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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



3M[™] Reusable Respirators

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





3M[™] 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[™] 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[™] Cool Flow[™] 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[™] 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[™] 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[™] 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[™] 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[™] Bayonet Connection

 Compatible with all 3M[™] 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

Silicone Faceseal

- · Provides comfort and stability with a soft but firm faceseal
- Extended product life due to resilient silicone material
- Our lightest silicone facepiece
- Keeps its shape in high-heat environments

Cool Flow[™] Valve

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

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6501 (Small) 6502 (Medium)

6501QL (Small) 6502QL (Medium) 6503QL (Large)





3M[™] 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[™] 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 0V**/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	0V/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 at 1-800-243-4630. 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.

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Select the Right Respirator	5000	6000 HF	6500	7500	6000 FF	FF-400	7800S
Enhanced Durability							
Maintenance Free	•						
Enhanced Comfort			•				
Drop-down Feature		-*	* *	•			
3M [™] Cool Flow [™] Valve			•	•	•	•	
Compatible with 3M [™] Supplied Air System							•
Compatible with 3M [™] 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



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3M[™] Particulate Filters and Gas/Vapor Cartridges

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

3M [™] Particulate Filters 20	000 Series					
		Part Number	Description			
۱	 Lightweight and easy to breathe through 	2071	Particulate Filter, P95			
	Assortment of filters available	2076HF	Particulate Filter, Hydrogen Fluoride/P95, with Nuisance Level Acid Gas R			
	for a wide range of applications	2078	Particulate Filter, P95, with Nuisance Level Organic Vapor/Acid Gas Rel			
112 (2512) (2514	Easier breathing through new 3-layer advanced Electret Filter	2091	2091 Particulate Filter, P100			
The said and	Media in 2200 Series Filters	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 Relie			
3M [™] Particulate Filter 70	93, P100					
Unique, spring-loaded filter cover of	lesian	7093	Particulate Filter, P100			
simplifies negative pressure user s						
 Swept-back design provides enhar of view and greater comfort 	nced field	7093B	Particulate Filter, P100, Bulk			
 7093C offers a lightweight, low pro 	ofile design	70000	Centrides (Filter Hudroson Flueride D100 with Miderson Lawel Commit			
that combines P100 filtration with	carbon-loaded	7093C	Cartridge/Filter, Hydrogen Fluoride, P100 with Nuisance Level Organic Vapor and Acid Gas Relief*			
features found in heavier combinat	ion cartridge products					
3M [™] Gas/Vapor Cartridge	s 6000 Series					
		6001	Cartridge, Organic Vapor			
Alter Alter	 Low-profile design helps 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			
A land		6005	Cartridge, Formaldehyde/Organic Vapor			
and strend and		6006	Cartridge, Multi Gas/Vapor**			
		6009	Cartridge, Mercury Vapor or Chlorine			
3M [™] Combination Cartrid	ges/P100 Particulate Filters 600	0 Series				
	 Particulate filter is permanently attached to cartridge for easy, 	60921 📉	Cartridge/Filter, Organic Vapor/P100			
		60922 🔫	Cartridge/Filter, Acid Gas/P100**			
	one-step assembly	60923 📉	Cartridge/Filter, Organic Vapor/Acid Gas/P100**			
	 Unique design for enhanced comfort and visibility 	60924 📉	Cartridge/Filter, Ammonia/Methylamine/P100			
		60925	Cartridge/Filter, Formaldehyde/Organic Vapor/P100			
		60926	Cartridge/Filter, Multi-Gas/Vapor/P100**			
20		60928	Cartridge/Filter, Organic Vapor/Acid Gas/P100**†			
		60929	Cartridge/Filter, Mercury Vapor/Chlorine Gas/P100			
	or applicable government occupational exposure li ** Reminder: These cartridges are approved for res and full facepiece respirators when qualitatively f	mits, whichever is lower. piratory protection from it tested, or up to less th	acid gases. Nuisance level organic vapor and acid gas refers to concentrations not exceeding OSHA PE Do not use for respiratory protection against acid gases or organic vapors (except hydrogen fluoride). hydrogen sulfide gas up to 10 times the permissible exposure limit (PEL) with half facepiece respirat an 300 parts per million (ppm) with full facepiece respirators when quantitatively fit tested or ns, whichever is lower. 300 ppm is the concentration considered Immediately Dangerous to Life or			
For More Information In the United States, contact:	[†] As recommended by the California Department of methylbromide. Note: not NIOSH approved for me		b. 01-009-Methyl Bromide Field Furnigation. 3M recommended for use against radioiodine and ne.			
Technical Service	Customer Service	Internet				
1-800-243-4630	1-800-328-1667	www.3M.com/	PPESafety			
In Canada, contact:						
Technical Service	3M Canada Customer Care	Internet	6.L.			
1-800-267-4414 For other 3M products:	1-800-364-3577	www.3M.ca/safety				
Technical Service						
1-800-3M-HELPS			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			
284	3M, Scotchgard and Cool Flow are trademarks of 3M Company,	Instructions pt 1-800-243-4	ovided as a part of product packaging, see supervisor, or call 3M PSD Technical Service, 630. Time use limitations may apply.			



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1-800-243-4630. Time use limitations may apply.
 Important — Before using these respirators, you must determine the following:

 The type of contaminant(s) for which the respirator is being selected.
 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.