# **3M<sup>™</sup> Reusable Respirators**

# Image: Window Structure Image: Window Structure Image: Window Structure Image: Window Structure Image: Window Structure





### 3M<sup>™</sup> Ultimate FX Full Facepiece Reusable Respirator FF-400 Series

FF 401 (Small) FF 402 (Medium) FF 403 (Large)

Comfortable, durable protection for demanding, X-treme conditions

The lightweight Ultimate FX FF-400 was developed to provide maximum comfort and durability with unique features that make it the optimal choice for a variety of industrial applications:



### 3M<sup>™</sup> Full Facepiece Reusable Respirator 6000 Series

# Reliable, convenient, compatible protection

- Unique center adapter directs exhaled breath and moisture downward, and helps reduce debris from depositing in the valve. Smooth surface allows for quick and easy cleaning
- Large lens provides wide field of view and excellent visibility
- 3M<sup>™</sup> Cool Flow<sup>™</sup> Valve helps provide cool, dry comfort
- Meets requirements of ANSI Z87.1-2010 for high impact (Z87+)
- Lightweight, well-balanced design with silicone faceseal for enhanced comfort and durability
- Available in air purifying respirator (APR), supplied air and powered air purifying respirator (PAPR) modes

6700 (Small) 6800 (Medium) 6900 (Large)



# 3M<sup>™</sup> Full Facepiece Reusable Respirator 7800S Series

7800S-S (Small) 7800S-M (Medium) 7800S-L (Large)

# Designed for durability and protection

- Silicone facepiece enhances fit and improves durability
- Double-flange faceseal and six adjustable straps help provide a secure fit
- Can be used with a passive or electronic clip-on welding lens
- Available in air purifying respirator (APR), supplied air and powered air purifying respirator (PAPR) modes
- FR-7800B (First Responder) version available
  - Butyl rubber seal to minimize permeation
  - CBRN approved with FR-15-CBRN





### 3M<sup>™</sup> Half Facepiece Reusable Respirator 7500 Series

### Easy breathing, comfort and durability

7501 (Small) 7502 (Medium) 7503 (Large)

### Soft Seal Design

- Advanced silicone material provides a softer feel on the face
- Unique adjustment design helps reduce tension and pressure points on the face for unsurpassed comfort

Cool Flow<sup>™</sup> Valve

breathing easier

Valve design helps make

Helps reduce heat and

moisture buildup for

cool, dry comfort

# Adjustable Head Cradle

 Allows wearer to adjust for optimum fit and comfort

### **Dual-mode Head Harness**

 Adjusts easily so user has the option of wearing respirator in either traditional or drop-down mode

### **Unique Exhalation Valve Cover**

- Directs exhaled breath and moisture downward
- Smooth surface allows for quick and easy cleaning
- Helps reduce debris from depositing in valve area

### 3M<sup>™</sup> Rugged Comfort Half Facepiece Reusable Respirator 6500 Series

# Rugged comfort, durability, and slim profile design

### Adjustable Head Harness Assembly

- Optimum fit and comfort with threesize adjustable head cradle
- Long-lasting polyester/spandex straps

### 3M<sup>™</sup> Bayonet Connection

 Compatible with all 3M<sup>™</sup> bayonet-style cartridges and filters

### Quick Latch Drop-Down Mechanism\*

- Easy on and off as you move in and out of contaminated areas
- No need to remove your hard hat or faceshield when lowering or raising your respirator
- \*Available on models 6501QL, 6502QL and 6503QL.

### Valve Cover Design

- Directs exhaled breath and moisture downward
- Easy positive pressure seal check

6501 (Small)

6503 (Large)

6502 (Medium)

6501QL (Small)

6503QL (Large)

6502QL (Medium)

### with a soft but firm faceseal

**Silicone Faceseal** 

• Extended product life due to resilient silicone material

· Provides comfort and stability

- Our lightest silicone facepiece
- Keeps its shape in high-heat environments

### Cool Flow<sup>™</sup> Valve

- Enhanced comfort by reducing heat and moisture
- Easier breathing with unique valve design

### 4

### 3M<sup>™</sup> Half Facepiece **Reusable Respirator 6000 Series**

# Compatible, convenient respiratory protection

- Facepiece is made from soft, lightweight material
- Available with a standard or drop-down head harness option. Drop-down model allows wearers to lower the respirator without removing hard hat or faceshield
- Head harness assembly and spare parts are available



Standard

6100 (Small) 6200 (Medium) 6300 (Large)



Drop-down

6100DD (Small) 6200DD (Medium) 6300DD (Large)



### 3M<sup>™</sup> Half Facepiece **Disposable Respirator 5000 Series**

# Balanced design, disposable convenience

- · Easy to use and convenient
- Pre-assembled with permanently attached cartridges; no maintenance necessary
- Facepiece is made from soft, lightweight material
- Ideally suited for:
  - Intermittent respirator use
  - Plant shutdowns and turnarounds
  - Dirty applications where respirators wear out or become difficult to clean in a short time

5101 Organic Vapor Respirator (Small) 5201 Organic Vapor Respirator (Medium) 5301 Organic Vapor Respirator (Large)

5103 Organic Vapor/Acid Gas Respirator (Small) 5203 Organic Vapor/Acid Gas Respirator (Medium) 5303 Organic Vapor/Acid Gas Respirator (Large)

51P71 P95 Paint Spray/Pesticide Assembly (Small) 52P71 P95 Paint Spray/Pesticide Assembly (Medium) 53P71 P95 Paint Spray/Pesticide Assembly (Large)





# **Identify the Hazards**

| Applications and Industries                    | Potential Hazards            | Cartridge/Filter Options* |  |  |
|--|------------------------------|---------------------------|--|--|
| Spray Painting, Varnishing, Staining & Coating | Solvent-based                | 0V/P95                    |  |  |
|  | Water-based Latex            | Nuisance OV**/P95         |  |  |
| Sanding & Grinding                             | Particulate                  | N95                       |  |  |
| Welding  | Weld Fume                    | N95                       |  |  |
|  | Stainless Steel & Galvanized | Nuisance 0V**/P95         |  |  |
| Abatement                                      | Lead & Asbestos              | P100                      |  |  |
|  | Mold                         | N95 - P100/ Nuisance OV** |  |  |
| Cement Work                                    | Silica/Dust                  | N95                       |  |  |
| Cleaning & Janitorial                          | Bleach                       | AG/P95                    |  |  |
|  | Ammonia                      | AM/MA/P95                 |  |  |
|  | General Cleaning Products    | OV/P95                    |  |  |
| Agriculture                                    | Pesticides & Insecticides    | 0V/AG/P95 - P100          |  |  |
| Construction                                   | Particulate                  | N95                       |  |  |
| Manufacturing                                  | Solvents                     | OV                        |  |  |
|  | Particulate                  | N95                       |  |  |
| Pharmaceutical Manufacturing                   | Particulate                  | N95/P100                  |  |  |
| Chemical Manufacturing                         | Sulfur Dioxide, Chlorine     | AG/P95                    |  |  |
|  | Ammonia                      | AM/MA/P95                 |  |  |

\*Respirator facepiece or system must be chosen based on the contaminant, airborne concentration and the necessary assigned protection factor.

\*\*Nuisance level refers to concentrations below the Occupational Exposure Limit (OEL) or other applicable government regulations, whichever is lower. If you are uncertain of the concentration levels of contaminants or recommended levels of respiratory protection, contact the 3M Technical Service Helpline. This guide is only an outline. It should not be used as the only means for selecting a respirator. Details regarding performance and limitations are set out on the respirator package and *User Instructions*. Before using any of these respirators, the wearer must read and understand the User Instructions for each product.

RA

|   | 52   | 10      | AR   | A    |         |        | <b>M</b> |
|---|------|---------|------|------|---------|--------|----------|
| Select the Right Respirator                         | 5000 | 6000 HF | 6500 | 7500 | 6000 FF | FF-400 | 7800S    |
| Enhanced Durability                                 |      |         |      |      |         |        | •        |
| Maintenance Free                                    | •    |         |      |      |         |        |          |
| Enhanced Comfort                                    |      |         | •    |      |         |        |          |
| Drop-down Feature                                   |      | *       | **   |      |         |        |          |
| 3M <sup>™</sup> Cool Flow <sup>™</sup> Valve        |      |         | •    |      |         |        |          |
| Compatible with 3M <sup>™</sup> Supplied Air System |      |         |      |      |         |        | •        |
| Compatible with 3M <sup>™</sup> PAPR Systems        |      |         |      |      |         |        | •        |
| Eye Protection                                      |      |         |      |      | •       | •      | •        |
| Speaking Diaphragm                                  |      |         |      |      |         |        | •        |
| Accessories   |      |         |      |      | •       |        | •        |
| Spare Parts   |      |         |      |      |         |        | •        |
| Six-point Head Harness                              |      |         |      |      |         |        | •        |
| Silicone Faceseal                                   |      |         | •    |      |         |        | •        |
| Compatible with Welding Shield                      |      |         |      |      |         |        |          |
| Clip-on Welding Shield                              |      |         |      |      |         |        | •        |

\*6000DD Version.

# Find a Combination that Works Best for You







6500 Series



7500 Series



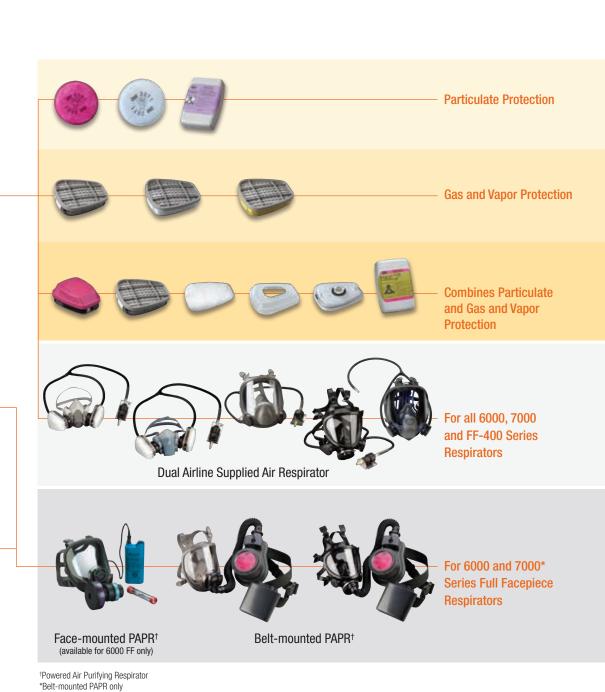
6000 Series



Ultimate FX FF-400



7800 Series



7

# 3M<sup>™</sup> Particulate Filters and Gas/Vapor Cartridges

All 3M Particulate Filters and Gas/Vapor Cartridges can be used interchangeably with 3M<sup>™</sup> Reusable Respirators 6000, 6500, 7000 and FF-400 Series.

| 3M <sup>™</sup> Particulate Filters 20   | 00 Series  |                         |   |  |  |
|--|--|-------------------------|---|--|--|
|  |  | Part Number             | Description   |  |  |
|  | <ul> <li>Lightweight and easy to<br/>breathe through</li> </ul>                                  | 2071                    | Particulate Filter, P95   |  |  |
|  | Assortment of filters available  | 2076HF                  | Particulate Filter, Hydrogen Fluoride/P95, with Nuisance Level Acid Gas Relief*                           |  |  |
|  | for a wide range of applications   | 2078                    | Particulate Filter, P95, with Nuisance Level Organic Vapor/Acid Gas Relief*                               |  |  |
| and and and  | Easier breathing through new<br>3-layer advanced Electret Filter<br>Media in 2200 Series Filters | 2091                    | Particulate Filter, P100  |  |  |
| and and  |  | 2096                    | Particulate Filter, P100, with Nuisance Level Acid Gas Relief*  |  |  |
|  |  | 2097                    | Particulate Filter, P100, with Nuisance Level Organic Vapor Relief*                                       |  |  |
|  |  | 2291                    | Advanced Particulate Filter, P100   |  |  |
|  |  | 2296                    | Advanced Particulate Filter, P100, with Nuisance Level Acid Gas Relief*                                   |  |  |
|  |  | 2297                    | Advanced Particulate Filter, P100, with Nuisance Level Organic Vapor Relief*                              |  |  |
| 3M <sup>™</sup> Particulate Filter 709   | 93, P100   |                         |   |  |  |
| <ul> <li>Unique, spring-loaded filter cover design<br/>simplifies negative pressure user seal checks</li> <li>Swept-back design provides enhanced field<br/>of view and greater comfort</li> <li>7093C offers a lightweight, low profile design<br/>that combines P100 filtration with carbon-loaded<br/>features found in heavier combination cartridge products</li> </ul>   |  | 7093                    | Particulate Filter, P100  |  |  |
|  |  | 7093B                   | Particulate Filter, P100, Bulk  |  |  |
|  |  | 7093C                   | Cartridge/Filter, Hydrogen Fluoride, P100 with Nuisance Level Organic<br>Vapor and Acid Gas Relief*       |  |  |
| 3M <sup>™</sup> Gas/Vapor Cartridges   | s 6000 Series  |                         |   |  |  |
|  |  | 6001                    | Cartridge, Organic Vapor  |  |  |
|  | Low-profile design helps<br>maintain good field of vision  | 6002                    | Cartridge, Acid Gas**   |  |  |
|  | Full range of cartridges to meet   | 6003                    | Cartridge, Organic Vapor/Acid Gas**   |  |  |
|  | your needs   | 6004                    | Cartridge, Ammonia/Methylamine  |  |  |
|  |  | 6005                    | Cartridge, Formaldehyde/Organic Vapor   |  |  |
| ( and the second |  | 6006                    | Cartridge, Multi Gas/Vapor**  |  |  |
|  |  | 6009                    | Cartridge, Mercury Vapor or Chlorine  |  |  |
| 3M <sup>™</sup> Combination Cartridg   | es/P100 Particulate Filters 6000   | Series                  |   |  |  |
|  |  | 60921 📉                 | Cartridge/Filter, Organic Vapor/P100  |  |  |
|  | <ul> <li>Particulate filter is permanently<br/>attached to cartridge for easy,</li> </ul>        | 60922 📉                 | Cartridge/Filter, Acid Gas/P100**   |  |  |
|  | Unique design for enhanced     comfort and visibility  | 60923 📉                 | Cartridge/Filter, Organic Vapor/Acid Gas/P100**   |  |  |
|  |  | 60924 📉                 | Cartridge/Filter, Ammonia/Methylamine/P100  |  |  |
|  |  | 60925 📉                 | Cartridge/Filter, Formaldehyde/Organic Vapor/P100   |  |  |
|  |  | 60926 📉                 | Cartridge/Filter, Multi-Gas/Vapor/P100**  |  |  |
|  |  | 60928 📃                 | Cartridge/Filter, Organic Vapor/Acid Gas/P100**†  |  |  |
|  |  | 60929 📉                 | Cartridge/Filter, Mercury Vapor/Chlorine Gas/P100   |  |  |
|  | * 3M recommended for relief against nuisance levels of   | of organic vapors and a | '<br>cid gases. Nuisance level organic vapor and acid gas refers to concentrations not exceeding OSHA PEL |  |  |

3M recommended for relief against nuisance levels of organic vapors and acid gases. Nuisance level organic vapor and acid gas refers to concentrations not exceeding OSHA PEL or applicable government occupational exposure limits, whichever is lower. Do not use for respiratory protection against acid gases or organic vapors (except hydrogen fluoride).

\*\* Reminder: These cartridges are approved for respiratory protection from hydrogen sulfide gas up to 10 times the permissible exposure limit (PEL) with half facepiece respirators and full facepiece respirators when qualitatively fit tested, or up to less than 300 parts per million (ppm) with full facepiece respirators when quantitatively fit tested or according to specific OSHA standards or applicable government regulations, whichever is lower. 300 ppm is the concentration considered Immediately Dangerous to Life or Health (IDLH) for hydrogen sulfide.

<sup>1</sup>As recommended by the California Department of Pesticide Regulation No. 01-009-Methyl Bromide Field Funigation. 3M recommended for use against radioiodine and methylbromide. Note: not NIOSH approved for methylbromide or radioiodine



These respirators help protect against certain airborne contaminants. **Misuse may result in sickness or death.** For proper use, the wearer must read and understand *User* 

- Instructions provided as a part of product packaging, see supervisor, or call 3M PSD Technical Service. Time use limitations may apply. Important Before using these respirators, you must determine the following:
- 1. The type of contaminant(s) for which the respirator is being selected. 2. The concentration level of contaminant(s).

Whether the respirator can be properly fitted on the wearer's face. All respirator instructions, warnings and use and time limitations must also be read and understood by the wearer before use.

Before use of these respirators, a written respiratory protection program must be implemented, meeting all the requirements of OSHA 29 CFR 1910.134, including training and fit testing.

Learn more about masks and respirators we have.

