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3M™ Ultimate FX Full Facepiece Reusable Respirator, FF-400 Series

Technical Data Sheet

Description

The 3M™ FF-400 Series Facepieces are engineered to deliver maximum comfort and a wide field of view.

Available in three sizes, all facepieces have the 3M bayonet connection system allowing connection to a broad range of twin lightweight filters to protect against gases, vapours and particulates depending on your individual needs.

Features

- Reusable, low maintenance respirator.
- Large polycarbonate lens with a wide field of vision.
- Lightweight, well-balanced with soft silicone nose cup and faceseal for maximum comfort and durability.
- Six point Head harness for a secure, durable fit
- Head harness with Comfort Cradle positions the facepiece more comfortably on the head
- Passive speaking diaphragm for clearer communication
- 3M™ Cool Flow™ valve helps reduce heat and moisture build up inside the facepiece
- Flexible – wide range of gas & vapour and / or particulate filters available
- Twin filter design provides lower breathing resistance, a more balanced fit, and improves field of vision.
- Safe, secure bayonet filter attachment system with bonded silicone gaskets
- 3 sizes (small – FF-401, medium – FF-402, large – FF-403)
- Spectacle kit and a range of spare parts available.
- Weight: Approx. 570 grams.

Standards

These products have been tested and are compliant with the relevant Australian/New Zealand Standard AS/NZS 1716:2012 for use with:

- 6000 Series Gas and Vapour filters,
- 2000 and 5000 Series and 6035, 6038 Particulate filters

Applications

The FF-400 Series Respirators can be used with a variety of different filter options:

Gas and Vapour Filters only: The filters generally protect against either single or multiple contaminant type(s).

- The 3M™ Gas and Vapour Filters 6000 Series filters fit directly onto the respirator.

Particulate filters only: These filters provide protection against solid and non-volatile liquid particles.

- The 3M™ Particulate Disc Filters 2000 series fit directly onto the respirator.
- The 6035 & 6038 are encapsulated P3 filters, which fit directly onto the respirator.

Combination of Gas & Vapour and Particulate filters:

- The **3M™ Particle Filters 5000 Series** can be used with 6000 Series Gas and Vapour filters using 501 retainers excluding the 6035, 6038, 6096, 6098 and 6099.
- The 6096, 6098 and 6099 have Particulate filter media integrated with the Gas and Vapour cartridge.
- The 6038 is an encapsulated particulate filter with a layer of carbon for low capacity gas protection

Specifications

Component	Material
Face seal	Silicone
Nose cup	Silicone/polybutylene terephthalate
Inhalation valve	Silicone/nylon
Exhalation valve	Silicone/polybutylene terephthalate, polycarbonates
Head harness	Silicone
Buckles	Nylon
Head cradle	Acrylonitrile butadiene styrene, or polybutylene terephthalate, polycarbonates
Buttons	Nylon
Lens	Polycarbonate
Exhalation valve cover	Nylon, or polybutylene terephthalate, polycarbonates

Correct Usage

When the FF-400 Series Full Facepiece is fitted with Gas & Vapour Filters:

- 6000 Series gas and vapour filters may be used in concentrations of gases or vapours (types specified by 3M) up to 50x the Workplace Exposure Standard(WES)/ Workplace Exposure Limit (WEL) or 1000ppm (100x ES or 5000ppm for 6055 and 6099) whichever value is lower.
- 6075 offers protection against organic vapours (as above) and 10ppm formaldehyde only.
- 6098 filters please see Instructions for Use or contact 3M for further information.
- 6000 Series gas and vapour filters should not be used to protect the wearer against a gas or vapour that has poor warning properties (smell or taste).

When the 6000 Series Full Facepiece is fitted with Particulate Filters:

- 5925, 2125 or 2128 filters may be used in concentrations of particulates up to 50x WES/WEL.
- 5935, 2135, 2138 or 6035, 6038 may be used in concentrations of particulates up to 100x WES/WEL.
- 2128 and 2138 filters may be used to protect against ozone up to 10x WES/WEL and offers relief from acid gases and organic vapours at nuisance levels i.e. below the WES/WEL.
- 6038 offers protection against 30ppm Hydrogen Fluoride and offers relief from ozone, acid gases and organic vapours at levels below the WES/WEL.

Cleaning and Storage

Cleaning is recommended after each use.

1. Remove cartridges, filters and/or breathing tubes, and nose cup. The exhalation valve cover, exhalation valve assembly, speaking diaphragm, bayonet assembly, lens and faceseal can also be disassembled if necessary.
2. The lens is polycarbonate with an abrasion resistant coating but abrasive cleaners and some solvents may damage it. Avoid using acetone, methyl ethyl ketone, toluene, methylene chloride and other strong solvents.
3. Clean facepiece (excluding filters and cartridges), by immersing in warm cleaning solution, water temperature not to exceed 49°C, and scrub with soft brush until clean. Add neutral detergent if necessary. Do not use cleaners containing lanolin or other oils. Do not autoclave
4. Disinfect facepiece by soaking in a solution of quaternary ammonia disinfectant or sodium hypochlorite 30 mL household bleach in 7.5 L of water, or other disinfectant.
5. Rinse in fresh, warm water and air dry in non-contaminated atmosphere. Do not replace nose cup until facepiece is completely dry.
6. Respirator components must be inspected prior to each use. A respirator with any damaged or deteriorated components should be repaired or discarded.
7. The cleaned respirator should be stored away from contaminated areas when not in use.

Limitations

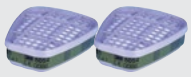
1. These respirators do not supply oxygen. Do not use in oxygen deficient areas.*
2. Do not use for respiratory protection against atmospheric contaminants that have poor warning properties or are unknown or immediately dangerous to life and health (IDLH) or against contaminants, which generate high heats of reaction with chemical filters.
3. Do not misuse, alter, modify or repair this product.
4. Do not use with beards or other facial hair that prevent direct contact between the face and the edge of the respirator.
5. Do not use with unknown concentrations of contaminants.
6. Do not use for escape purposes.
7. Leave the work area immediately and check the integrity of the respirator and replace respirator and/or filters if:
    - Damage has occurred or is apparent.
    - Breathing becomes difficult or increased breathing resistance occurs.
    - Dizziness or other distress occurs.
    - You taste or smell the contaminant or an irritation occurs.
8. Store this device in a sealed container away from contaminated areas when not in use.
9. Use strictly in accordance with respirator and filter user instruction leaflet.

* 3M definition minimum 19.5% by volume oxygen

Particulate Filters

Filter	Image	Standard	Class	Hazard
5925 5935		AS/NZS 1716:2012	P2 P3	Particulates Note: requires 501 retainer to attach to 6000 gas/ vapour cartridges
2125 2135		AS/NZS 1716:2012	P2 P3	Particulates
2128 2138		AS/NZS 1716:2012	GP2 GP3	Particulates, Low vapour pressure (<1.3Pa @ 25 degrees Celsius) organic compounds, Ozone & nuisance levels of Organic Vapours & Acid Gases
6035		AS/NZS 1716:2012	P3	Particulates
6038		AS/NZS 1716:2012	P3HF	Particulates, Hydrogen Fluoride to 30ppm, Nuisance levels of Organic Vapours & Acid Gases

Gas and Vapour Filters

Filter	Image	Standard	Class	Hazard
6051 6055		AS/NZS 1716:2012	A1 A2	Organic Vapours (b.pt. > 65°C)
6054		AS/NZS 1716:2012	K1	Ammonia & derivatives
6057		AS/NZS 1716:2012	ABE1	Combination organic vapours (b.pt. > 65°C), inorganic & acid gases
6059		AS/NZS 1716:2012	ABEK1	Combination organic vapours (b.pt. > 65° C), inorganic & acid gases & Ammonia
6075		AS/NZS 1716:2012	A1 + Formaldehyde	Organic Vapours (b.pt. > 65°C) & Formaldehyde
6096		AS/NZS 1716:2012	A1E1HgP3	Organic Vapours (b.pt. > 65°C) Mercury vapour, Chlorine & Particulates
6098		AS/NZS 1716:2012	AXP3	Low boiling point Organic Vapours (b.pt. < 65°C) & Particulates
6099		AS/NZS 1716:2012	A2B2E2K2HgP3 + Formaldehyde	Organic Vapours (b.pt. > 65°C), Inorganic Gases, Acid Gases, Ammonia, Mercury, Formaldehyde & Particulates.
60926		Performance tested to AS/NZS 1716	A1B1E1K1 Form/Hf P3*	Organic Vapours (b. pt. > 65°C), Inorganice Gases, Phosphine, Mercury vapour, Chlorine, formaldehyde, Hydrogen Flouride & Particulates

Fitting Instructions

Before assigning any respirator to be worn in a contaminated area, we recommend that a qualitative or quantitative fit test be performed before entering the workplace.

Fitting instructions must be followed each time the respirator is worn.

1. Fully loosen all four head straps, and then place the harness at back of head and position respirator over the face.
2. Pull the ends of the four straps to adjust tightness, starting with the neck straps first, then the forehead straps.

Do not over tighten the head straps.

Fit Check

Perform a positive and/or negative pressure fit check each time the respirator is worn.

Positive pressure face fit check.

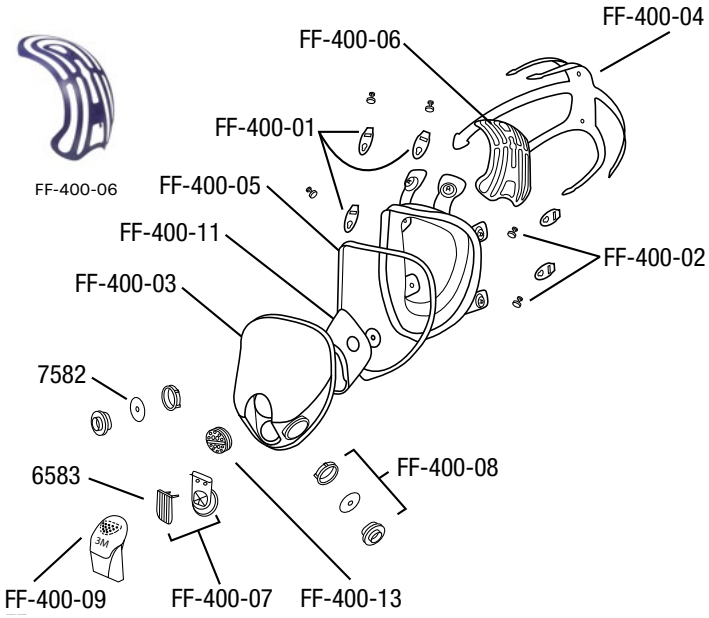
1. Remove the exhalation valve cover by depressing bottom of cover with thumb and sliding cover up, parallel with lens.
2. Place the palm of your hand over the exhalation valve and exhale gently (cover the entire face of the blue valve with the base of the palm).
3. If the facepiece bulges slightly and no air leaks are detected between the face and the respirator, a proper fit has been achieved.
4. If air leakage is detected, reposition the respirator on your face and/or readjust the tension of the straps to eliminate leakage.
5. Repeat the above face fit check (step 2).
6. Replace exhalation valve cover by placing open end at top of exhalation valve assembly, guide tabs underneath valve cover assembly and slide downward until the valve cover snaps in place.
7. If you can not achieve a proper fit, do not enter the contaminated area. See your supervisor

Negative pressure face fit check (3M™ 6035, 6038 / 2000 Series Filters)

1. Push the filter cover down (6035, 6038) or press your thumbs into the central indentation of the filters (2000 series), inhale gently and hold your breath for five or ten seconds.
2. If the respirator collapses slightly, a proper fit has been achieved.
3. If air leakage is detected, reposition the respirator on the face and/or re-adjust the tension of the straps to eliminate the leakage.
4. Repeat the above face fit check.
5. If you cannot achieve a proper fit, do not enter the contaminated area. See your supervisor.

Ordering Information

		Availability			
SAP ID	Legacy ID	AUS	NZ	Model #	Description
7000029940	70071510773	•	•	FF-401	3M™ Ultimate FX Full Facepiece Reusable Respirator FF-401, Small 4 EA/Case
7000002284	70071510807	•	•	FF-402	3M™ Ultimate FX Full Facepiece Reusable Respirator FF-402, Medium 4 EA/Case
7100001847	70071510831	•	•	FF-403	3M™ Ultimate FX Full Facepiece Reusable Respirator FF-403, Large 4 EA/Case



Spare Parts

SAP ID	Legacy ID	Availability AUS	Availability NZ	Model #	Description
7000052734	70071516846	•	•	FF-400-01	3M™ Buckle FF-400-01, 30 EA/Case
7000052735	70071516853	•	•	FF-400-02	3M™ Button FF-400-02, 30 EA/Case
7100009686	70071516861	•	•	FF-400-03	3M™ Lens Replacement FF-400-03, Replacement Part 5 EA/Case
7100003369	70071516879	•	•	FF-400-04	3M™ Head Harness FF-400-04, 5 ea/Case
7000052736	70071516887	•	•	FF-400-05	3M™ Lens Frame Assembly FF-400-05, 5 EA/Case
7000052737	70071516895	•	•	FF-400-06	3M™ Comfort Cradle Head Harness Attachment FF-400-06, 5 EA/Case
7000052738	70071516903	•	•	FF-400-07	3M™ Exhalation Valve Assembly FF-400-07, 5 EA/Case

Important Notice

To the extent permitted by law, 3M shall not be liable for any loss or damage including any loss of business, loss of profits, or for any indirect, special, incidental or consequential loss or damage arising from reliance upon any information herein provided by 3M. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.

SCAN OR CLICK FOR:

QR-CAT-RR
Reusable Respirator Catalogue Section

QR-CAT-FULL
Full Personal Safety Division Catalogue

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