



# Selection of Respiratory Protection



- The physical configuration of the jobsite
- Worker medical condition
- Worker comfort
- Chemical and its physical properties
- Toxicity and concentration of the hazardous material
- Oxygen Deficiency
- Extreme Temperature
- Other selection factors such as nature and extent of the hazard, working rate, mobility, work requirements and conditions, as well as the limitations and characteristics of the available respirators

## Types of Respirators:

- Particulate respirators (Disposable)
- Gas and vapor respirators (Half and Full face piece)
- Powered air-purifying respirator (PAPR)
- Air supplied respirator (Airline System)
- Self-contained breathing apparatus (SCBA)



## QB N95 Particulate Respirator

QB-MR-910I-N95 / QB-MR-910IS-N95

- Comfortable to wear and easy to use
- Lightweight and therefore promotes greater workers' comfort and longer wearing time
- Provides an economical way of protection
- Two sizes available to ensure facial fit
- Adjustable nose clip to provide a custom fit and secure seal
- Reduces the potential for eyewear fogging
- Provides a 95% filter efficiency when subjected to a 0.3µm particle challenge
- Collapse resistant shell construction to withstands hot and humid conditions
- State-of-the-art filter media provides low resistant filtration
- Approved to NIOSH 42 CFR Part 84 Standards



## QB N95 Particulate Respirator

QB-910F-N95

- No metallic components
- Filters have low breathing resistance for more comfortable wear
- Designed with ultimate soft inner layer that provides the most intimate touch to the face
- Adjustable nose clip to provide a custom fit and secure seal
- Adjustable looping head straps provides a convenient way for donning and doffing. The head strap loop design allows the mask to be hung around the neck when not in use
- Reduces the potential for eyewear fogging
- Provides 95% filter efficiency when subjected to a 3µm particle challenge
- Soft pre-shaped nose cushions ensures excellent fit for various facial sizes
- Approved to NIOSH 42 CFR Part 84 Standards



## QB 3-Dimensional Flat Fold Face Mask

QB-NV-SQ-3K ( Kids ) / QB-NV-SQ-3N ( Adults )

- Three-dimensional design
- Design customised to allow better fitting and create space for easy breathing
- 3-layer filter system increases ease of breathing
- Comfortable and long lasting flexible ear loop
- Ear loop material does not cause skin irritation and itchiness
- Air sealed packing enhances hygiene and performance



## QB Transparent Mask

QB-DB-TS02-W

### The Innovative Sanitary Mask for safety and hygiene

- Visible smiling face expression
- Hygienic
- Pleasant fashionable appearance
- Increase organization image
- Eliminate unpleasant bad breath
- Reduce food contamination
- Washable & reusable
- No breathing resistant





## 8812, P1



- Comfort Respirator - Respiratory protection against fine Dusts
- 3M Cool Flow valve reduces heat build up to offer comfortable protection, particularly in hot and humid conditions
- Reliable, effective protection against fine particulates
- Durable collapse resistant inner shell
- Excellent fit over a wide range of face sizes provided by convex shape, nose clip and twin-strap design
- Comfortable, light weight off-the-face design
- Standard: EN149:2001 FFP1
- Approval: CE Marked
- Maximum use level: Assigned Protection
- Factor: 4 x OEL (Nominal Protection Factor 4 x OEL)

## 8822, P2



- P2 rated filter to AS/NZS1716
- Lightweight construction promotes greater comfort and contributes to increased wear time
- The cupped shape, twin strap design and adjustable aluminium nose clip provides a custom fit with fewer pressure points and a secure face seal over a range of face sizes
- Patented one-way valve offers easy exhalation and cooler, drier comfort
- For use against mechanically generated particulates and thermally generated fumes and smokes
- All filter design provides economical protection with no cleaning required or spare parts to maintain

## 9300 Series Respirators

The advanced 3 panel design of the 3M 9300 series respirators means they are easier to breathe through and not prone to collapse. Being foldable they offer you more convenience than traditional cup shaped respirators. Its features include a headband material which keeps a near constant tension, reducing strap pressure and ensuring a secure fit to the face for a range of head sizes. The 3M™Cool Flow™

## 9310, FFP1



- EN149, FFP1, FFP2 and FFP3 protection
- Soft outer fabric, adjustable nose clip
- Soft, sweat absorbent foam above the nose
- Even-tensioned head straps which eliminate strap pressure
- Unique and highly efficient Cool Flow valves to reduce heat build up
- Low profile design to guarantee good field of vision
- Easier to talk through

## 9312, FFP1



## 9320, FFP2



## 9322, FFP2



## 9332, FFP3

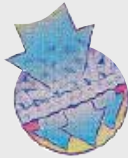




## Unique Technologies



**Cool Flow™ Exhalation Valve**  
Patented one-way valve for easy exhalation and cool, dry comfort



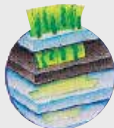
**Advance Electret Media**  
Patented filter media with electrostatically charged micro fibers help make breathing easier and cooler



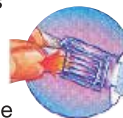
**Welding web**  
Unique filter media incorporating protective layers designed to be flame resistant as demonstrated per ASTM D2859-96 (Not a substitute for a faceshield)



**M-noseclip**  
Patented noseclip adjusts easily for fewer pressure points and greater comfort



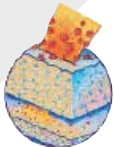
**Carbon filter material**  
Carbon filter media provides relief against odors, vapors and other gaseous contaminants for greater wearer comfort. For nuisance level relief only



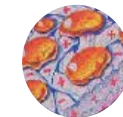
**Adjustable buckle straps**  
A single tug helps provide a comfortable, secure fit



**Faceseal**  
Soft and secure, conforms closely to face additional comfort



**Cake-resistant filter media**  
Patented filter media with specifically designed filter layers for welding applications provide longer respirator life and easier breathing



**P-series filter**  
Patented Advanced Electret Media, appropriate for prolonged use in both oil and non-oil containing environments

<sup>1</sup>3M recommended for relief against nuisance level acid gas or organic vapors. Nuisance levels are less than OSHA PEL or applicable government occupational exposure limits, whichever is lower

## Comfort Unvalved Respirators



3M-9210

### 9210 (N95)

A breakthrough in comfort and convenience. This three-panel respirator with innovative design helps provide comfortable, reliable worker protection against non-oil based particles



3M-8210

### 8210 (N95)

Features Advanced Electret Media (AEM), welded strap attachment, soft nose foam and adjustable noseclip to help provide a custom fit and secure seal



3M-9105 / regular  
3M-9105S / small

### 9105 / 9105S (N95)

Innovative flat fold respirator designed for comfort and convenience of storage. Economical design is suited for the light duty users



3M-8110S

### 8110s (N95)

Designed for people with smaller faces. It helps provide worker protection against certain non-oil based particles. It is comfortable and easy to use which helps promote greater worker acceptance and increased wear time





## Comfort Unvalved Respirators ◀◀◀◀



3M-8511

8511 (N95)

Is uniquely designed to help provide protection against certain non-oil based particles. It is ideally suited for work settings that involve heat, humidity, or long periods of wear



3M-8211

8211 (N95)

Offers all the great features of the 3M™ Particulate Respirator 8211, plus a comfortable foam face seal. It is uniquely designed to help provide protection against certain non-oil based particles.



3M-9211

9211 (N95)

This three-panel respirator with innovative design is ideally suited for work settings that involve heat, humidity, or long periods of wear



## Comfort Plus - 100 Class Respirators ◀◀◀◀



3M-8233

8233 (N100)

Is well suited for those who want NIOSH's highest rated filtration efficiency in a maintenance free respirator. It provides a minimum filter efficiency of 99.97% against non-oil based particles



3M-8293

8293 (P100)

Is well suited for those who want NIOSH's highest rated filtration efficiency in a maintenance free respirator. It provides a minimum filter efficiency of 99.97% against oil base particles



## Welding & Metal Pouring ◀◀◀◀



3M-8214

8214 (N95)

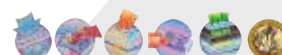
Is designed for applications such as welding, soldering and other operations where metal fumes may be present including those with ozone\* and nuisance level organic vapors\*\*



3M-8514

8514 (N95)

Is designed for applications such as welding, soldering and other operations where metal fumes are present including those with ozone\* and nuisance level organic vapors\*\*



3M-8515

8515 (N95)

An economical option for welders featuring the 3M™ Cool Flow™ Exhalation Valve, adjustable M-noseclip, and braided headband to help provide a custom fit and secure seal



3M-8212

8212 (N95)

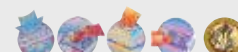
Features the 3M™ Cool Flow™ Exhalation Valve, cake-resistant filter media, a comfortable foam face seal and fully adjustable straps



3M-8512

8512 (N95)

Features the 3M™ Cool Flow™ Exhalation Valve, cake-resistant filter media, nose foam and fully adjustable nose clip and straps



\*3M recommended for ozone protection up to 10X OSHA PEL. Not NIOSH approved ozone

\*\*3M recommended for relief against nuisance level acid gas or organic vapors. Nuisance levels are less than OSHA PEL or applicable government occupational exposure limits, whichever is lower

# RESPIRATORY PROTECTION



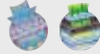
## Unvalved Specialty Respirators ◀◀◀◀



3M-8247

8247 (R95)

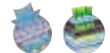
Is designed to help provide comfortable protection against certain oil and non-oil based particles including those present with nuisance levels of organic vapors\*, such as solvents, degreasers and resins



3M-8246

8246 (R95)

Helps provide protection against certain oil and non-oil based particles including those present with nuisance levels of acid gases\* such as sulphur dioxide, hydrogen fluoride, and/or chlorine



## Valved Specialty Respirators ◀◀◀◀



3M-8577

8577 (P95)

Is designed to help provide comfortable, reliable worker protection against certain oil and non-oil based particles including those present with nuisance levels of organic vapors\*, such as solvents, degreasers and resins



3M-8516

8516 (N95)

Is designed for the aluminium industry. It helps provide protection against certain non-oil based particles including those present with nuisance levels of acid gases\* such as sulphur dioxide, hydrogen fluoride, and/or chlorine



3M-8271

8271 (P95)

Combines P-series versatility with exceptional comfort and fit. It is an excellent choice for those who have work environments that may contain oil aerosols



3M-8576

8576 (P95)

Is designed to provide comfortable, reliable worker protection against certain oil and non-oil based particles including those present with nuisance levels of acid gases\*, such as sulphur dioxide, hydrogen fluoride, and/or chlorine



## Fluid resistant respirators ◀◀◀◀



3M-1860 / regular  
3M-1860S / small

1860 (N95) / 1860S (N95)

Is an all-in-one fluid-resistant N95 respirator and surgical mask, designed to provide health care workers the reliable protection they need. It features an adjustable nose clip to help provide a custom fit and secure seal. Available in two sizes



3M-1870

1870 (N95)

A breakthrough in comfort and convenience. This three-panel respirator with innovative design has fluid-resistant properties and is an all-in-one N95 respirator and Surgical Mask



\*3M™ recommended for relief against nuisance level acid gas or organic vapors. Nuisance levels are less than OSHA PEL or applicable government occupational exposure limits, whichever is lower.

# RESPIRATORY PROTECTION



## 7500 Series Half Facepiece Reusable Respirator

*Easy breathing, comfort and durability*

### Adjustable Head Cradle

- Allows wearer to adjust for optimum fit and comfort

### Cool Flow™ Valve

- Valve design helps make breathing easier
- Helps reduce heat and moisture buildup for cool, dry comfort

### 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

### 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

### Dual-Mode Head Harness

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



Part No.	Description	Product Code
7501	Dual cartridge half facepiece, small	3M-7501
7502	Dual cartridge half facepiece, medium	3M-7502
7503	Dual cartridge half facepiece, large	3M-7503

## 6000 Series Half Facepiece Reusable Respirator

*Compatible and 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



Part No.	Description	Product Code
6100	Dual cartridge half facepiece, small	3M-6100
6200	Dual cartridge half facepiece, medium	3M-6200
6300	Dual cartridge half facepiece, large	3M-6300

## 7700 Series Single Half Facepiece - Reusable Respirator

*Compact and durability*

- Lightweight silicon facepiece
- Allows for wider field of view the respirator
- Quarter-turn cartridges can be attached and detached without removing



Part No.	Description	Product Code
7701k	Single cartridge half facepiece, small	3M-7701
7702k	Single cartridge half facepiece, medium	3M-7702
7703k	Single cartridge half facepiece, large	3M-7703



# RESPIRATORY PROTECTION



## **FF-400 Series Ultimate FX Full Facepiece Reusable Respirator** *Comfortable, durable protection for demanding, X-treme conditions*

### **Large lens featuring Scotchgard™ protector**

- Paint and stain-resistant lens-3M™ exclusive Scotchgard™ coating causes some paints and stains to bead up on the surface so they can be wiped off easily
- Helps lens stay clearer during some spray applications
- Provide a wide field of view



### **Passive speaking diaphragm**

- Optimally positioned for clearer and easier communications

### **Bonded silicone gaskets**

- Eliminates loose gaskets that can be lost

### **Easy to use**

- Respirator attachments twist on and off easily for quick assembly and disassembly

### **Durable, long-lasting head harness**

- Features a six-strap configuration for a secure fit
- Harness straps pulled over one million times in development durability testing

### **Comfort cradle**

- Positions the respirator more comfortably on the head

### **Soft, silicon nose cup and face seal**

- Engineered for maximum durability, comfort and resilience
- Three sizes help the respirator fit a broad range of face shapes and sizes

### **Cool Flow™ Valve**

- Allows for easier breathing
- Reduces heat and moisture buildup for cool, dry comfort



Part No.	Description	Product Code
FF-401	Dual cartridge full facepiece, small	3M-FF-401
FF-402	Dual cartridge full facepiece, medium	3M-FF-402
FF-403	Dual cartridge full facepiece, large	3M-FF-403

## **6000 Series Full Facepiece Reusable Respirator**

### **Reliable, convenient and 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 Z87.1-2003 for high impact (Z87+)
- Lightweight, well balanced design with silicone face seal for enhanced comfort and durability
- Available in air purifying respirator (APR), supplied air and powered air purifying respirator (PAPR) modes



Part No.	Description	Product Code
6700	Dual cartridge full facepiece, small	3M-6700
6800	Dual cartridge full facepiece, medium	3M-6800
6900	Dual cartridge full facepiece, large	3M-6900

## **7800S Series Full Facepiece Reusable Respirator**

### **Designed for durability and protection**

- Silicone facepiece enhances fit and improves durability
- Double-flange face seal 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



Part No.	Description	Product Code
7800S	Dual cartridge full facepiece, small	3M-7800S-S
7800S	Dual cartridge full facepiece, medium	3M-7800S-M
7800S	Dual cartridge full facepiece, large	3M-7800S-L





## 2000 Series Filters



- Hydrogen fluoride and nuisance level acid gas relief\* $\infty$
- Nuisance level organic vapor and acid gas relief\* $\dagger$
- Nuisance level acid gas relief\*
- Nuisance level organic vapor relief\* $\dagger$

\*Nuisance level: below OSHA/DOSH PEL

$\infty$  For HF, use fullface respirator with 2076HF filters for protection up to 10x OEL

$\dagger$  For ozone, use 6000 series respirator with 2078 or 2097 filters recommended by 3M up to 10x OEL

## 6000 Series Cartridges



- Certain organic vapors
- Chlorine, hydrogen chloride, and sulfur dioxide or chlorine dioxide or hydrogen sulfide
- Certain organic vapors, chlorine, hydrogen chloride, and sulfur dioxide and hydrogen sulfide
- Formaldehyde and certain vapors
- Certain organic vapors, chlorine, hydrogen chloride, chlorine dioxide, sulfur dioxide, hydrogen sulfide ammonia/ methylamine, formaldehyde or hydrogen fluoride

## 7700 Series Cartridges, filters and Retainer



- Certain organic vapors
- Certain organic vapors, chlorine, hydrogen chloride, and sulfur dioxide or hydrogen sulfide (escape only)

## Filters Adapters Retainers





## 3M™ Supplied Air\* Respirators

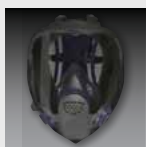
## Facepieces



7800S-S\*\*  
7800S-M\*\*  
7800S-L\*\*  
Full Facepiece



6700 (S) 07138  
6800 (M) 07139  
6900 (L) 07140  
Full Facepiece



FF-401 (S) 89418  
FF-402 (M) 89421  
FF-403 (L) 89424  
Full Facepiece



6700DIN (S)  
6800DIN (M)  
6900DIN (L)  
Full Facepiece



6501 (S)  
6502 (M)  
6503 (L)  
Half Facepiece



6100 (S) 07024  
6200 (M) 07025  
6300 (L) 07026  
Half Facepiece



7501 (S)  
7502 (M)  
7503 (L)  
Half-Facepiece

## Adapter Kits



Back-Mounted  
Adapter Kits  
SA-2000 (High Pressure)  
SA-2000LP (Low Pressure)



Front-Mounted  
Adapter Kits  
SA-1000 (High Pressure)  
SA-1000LP (Low Pressure)



Combination Back-  
Mounted Adapter Kits  
SA-2100 (High Pressure)  
SA-2100LP (Low Pressure)

## Supplied Air Hose



W-9435  
3/8" High  
Pressure Hose  
(25, 50, or 100 ft.)



W-2929  
3/8" High  
Pressure Hose  
(25, 50, or 100 ft.)



W-3020  
1/2" Low  
Pressure Hose  
(25, 50, or 100 ft.)

## Air Purification Panels



256-02-00\*\*\*  
(50 cfm) with CO  
Filtration and Monitor



256-02-01\*\*\*  
(100 cfm) with  
CO Monitor



W-2806  
(50 cfm) without  
CO Monitor  
07006



Note: W-2808\*\*\*  
CO Monitor Retrofit  
Kit Available  
37027

Note: Headgear, breathing tube, air control valve, and compressed air supply hose are required parts in a NIOSH-approved system. Any NIOSH certification appearing on 3M components is strictly limited to use in an approved air system and only in full accordance with the specifications and limitations under said approval. NIOSH certifies complete assemblies only, not sub-assemblies.

It is the employer's responsibility to ensure that the compressed air used with any supplied air system meets the requirements for at least Grade-D breathing air per the Compressed Gas Association Commodity Specification G-7.1 in the U.S. as specified in the Occupational Safety and Health (OSHA) Respiratory Protection standard 1910.134(i)(1)(ii). In Canada, refer to CSA Standard Z180.1 table for the quality of compressed breathing air.

\*\*Clip-on 3M™ Welding Shield also available.

\*\*\*The use of a calibration kit is also required, see part numbers 529-04-48 (Large) or part number 529-04-49 (Small)

# RESPIRATORY PROTECTION



## Integrated Suspension Head Covers

## Premium Maintainable Hoods



3M-S-133L-UK

- Designed to provide head and face coverage for general purpose
- Available in blue



3M-S-433L-UK

- The 3M™ Versaflo™ S-433L Hood is approved for use with certain 3M™ Powered Air Purifying and Supplied Air Respirator Systems.



3M-S-533L-UK

- Designed to provide head and face coverage for general purpose
- More durable with soft, quiet, low-linting fabric that drapes comfortably over the wearer



3M-S-655-UK

- Designed for greater comfort with adjustable airflow
- Provides wider field of vision
- Replaceable hoods for better cost efficiency

## Breathing Tubes



3M-BT-20S-UK  
Small / Medium

Design for use with S-series headtops



3M-BT-20L-UK Medium  
Large

Design for use with S-series headtops

## Air Control Devices



3M-V-100 Vortex™  
Vortex Cooling Assembly

- Designed to cool all incoming air up to 10 celsius and allows for airflow to be adjustable
- Requires up to 20 cfm at 60-90 psi depending on hose length



3M-V-200 Vortemp™  
Vortemp Heating Assembly

- Designed to warm all incoming air up to 10 celsius and allows for airflow to be adjustable
- Requires up to 20 cfm at 60-90 psi depending on hose length



3M-V-300  
Air Regulating Valve Assembly

- Designed to regulate airflow and allows airflow to be adjustable
- Requires up to 15 cfm at 25-55 psi depending on hose length



3M-V-400  
Low Pressure Connector Assembly

- Designed for use with low pressure pumps and W-3020
- Requires up to 15 cfm at 4-15 psi depending on hose length

## Pressure Hose



3M-W-9435-100  
3/8" High Pressure Hose  
(25, 50, OR 100ft)



3M-W-2929  
3/8" High Pressure Hose  
(25, 50, OR 100ft)



3M-W-3020  
1/2" Low Pressure Hose  
(25, 50, OR 100ft)

## Air Purification Panels



3M-256-02-00  
Portable Air Purification Panel

- Comes with CO filtration and monitor
- 50 cfm panel with 4 outlets
- Intrinsically safe (In battery mode)



3M-256-02-04 /  
3M-256-02-05  
Portable Air Purification Panel

- Comes with CO monitor
- 50 cfm panel with 2 outlets
- Intrinsically safe (In battery mode)
- Can be wall-mounted (256-02-04)



3M-256-02-01  
Portable Air Purification Panel

- Comes with CO monitor
- 100 cfm panel with 8 outlets
- Intrinsically safe (In battery mode)



3M-W-2806  
Portable Air Purification Panel

- Designed to filter and regulate plant air

# RESPIRATORY PROTECTION



## Versaflo™ Powered Air Turbo

The all-new, lightweight 3M™ Versaflo™ TR-300 Powered Air Respirator is the key to an easy-to-use, versatile, respirator system for environments with hazardous particles.

- Protection from particles and some nuisance level\*\*\* gases and vapours
- Slim, lightweight, balance design
- Controlled flow, at nominal 190 l/min
- Easy to adjust and maintain
- Audible and visual low airflow and low battery alarms
- Battery charge indicator
- A window on the turbo allows instant identification of the installed filter
- Outer surfaces are easy to clean
- IP53 rating. Suitable for use in a decontamination shower



### Technical Specifications

Approvals Respiratory protection*	EN12941 TH2/TH3
Filters	Particle Particle + Nuisance level organic vapour*** Particle + Nuisance level acid gas filter (and Hydrogen fluoride, 10 x threshold limit value)***
Airflow Manufacturer's minimum design flow (MMDF) Nominal Airflow	170 l/min 190 l/min
Weight (including high capacity battery, standard belt and particle filter)	1 095 g
Battery Operating hours**	Li ion 5-6 hrs (economy battery) 10-12 hrs (high capacity battery) Less than 3hrs (economy battery) Less than 3.5hrs (high capacity battery)
Recharging time	
Belts selection	1) Standard webbing 2) Coated, easy-clean 3) Heavy-duty leather
Temperature range Operation Storage	-10°C to + 55°C -30°C to + 50°C

### Versaflo™ TR-302E/TR-302UK Turbo Unit

The TR-302E turbo unit comes with a filter cover and airflow indicator only.

### Versaflo™ TR-315E/TR-315UK Starter Kit

This 3M™ Versaflo™ TR-315E starter kit includes TR-300 turbo unit, particulate filter, pre-filter, standard belt, high capacity battery pack, battery charger kit, self-adjusting breathing tube and airflow indicator

## Integrated Suspension Head Covers

## Premium Maintainable Hoods



3M-S-133

- Designed to provide head and face coverage for general purpose
- Available in blue



3M-S-433

- The 3M™ Versaflo™ S-433L Hood is approved for use with certain 3M™ Powered Air Purifying and Supplied Air Respirator Systems.



3M-S-533

- Designed to provide head and face coverage for general purpose
- More durable with soft, quiet, low-linting fabric that drapes comfortably over the wearer



3M-S-655

- Designed for greater comfort with adjustable airflow
- Provides wider field of vision
- Replaceable hoods for better cost efficiency

## BT-Series breathing tubes

All BT-Series breathing tubes feature the QRS (Quick Release Swivel) connection for maximum comfort and ease of use



3M-BT-20S-UK/  
3M-BT-20L-UK  
Standard duty breathing tube



3M-BT-30-UK  
Length adjusting breathing tube



3M-BT-40-UK  
Heavy duty breathing tube



# RESPIRATORY PROTECTION



## Jupiter™ Powered Air Turbo

The Jupiter Powered Air Purifying Respirator is designed to deal with dust, particles, fumes, gases and vapours produced in the workplace, which can be injurious to the lungs. The Jupiter Turbo contains the motor and battery and is mounted on a sturdy decontamination belt.

- Low profile modular 3M™ Jupiter™ Powered Air Purifying
- Respirator for use with Quick Release Swivel (QRS) headtops
- Choice of 8 hour or 4 hour I.S NiMH battery
- Intelligent Charger
- Complete with decontamination belt
- Adjustable electronic flow control up to 230 litres/minute with visual and audible low airflow and low battery warnings
- Filter cover prevents damage to or sparks entering the filter body and allows light shower decontamination
- Smooth shape allows easy cleaning
- The Jupiter system can be ordered with your choice of 3M Headtops
- Certified I.S. to EN50020 EEX iB IIB T3 IP63 using I.S. pouch & battery



## Filter & Cartridges

- P3 Filters (Particulates)
- A2P3 Cartridge (OV / Particulates)
- K1P3 Cartridge (AM / Particulates)
- A1B1E1P3 Cartridge (OV / Inorganic / AG / Particulates)
- A2B1E1K1P3 Cartridge (OV / Inorganic / AG/AM / Particulates)



## 3M™ Jupiter Battery

8 hour 007-00-64P



### Technical Specifications

<b>Approvals</b>	
Respiratory protection*	EN12941 TH2/TH3
<b>Filters</b>	
Particle filter	P
Combined gas/ particle filter	A2P, ABE1P, K1P, A2BEK1P
<b>Airflow</b>	
Maximum Airflow	
Manufacturer's Minimum Design Flow (MMDF)	230 l/min 150 l/min
<b>Weight</b> (including 8hr battery, belt and particle filter)	1 471 g
<b>Battery</b>	
Operating hours**	NiMH 4 hrs (economy battery) 4 hrs (IS battery)** 8 hrs (High capacity battery)
Recharging time	Approx. 6 hrs
<b>Belt</b>	Decontaminable
<b>Temperature range</b>	
Operation	-5°C to + 40°C
Storage	-10°C to + 50°C

\* For further information, please refer to the headtop information or contact 3M

\*\* Can be used in potentially explosive atmospheres when used with specific intrinsically safe accessories

## Integrated Suspension Head Covers

## Premium Maintainable Hoods



3M-S-133

- Designed to provide head and face coverage for general purpose
- Available in blue



3M-S-433

- The 3M™ Versafo™ S-433L Hood is approved for use with certain 3M™ Powered Air Purifying and Supplied Air Respirator Systems.



3M-S-533

- Designed to provide head and face coverage for general purpose
- More durable with soft, quiet, low-linting fabric that drapes comfortably over the wearer



3M-S-655

- Designed for greater comfort with adjustable airflow
- Provides wider field of vision
- Replaceable hoods for better cost efficiency

## BT-Series breathing tubes

All BT-Series breathing tubes feature the QRS (Quick Release Swivel) connection for maximum comfort and ease of use



3M-BT-20S/3M-BT-20L  
Standard duty breathing tube



3M-BT-30  
Length adjusting breathing tube



3M-BT-40  
Heavy duty breathing tube



**3M**

**Versaflo™**

Powered Air Purifying Respirator

**TR-600**



## Versaflo™ Components

### Headtops



### Filters



### Breathing Tubes



### Batteries



### Belts



### Accessories



3M™ Versaflo™ S-Series Hoods and Headcovers 3M™ Versaflo™ M-Series Faceshields, Hard Hats and Helmets

S-Series Integrated Suspension Headcovers M-100 Series Faceshields

S-Series Integrated Suspension Hoods M-300 Series Hard Hats

S-Series Premium Suspension Hoods M-400 Series Helmets

Filters/Cartridges	Description
TR-6320N	3M™ Versaflo™ Acid Gas/HE Cartridge
TR-6350N	3M™ Versaflo™ Formaldehyde/HE Cartridge
TR-6360N	3M™ Versaflo™ Ammonia/Methylamine/HE Cartridge
TR-6510N	3M™ Versaflo™ Organic Vapor/HE Cartridge
TR-6530N	3M™ Versaflo™ Organic Vapor/Acid Gas/HE Cartridge
TR-6590N	3M™ Versaflo™ Multi-Gas/HE Cartridge
TR-6710N	3M™ Versaflo™ High Efficiency Filter
TR-6820N	3M™ Versaflo™ HE and Nuisance OV/AG Filter

Breathing Tubes	Description
BT-20L-US	Breathing Tube
BT-30-US	Length Adjusting Breathing Tube
BT-40-UK	Heavy Duty Breathing Tube

Batteries	Chargers
TR-630 Standard Battery	TR-641N Single Station Battery Charger Kit
TR-632 High Capacity Batteries	TR-644N 4-Station Battery Charger Kit

Belts	Belt Extenders
TR-626 High Durability Belt	TR-626X High Durability Belt Extender
TR-627 Easy Clean Belt	TR-627X Easy Clean Belt Extender

Accessories	
TR-6600 Prefilter	BPK-01 Backpack
TR-662 Spark Arrestor	TR-655 Backpack Adaptor
TR-653 Cleaning and Storage Plugs	TR-329 Suspenders



## T8000 SCBA HW-SCBA-EN1868527

- \*\*\* The complete SCBA rigorously passed continuous breathing tests 1.2 million times and provides high reliability
- \*\* The operating practice and working circumstances of users in Asia are taken into complete consideration in the rigorous development and research by simple design and well-planned layout of the product
- \* The whole SCBA only weight 10.4 kg (Including 4.0 kg gas cylinder). Its light weight design meets easy mobility and long working time requirements

- Certified EN137-2006
- Passed 1.2 million continuous breathing tests, provides high reliability and stability
- Light weighted, total weight only 10.4kg (Including 3.8kg cylinder), suitable for long time wearing
- High technology reducer design, simple and stable, easy to maintain
- High efficiency rescue outlet provides high air flow for rescue purpose
- Built in High Pressure hose with exposure hole outside, ensures user safety
- Chest whistle provides over 90dB alarm
- Flexible Banjo connector provides more flexibility when wearing the demand valve
- Optional Survivair 20/20 plus mask for high visibility and wide vision

### PANO Fullface Respirator

- Made from EPDM Rubber (Ethylene propylene diene Monomer)
- Specially designed for Asian people
- Panoramic field of vision
- Speech diagram
- Good anti-fog performance



## SIGMA 2 TYPE 2 SELF CONTAINED BREATHING APPARATUS



- Proven high performance pneumatic system Compact first breath activated demand valve with bypass
- Ergonomically designed lightweight backplate and type 2 harness
- Kevlar blend flame retardant webbing with Kevlar cylinder band
- Wide choice of facemasks from the Vision 3, Promask PP and Panaseal ranges
- Corrosion resistant Nickel plated components
- Simple operation for users All components are user serviceable, low cost and easy to maintain
- Will accept wide range of 200 and 300 bar cylinders
- Approved to the MED as a Type 2 set

