be appropriate for painting, vehicle manufacture, aircraft manufacture and refurbishment, boat building, ink and dye manufacturing and use, adhesive manufacturing and use, paint and varnish manufacturer and resin manufacture and use.

Cartridges and Filters

Cartridge	Image	Approved Protection	Carbon Volume
3301K-55		Organic Vapor ¹⁾	55cc
3301K-100		Organic Vapor ¹⁾	100 cc
3311K-55		Organic Vapor, Particulate (P1)	55cc
3311K-100		Organic Vapor, Particulate (P1)	100 cc

¹⁾ These cartridges were approved for particulate protection (P1) when 7711 particulate prefilter is attached with 774 retainer.

Filters	Image	Approved Protection
1744		Particulate (P2) ²⁾
1744C		Particulate (P2), Nuisance level odor ²⁾
7711(Prefilter)		Particulate (P1) ³⁾

²⁾ 1700 Filter holder is required to attach this filter to 1200 Series respirator.

³⁾ Prefilter has been approved for particulate protection (P1) when it is assembled with cartridge and filter retainer 774.

Filter Holders

Holders	Image	Approved Protection
1700		1744 (P2) and 1744C (P2)
774		3301K-55/100 with 7711



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Inspection, Cleaning and Storage

Inspection Procedure

This respirator must be inspected before each use and at the time of cleaning to ensure it is in good operating condition. Any damaged or defective parts must be replaced before use.

1. Check facepiece for cracks, tears and dirt. Be certain facepiece, especially face seal area, is not distorted.
2. Examine exhalation and inhalation valves for signs of distortion, cracking or tearing.
3. Make sure straps are intact and have good elasticity.
4. Examine all plastic parts for signs of cracking or fatiguing. Ensure filter and cartridge connection parts are in good condition.

Cleaning and Storage

Cleaning is recommended after each use.

3M™ 504 Respirator Cleaning Wipes could be used for the temporary use. However, it is recommended to clean the respirators with the water and detergent completely by the following procedure after use everyday.

⚠ WARNING : Do not clean respirator with solvents. Cleaning with solvents may degrade some respirator components and reduce respirator effectiveness.

1. Remove cartridges, filters and/or breathing tubes. The exhalation valve cover, exhalation and inhalation valves can be also disassembled if necessary.
2. Clean facepiece (excluding filters and cartridges), by immersing in warm cleaning solution, water temperature not to exceed 120°F (49°C), and scrub with soft brush until clean. Add neutral detergent if necessary. Do not use cleaners containing lanolin or other oils.
3. Rinse in fresh, warm water and air dry in non-contaminated atmosphere.
4. The cleaned respirator should be stored away from contaminated areas when not in use.

Fitting Instructions

Assembly Instructions

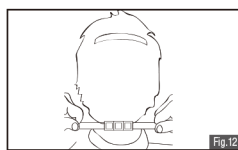
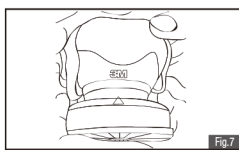
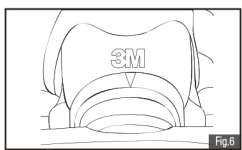
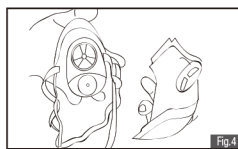
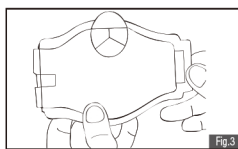
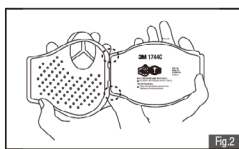
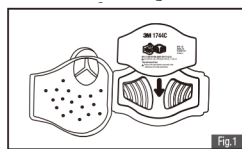
The product should be inspected before each use following the procedures in the Inspections, Cleaning and Storage section.

Filter and Filter Holder Assembly

Check that filter is in good condition and is within its shelf life. The filter assembly has to be away from the contaminated area.

1. Place the filter printed side facing up on the cover of the filter holder. [Fig. 1] Please mind the direction of the filter assembly. Failure of the right direction may result in the inefficiency of the filter performance.

Assembly



2. Align the filter with the notch at the edges of the holder cover. [Fig. 2]
3. Assemble the filter cover and base. [Fig. 3]
4. Align the opening of the filter holder and the inhalation port on the facepiece and push together. [Fig. 4]
5. A snapping sound will ensure that the filter holder is securely assembled. [Fig. 5]
6. Make certain that the alignment mark on the top of the facepiece is aligned with the filter holder. [Fig. 6]

Cartridge Assembly

Check that cartridge is in good condition and is within its shelf life. Select the cartridge with prefilter for use in the environment with dust and mist.

1. Align the cartridge and the inhalation port on the facepiece and push together. [Fig. 7]
2. A snapping sound will ensure that the cartridge is securely assembled. [Fig. 8] Make certain that the alignment mark on the top of the facepiece is aligned with the filter holder.

Fitting Instructions

These fitting instructions MUST be followed each time when respirator is worn.

Donning Respirator

1. Place the headstrap cradle on the back of your head. [Fig. 9]
2. Pull the bottom straps back. [Fig. 10] As you pull, position the facepiece over your mouth and nose. [Fig. 11]
3. Place the bottom straps at the back of the neck and hook them together. Pull the end of the straps to adjust tightness. [Fig. 12]
4. Move facepiece on face to ensure that it is comfortably seated.
5. Perform a negative pressure user seal check.

If you cannot achieve a proper fit, DO NOT enter contaminated area. See your supervisor.

User Fit Checks

Always check the seal of the respirator on your face before entering a contaminated area.

Negative Pressure Fit Check

1. Place the palm of the hand over the front of the filter holder or cartridge. [Fig. 13] Inhale gently. If the facepiece collapses slightly and no air leaks are detected between your face and the facepiece, a proper fit has been obtained.
2. If air leakage is detected, reposition respirator on your face and/or readjust tension of the straps to eliminate leakage. [Fig. 14]
3. Repeat above steps of the fitting instructions until a tight face seal is obtained.

Donning Respirator









Fit Testing

The effectiveness of a respirator will be reduced if it is not fitted properly. Therefore, either qualitative or quantitative fit testing must be conducted prior to the respirator being used. For further information concerning fit testing, contact 3M PSD Technical Service.

- Qualitative Fit Testing: Qualitative Fit Testing (QLFT) with the 3M™ Qualitative Fit Test Apparatus FT-10 or FT-30 can be conducted using any of the approved Particulate filters.
- Quantitative Fit Testing: Quantitative Fit Testing (QNFT) can be conducted using a 3M™ Fit Test Adapter 604

Spare Parts

Product	Image	Description
381		Headband Assembly
182		Inhalation Valve
383		Exhalation Valve
389		Sweat Pad

Product Assurance

In the event any 3M PSD product is found to be defective in material, workmanship, or not in conformation with any express warranty for a specific purpose, 3M's only obligation and your exclusive remedy shall be, at 3M's option, to repair, replace or refund the purchase price of such parts or products upon timely notification thereof and substantiation that the product has been stored, maintained and used in accordance with 3M's written instructions.



⚠ WARNING

It is essential to follow all instructions on the use of this product, including wearing the complete respirator system during all times of exposure in order for the product help protect the wearer

Misuse of respirators may result in overexposure to contaminants and lead to sickness or death. For proper use, see your supervisor, consult the *User Instructions*, or call 3M.

- To help maintain a good seal between the face and the face seal, the respirator face seal must be clear of obstructions at all times. Do not use with beards, facial hair or anything that prevents direct contact between the face and the respirator face seal.
- Do not alter, misuse, or abuse this respirator.



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