Providing clean breathing air is essential when working in areas subjected to extremely hazardous contaminants. 3M offers an extensive and flexible range of industrial powered and supplied air respirators, developed especially for the toughest environments.

These respiratory protective systems offer comfortable protection against multiple hazards and their ease-of-use enables improved productivity at the workplace.

3M is available to support the user in the correct selection, training and proper use of these products.

The Selection of Respiratory Protection Equipment follows a basic 3M 4-step method:

1. Identify the Hazards – dust, metal fume, gas, vapour etc.
2. Assess the Risk – assess the hazard levels against safety standards and consider other protection – skin, eye and body
3. Select the right Respirator – disposable, reusable, half mask, full face, powered, supplied-air
4. Train in Fitting and Use – to optimise respiratory protection
Protection against multiple hazards

There are a wide variety of system configurations which can be used for many different hazards and applications.

Systems can be selected to offer combined protection from multiple hazards ranging from respiratory & eye through to respiratory, eye, face, head, hearing and neck and shoulder coverage.

Build your level of Protection
**Powered Air System?**
+ Incorporates a battery powered motorised fan to draw air through a filter
+ **Cannot be used** to protect against substances with poor warning properties (taste/smell)
+ Must not be used in conditions that are Immediately Dangerous to Life or Health (IDLH)
+ Suitable for use over long shifts - reduced breathing resistance
+ Can offer integrated head, eye and face protection

**Supplied Air System?**
+ Air is supplied from a compressor (compressed air must be of breathable quality)
+ **Can be used** to protect against substances with poor warning properties (taste/smell)
+ Must not be used in conditions that are Immediately Dangerous to Life or Health (IDLH)
+ Suitable for use over long shifts - reduced breathing resistance
+ Can offer integrated head, eye and face protection

---

**Powered Air Respirators**
- 3M™ Versaflo™ TR-300 Powered Air Turbo
- 3M™ Jupiter™ Powered Air Turbo
- 3M™ Airstream™ Powered Air Respirator
- 3M™ Powerflow™ Powered Air System

**Supplied Air Respirators**
- 3M™ Versaflo™ V-Series Regulators
- 3M™ Aircare™ Filtration Unit ACU-01/ACU-02
- 3M™ S-200 Supplied Air Face Mask Respirator
- 3M™ Visionair™ Supplied Air Faceshield Respirator
The modular respirator system is a comprehensive approach to worker protection systems based on comfortable-to-wear modules. All modular headtops, air delivery units and breathing tubes are compatible with one another. Users can mix and match parts as they move from one environment to another, or from one application to the next. It is the ultimate in flexibility for handling changing user environments.

The individual respirator systems can be used in a variety of workplace applications. They include powered air respirators with integrated head, eye, face and respiratory protection and supplied air regulators with half and full face masks.

**Selection Process for Powered Air System**

**Stage 1A**
Select your Powered Air Turbo*

**Stage 1B**
Select your Filters, Battery and Belt

**Stage 2**
Select your Headtop

**Stage 3**
Select your Breathing Tube

**Stage 4**
Choose Accessories

* Want an even easier way to select a system? Choose 3M’s powered air starter kits, which include everything apart from the headtop.

**Selection Process for Supplied Air System**

**Stage 1**
Select your Regulator

**Stage 2**
Select your Headtop

**Stage 3**
Select your Breathing Tube

**Stage 4**
Select your Compressed Air Supply Tube

**Stage 5**
Select Couplings

**Stage 6**
Choose Accessories
3M™ Powered & Supplied Air Respirator Range

3M™ Versaflo™ Respirator Systems

**3M™ Versaflo™ S-Series Headcovers and Hoods**
- Integrated Suspension
- Reusable Suspension
- S-133 S/L
- S-333G S/L
- S-433 S/L
- S-533 S/L
- S-655
- S-657
- S-757
- S-855E

**3M™ Versaflo™ M-Series Headtops**
- Faceshields
- Helmets
- Helmets with Shrouds
- M-106
- M-107
- M-306
- M-307
- M-406
- M-407

**Breathing Tubes**
- BT-20 S/L: Lightweight (in two lengths)
- BT-30: Self-adjusting
- BT-40: Heavy-duty rubber

**Powering Air Turbos**
- Particulate only (nuisance level organic vapour and acid gas options available)
- Particulate + Gas & Vapour
- Intrinsically Safe

**3M™ Versaflo™ TR-300 Powered Air Turbo**

**3M™ Jupiter™ Powered Air Turbo**

**3M™ Jupiter™ Powered Air Turbo with IS Kit**

**Filter**
- Spark arrester
- Prefilter
- P Filter
- P/Nuisance Level Organic Filter
- P/Nuisance Level Acid Gas (HF up to 10 x Threshold Limit Value)

**Battery**
- Standard (4.5-6 hour) battery
- High capacity (9-12 hour) battery

**Charger**
- Single Station Charger
- 4-Station Battery Charger Kit

**Filter**
- Prefilter Pads
- Particulate P Filters
- A2P Filters
- A2B/EK1P Filters
- K1P Filters
- ABE1P Filters

**Battery**
- 4 hour battery
- 8 hour battery
- 4-hour IS battery

**Charger**
- Single Station Charger
- 10-station Multi Charger
Individual Respirator Systems

Welding Shields, High Temperature Helmet and Welding Helmets

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<td>HT-749</td>
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<td>HT-639</td>
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</tbody>
</table>

Breathing Tube Accessories

- BT-922: Disposable Cover
- BT-926: Flame-resistant Cover

Supplied Air Regulators

- Air Cooling: 3M™ Versaflo™ V-100E Supplied Air Regulator
- Air Heating: 3M™ Versaflo™ V-200E Supplied Air Regulator
- Flow Controlled: 3M™ Versaflo™ V-500E Supplied Air Regulator

Belt unit coupling

Air Supply Tube

Air supply tube coupling set

3M™ Aircare™ Filtration Units (wall mounted or Freestanding)

Helmet-Mounted Powered Air Respirator

- 3M™ Airstream™ Helmet

Face-Mounted Powered Air Respirator

- 3M™ Powair™ Powered Air System

Supplied Air Face Mask Respirator

- 3M™ S-200 Supplied Air System

Supplied Air Faceshield Respirator

- 3M™ Visionair™ Supplied Air Faceshield Respirator

Chemical & Respiratory Protective Suits*

- 3M™ JS-470 and JS-330 Protective Suits
* For more information see pages 134-136.
3M™ Versaflo™ Powered Air Turbo

The 3M™ Versaflo™ TR-300 Powered Air Respirator System combines performance, protection and functionality with modern, stylish design and comfort. It is the key to easy-to-use, versatile, respiratory protection systems for particulate environments.

**Industries**
- Pharmaceutical manufacturing
- Woodworking
- Surface preparation
- Food & Beverage
- Metal Working
- Smelting

- Electronic audible and visual alarm in case of low battery and/or low air flow
- High efficient filter captures hazardous dust, mist and fume plus options for nuisance level gases and vapours
- Light and small - extremely slim, lightweight, balanced design for comfort
- Approved to EN 12941, class TH2 or TH3 dependent on headtop
- IP53 rating. Suitable for use in decontamination shower
- Intelligent lithium ion battery quickly charges and doesn’t suffer from memory effect. Charge status is indicated by a useful LED display.

**3M™ Versaflo™ TR-315E Starter Kit**
This Versaflo Starter Kit includes the TR-302E Turbo, particulate filter, pre-filter, standard belt, high capacity battery pack, battery charger kit, self-adjusting breathing tube and airflow indicator.

Now choose your headtop from pages 45-51.

**3M™ Versaflo™ TR-302E**
Powered Air Turbo
This unit comes with an airflow indicator only. To adapt to your type of environment see options below.

**Filters**
- TR-3600 Pre-filter (pack of 10)
- TR-3710E Particulate Filter (P)
- TR-3800E P + Nuisance Level Organic Vapour Filter
- TR-3802E P + Nuisance Level Acid Gas Filter (Hydrogen Fluoride up to 10 x Threshold Limit Value)

*“Nuisance level” refers to concentrations below the threshold limit value (TLV)*

**Batteries** (lithium ion)
- TR-330 Standard Battery Pack
- TR-332 High Capacity Battery Pack (longer life)

**Filters**
- TR-325 Standart Belt
- TR-326 Leather Belt
- TR-327 Easy-Clean Belt
- TR-329 Braces
- BPK-01 Backpack

**Chargers**
- TR-341E Single Station Battery Charger Kit
- TR-344E 4-Station Battery Charger Kit
The 3M™ Jupiter™ Powered Air Turbo is a comfortable, easy-to-use unit that provides protection against particulates, gases or vapours, or against a combination of these depending on the types of filter used. An integrated acoustic and visual alarm indicates if airflow to the headtop is reduced or battery charge runs low. The Jupiter Powered Air Turbo is also available with an optional Intrinsically Safe (IS) kit.

- Modern, ergonomic design
- IP53 Rating, Suitable for shower decontamination
- High comfort decontamination belt
- Electronic audible and visual alarm in case of low battery and/or low air flow
- Approved to EN 12941 class TH2 or TH3 dependent on headtop
- “Intrinsically Safe” (IS) Kit available for use in potentially explosive atmospheres. Kit includes pouch and Intrinsically Safe battery.

**Industries**
- Pharmaceutical manufacturing
- Painting
- Chemical processing
- Agriculture
- Demolition
- Pulp and Paper Processing
- Medical & Healthcare
- Foundries

---

**Filters**

- P Filter (pack of 2) (450-00-25P)
- A2P Filter (pack of 2) (453-00-25P)
- ABE1P Filter (pack of 2) (456-18-25P)
- ABEK1P Filter (pack of 2) (453-09-25P)
- K1P Filter (pack of 2) (456-18-25P)
- Pre-filter Pack (pack of 24) (461-00-03P)

**Batteries (NiMH)**

- Battery Pack - 8 hour (007-00-64P)
- Battery Pack - 4 hour (007-00-63P)
- Battery Pack - 4 hour IS battery (provided as part of IS kit with pouch) (085-12-03P)

**Chargers**

- Intelligent Charger (003-00-58PIU)
- Jupiter 10 Station Intelligent Charger (003-00-59P)

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**3M™ Jupiter™ Powered Air Starter Kit**

This Starter Kit includes a standard Jupiter Turbo with decontamination belt and clip, air flow indicator and calibration tube as well as a pair of organic vapour and particulate (A2P) filters, pre-filters, self-adjusting breathing tube, 8 hour rechargeable battery (NiMH) and battery charger.

*Now choose your headtop from pages 45-51.*

---

**3M™ Jupiter™ Turbo (085-00-10P)**

Includes decontamination belt, air flow indicator and calibration tube. To adapt to your type of environment see options below.
3M™ Versaflo™ Supplied Air Systems

The modular range of supplied air respirators lets you choose how you want your system built, with the flexibility to change it in the future.

3M™ Versaflo™ V-Series Supplied Air Regulators offer protection against dust, mist, fumes, gases or vapours and combination hazards e.g. paint spray. Supplied Air Regulators do not offer protection in confined spaces, oxygen deficient atmospheres or for asbestos stripping.

- Low-pressure warning whistle
- Integrated silencer
- Individually-adjustable, consistently-controlled airflow.
- Removable, integrated activated charcoal filter
- Belt swivel mechanism
- Spray gun or compressed air tool port
- Supplied air connection
- Approved to EN 14594 Class 2A/3A or 2B/3B dependent on headtop
- Air flow 170-305 l/min

3M™ Versaflo™ V-500E
Supplied Air Regulator
Balanced regulator specifically designed for respirator use, the Versaflo V-500E Regulator ensures smooth airflow, safety and comfort.

Now choose your headtop from pages 45-51.

Filtration Units and Couplings
The 3M™ Aircare™ Filtration Unit can be connected inline to clean the compressed air before it is fed to the regulator.

The various components of the Versaflo V-Series Regulators are connected using plug and socket hose couplings (Rectus 25 or CEJN 342 connectors available).

Further details on page 53-54.

3M™ Versaflo™ V-100E Air Cooling and V-200E Air Heating Regulators
3M™ Versaflo™ V-100E and V-200E Regulators allow users to either cool (V-100E) or heat (V-200E) the air by as much as 28° C, making them a good choice for workers exposed to either uncomfortably hot or cold temperatures.
Based on a computer modeling of a worldwide sampling of head sizes, new 3M™ Versaflo™ S-Series Headcovers and Hoods, through their sizing and adjustment options, will comfortably fit many users. The integrated suspension headcovers and hoods can be suitable for applications that require frequent replacement of the entire headtop assembly, such as pharmaceutical manufacturing, or in situations where there is less soiling of the outer fabric. For disposal, the suspension assembly and air inlet components can be quickly removed and separated for segregated waste streams, where facilities are available.

**All-Day Comfort**
+ Slim design, that closely profile the user’s head for improved appearance.
+ Lightweight and loose-fitting.
+ Excellent airflow distribution for improved comfort, lower noise and reduced fogging.

**Integrated Suspension**
+ Ready to use straight out of the box.
+ Available in two adjustable sizes:
  S/M (50-58 cm) and M/L (54-64 cm).

**Improved Visibility**
+ Excellent field of view, particularly downwards, with reduced curvature for decreased reflections and glare

**Added Protection**
+ Comfortably worn with prescription eyewear, safety glasses, and some limited facial hair
+ Meet the highest respiratory performance requirements (TH3) for this type of product when used with 3M™ Air Delivery Unit
+ Eye and face protection to EN166 – liquid splash and low energy impact
+ Coverage of head, hair, neck and shoulder

---

**3M™ Versaflo™ S-333G Headcover**
Soft, quiet, more durable low-linting fabric.
Fabric material: Polyurethane coated knitted polyamide.
Visor material: Coated polycarbonate for increased chemical and scratch resistance.

**3M™ Versaflo™ S-133 Headcover**
General purpose, cost-effective fabric.
Fabric material: 2-layer polypropylene spunbond/laminated film.
Visor material: PETG.

**3M™ Versaflo™ S-433 Hood**
Includes neck and shoulder coverage.
Fabric material: Polypropylene spunbond/laminated film.
Visor material: PETG.

**3M™ Versaflo™ S-533 Hood**
Neck and shoulder coverage with soft, low-linting fabric that more readily drapes over user.
Fabric material: Polyurethane coated knitted polyamide.
Visor material: Coated polycarbonate for increased chemical and scratch resistance.

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**3M™ Air Delivery Unit Standards with S-Series Headcovers and Hoods* NPF**

<table>
<thead>
<tr>
<th>3M™ Air Delivery Unit</th>
<th>Standards with S-Series Headcovers and Hoods*</th>
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<td>EN12941 TH3, EN166 2 F:3</td>
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<tr>
<td>3M™ Jupiter™</td>
<td>EN12941 TH3, EN166 2 F:3</td>
<td>500</td>
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<tr>
<td>3M™ Versaflo™ V-500EN-2000EV-100E</td>
<td>EN14594 3A, EN166 2 F:3</td>
<td>200</td>
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</table>

* The S-Series Headcovers and Hoods meet the lower strength (A) requirements of EN14594. They are approved for use with a range of compressed air supply tubes that meet both the lower and higher strength (A and B) requirements.

** Nominal Protection Factor - a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protective devices.
3M™ Versaflo™ S-Series
Premium Hoods with Reusable Suspensions

Based on a computer modeling of a worldwide sampling of head sizes, new 3M™ Versaflo™ S-Series Headcovers and Hoods, through their sizing and adjustment options, will comfortably fit many users. Premium reusable suspension hoods can be a highly cost-effective choice for some high disposal rate environments; just the soiled hood fabric is replaced, while the suspension and air ducting can be reused. It also has an externally-adjustable airflow control that allows wearers to modify the airflow distribution to suit personal comfort needs. With a simple turn of the external controller, wearers can shift the location of air flowing over the back of their head to over their temples, face and visor.

All-Day Comfort
+ Slim design, that closely profile the user’s head for improved appearance
+ Lightweight and loose-fitting
+ Excellent airflow distribution for improved comfort, lower noise and reduced fogging

Reusable Suspension
+ Cost effective choice for some high disposal rate environments
+ User control of airflow location and suspension adjustments for best comfort and custom fit
+ One Size: 50-64 cm

Improved Visibility
+ Excellent field of view, particularly downwards, with reduced curvature for decreased reflections and glare

Added Protection
+ Comfortably worn with prescription eyewear, safety glasses, and some limited facial hair
+ Meet the highest respiratory performance requirements (TH3) for this type of product when used with 3M™ Air Delivery Units
+ Eye and face protection to EN166 – liquid splash and low energy impact

3M™ Air Delivery Unit Standards with S-Series Headcovers and Hoods* NPF**

<table>
<thead>
<tr>
<th>3M™ Versaflo™ TR-300</th>
<th>EN12941 TH3, EN166 2:F:3</th>
<th>500</th>
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<tbody>
<tr>
<td>3M™ Jupiter™</td>
<td>EN12941 TH3, EN166 2:F:3</td>
<td>500</td>
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<tr>
<td>3M™ Versaflo™ V-900E/V-200E/V-100E</td>
<td>EN14994 3A, EN166 2:F:3</td>
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* The S-Series Headcovers and Hoods meet the lower strength (A) requirements of EN14984. They are approved for use with a range of compressed air supply tubes that meet both the lower and higher strength (A and B) requirements.
** Nominal Protection Factor - a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protective devices.

3M™ Versaflo™
S-655 Hood
General purpose, with knitted inner collar that is shorter and thinner than previous models. Fabric material: 2-layer polypropylene spunbond/laminated film. Visor material: PETG

3M™ Versaflo™
S-657 Hood

3M™ Versaflo™
S-855E Hood

Zytron® is a registered trademark of Kappler.
3M™ Modular Respirator Systems

3M™ Versaflo™ M-100 Series Faceshields

The 3M™ Versaflo™ M-100 Series Headtops feature lightweight, compact and well-balanced faceshields that can offer integrated protection from a range of respiratory, eye, face and hearing hazards.

Applications
+ Woodworking
+ Painting
+ Surface treatment
+ Agricultural applications
+ Grinding
+ Polishing

Highly Versatile Rigid Headtops
+ Provides protection from specific respiratory, head and eye hazards

Modern, Well Balanced Design
+ Lightweight with excellent balance
+ Fully-adjustable head suspension
+ A deflector allows users to direct the airflow inside the headtop for increased control and comfort

Visor Design
+ Visor design combines excellent peripheral and downward vision with good optical clarity
+ Lenses provide chemical and scratch resistance

Easy To Maintain
+ Optional hearing protection 3M™ Peltor™ Helmet-Mounted Earmuff Assembly
+ Many parts are common to all Versaflo M-Series Headtops, meaning reduced inventories and downtime
+ Spare parts and accessories are quick, easy and intuitive to replace

3M™ Versaflo™ M-106 Faceshield
Features a general purpose faceseal for dusts, spraying and chemical processing.
Fabric material: Polyurethane coated polyamide.

3M™ Versaflo™ M-107 Faceshield
Features a flame resistant faceseal for applications with hot particles.
Fabric material: flame resistant polyester.

Accessories
- M-928 Peel-Off Visor Covers (pack of 10)
- M-935 Standard faceseal (white) (pack of 5)
- M-936 Comfort faceseal (pack of 5)
- M-937 Flame resistant faceseal (pack of 5)
- M-958 Chin-strap
- 3M™ Peltor™ Hearing Protector Helmet Attachment H31P3AF-300
- M-972 Flame Resistant Headtop Cover
- M-976 Head, Neck and Shoulder Cover

3M™ Versaflo™ M-928 Peel-Off Visor Covers
Available accessory to protect the visor.

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<td>EN12641 TH2, EN166 1:B:3</td>
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<tr>
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<td>EN12641 TH2, EN166 1:B:3</td>
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<tr>
<td>3M™ Versaflo® V-500E/200EV-100E</td>
<td>EN14504 28®, EN166 1:B:3</td>
</tr>
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</table>

* The M-Series Faceshields and Helmets meet the higher strength (B) requirements of EN14504. They are approved for use with a range of compressed air supply tubes that meet both the lower and higher strength (A and B) requirements.

** Nominal Protection Factor – a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protective devices.
The 3M™ Versaflo™ M-300 Series Helmets feature lightweight, compact and well-balanced helmets that can offer integrated protection from a range of respiratory, head, eye, face and hearing hazards. Versaflo M-300 Series Helmets meet the highest respirator performance requirements (TH3) for this type of product when used with specific 3M Air Delivery Units.

**Applications**
- Smelting and Foundry applications
- Grinding
- Chemical processing and plant maintenance
- Agricultural applications
- Construction and Renovation
- Demolition

**Highly Versatile Rigid Headtops**
+ Head protection approved according to EN397
+ Integrated protection from multiple hazards (e.g. respiratory, impact, splash hazards)

**Modern, Well Balanced Design**
+ Lightweight with excellent balance
+ Fully-adjustable head suspension
+ A deflector allows users to direct the airflow inside the headtop for increased control and comfort.

**Visor Design**
+ Visor design combines excellent peripheral and downward vision with good optical clarity
+ Lenses provide chemical and scratch resistance

**Easy To Maintain**
+ Optional hearing protection 3M™ Peltor™ Helmet-Mounted Earmuff Assembly
+ Many parts are common to all Versaflo M-Series Headtops, meaning reduced inventories and downtime
+ Spare parts and accessories are quick, easy and intuitive to replace

### 3M™ Air Delivery Unit

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<th>3M™ Versaflo M-300 Series Helmets</th>
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<td>3M™ Jupiter‡</td>
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<tr>
<td>3M™ Versaflo™ V-500/E-V-200/E-V-100E</td>
<td>EN14504 3B*, EN166 1.B.3, EN397</td>
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* The M-Series Faceshields and Helmets meet the higher strength (B) requirements of EN149/3A. They are approved for use with a range of compressed air supply tubes that meet both the lower and higher strength (A and B) requirements.

** Nominal Protection Factor - a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protection devices.

** 3M™ Versaflo™ M-306 Helmet
Features a general purpose faceseal for construction, chemical applications and heavy industry.
Fabric material: Polyurethane coated polyamide

** 3M™ Versaflo™ M-307 Helmet
Features a flame resistant faceseal for applications with hot particles.
Fabric material: Flame resistant polyester

### Accessories
- M-928 Peel-Off Visor Covers (pack of 10)
- M-935 Standard faceseal (white) (pack of 5)
- M-936 Comfort faceseal (pack of 5)
- M-937 Flame resistant faceseal (pack of 5)
- M-958 Chin-strap
- 3M™ Peltor™ Hearing Protector Helmet Attachment H31P3AF-300
- M-972 Flame Resistant Headtop Cover
- M-976 Head, Neck and Shoulder Cover
3M™ Versaflo™ M-400 Series Helmets with Shrouds

The 3M™ Versaflo™ M-Series Helmets can offer integrated protection from a range of respiratory, head, eye, face and hearing hazards with additional neck and shoulder coverage. M-400 Series Helmets meet the highest respirator performance requirements (TH3) for this type of product when used with specific 3M Air Delivery Units.

Highly Versatile Rigid Headtops
+ Head protection approved according to EN397
+ Integrated protection from multiple hazards (e.g. respiratory, impact, splash hazards)

Modern, Well Balanced Design
+ Lightweight with excellent balance
+ Fully-adjustable head suspension
+ A deflector allows users to direct the airflow inside the headtop for increased control and comfort.

Visor Design
+ Visor design combines excellent peripheral and downward vision with good optical clarity
+ Lenses provide chemical and scratch resistance

Easy To Maintain
+ Many parts are common to all Versaflo M-Series Headtops, meaning reduced inventories and downtime
+ Spare parts and accessories are quick, easy and intuitive to replace

Applications
+ Smelting & Foundry applications
+ Grinding
+ Construction & renovation
+ Demolition

3M™ Versaflo™ M-406 Helmet
Features a highly durable shroud for construction applications and heavy industry.
Fabric material: Cordura® nylon

3M™ Versaflo™ M-407 Helmet
Features a flame resistant shroud for applications with hot particles.
Fabric material: flame resistant Nomex®
Nomex® is a registered trademark of Dupont.
Cordura® is a registered trademark of Invista.

Accessories
M-928 Peel-Off Visor Covers (pack of 10)
M-958 Chin-strap
M-447 High-durability shroud
M-448 Flame-resistant shroud
M-972 Flame-resistant headtop cover

3M™ Modular Respirator Systems

3M™ Air Delivery Unit

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<tr>
<td>EN149:3 E, EN166 1B:3, EN397</td>
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</table>

* The M-Series Face Shields and Helmets meet the higher strength (B) requirements of EN149:04. They are approved for use with a range of compressed air supply tubes that meet both the lower and higher strength (A and B) requirements.
** Nominal Protection Factor – a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protective devices.
3M™ HT-600 Series Welding Shields

The HT-600 Series Welding Shields not only offer respiratory protection but also face, eye and impact protection in metal working and fabrication environments. The various flip-up shield and filter mechanisms allow you to inspect your work whilst the large coverage area gives protection from radiation and sparks. The range also offers choice of filter shades including auto-darkening and fixed shade.

Thanks to the comfortable head harness and knitted faceseal, the welder can wear the welding shield for long periods of time. The airflow through the visor ensures reduced sweat build up and can make the welder more comfortable and efficient;

For a more comprehensive guide to welding protection, please refer to the welding section.

3M™ HT-639 Welding Shield

- A well-balanced shield
- Superb coverage
- Respiratory, eye, face and impact protection
- Conventional or auto-darkening filters can be fitted
- Supplied with a 90 x 110mm filter holder able to hold fixed shade or auto-darkening filters
- Weight: 696g

- New comfortable easy-adjust harness with double comfort band
- Harness/airduct in one robust assembly
- Super Coverage
- Liftable welding lenses to allow clear view, while retaining respiratory protection
- New airduct system giving improved airflow to the face area

3M™ HT-622 Welding Shield

A super-light shield for welders. Wide range of filter shade combinations available.

- Supplied with shade 1.7 UV filter, also available in shades 3 & 5
- Supplied with shade 8 welding filter, also available in shades 5 & 10
- Total shade range available from 6.7 to 15

3M™ HT-629 Welding Visor

The solution for those welders needing a welding shield with a clear, wide view visor beneath. The 90 x 110mm filter holder hinges down for easy access. Headtop weight: 794g.

- Supplied without a welding filter, but with cover lenses
- Conventional or auto-darkening filters can be fitted

<table>
<thead>
<tr>
<th>3M™ Air Delivery Unit</th>
<th>3M™ HT-600 Series Shields</th>
<th>NPF**</th>
</tr>
</thead>
<tbody>
<tr>
<td>3M™ Versaflo™ TR-300</td>
<td>EN12941 TH2, EN175</td>
<td>50</td>
</tr>
<tr>
<td>3M™ Jupiter™</td>
<td>EN12941 TH2, EN175</td>
<td>50</td>
</tr>
<tr>
<td>3M™ Versaflo™ V-500E/V-200E/V-100E</td>
<td>EN14594 2A, EN175</td>
<td>50</td>
</tr>
</tbody>
</table>

* The 600 Series headtops meet the lower strength (A) requirements of EN14594. They are approved for use with a range of compressed air supply tubes that meet both the lower and higher strength (A and B) requirements.

** Nominal Protection Factor - a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protective devices. The protection factor is assigned by local authorities in each European country and can therefore be different for different countries.
3M™ HT-700 Series Helmets

The 3M™ HT-700 Series Helmets offer not only respiratory protection, but also EN166 approved eye and face protection, as well as EN397 head protection. For especially hot work areas, the 3M™ HT-707 Helmet features a heat resistant shell and it is also available with an optional heat resistant cover. For welding application the 3M™ HT-748 and HT-749 Helmets can be equipped with either a fixed shade filter or an auto-darkening welding filter (90x110 mm for HT-748 and 3.25” x 4.25” for HT-749).

Applications
+ Smiting
+ Foundries (grinding, polishing)
+ Welding

+ The polycarbonate visor offers eye and face protection to EN166
+ Helmet shells provide head protection to EN397
+ Quick Release Swivel (QRS) Coupling for ease of use
+ Head and face seals
+ Constant airflow over wearer’s face
+ Light, well balanced

3M™ Air Delivery Unit  |  3M™ HT-707 Safety Helmet  |  3M™ HT-748/749 Helmets  |  NPF**
---|---|---|---
3M™ Versaflo™ TR-300  |  EN12941 TH2, EN166 2B:3.9, EN397  |  EN12941 TH2, EN166 2B:3.9, BS1542 Class 4, EN397  |  50
3M™ Jupiter™  |  EN12941 TH2, EN166 2B:3.9, EN397  |  EN12941 TH2, EN166 2B:3.9, BS1542 Class 4, EN397  |  50
3M™ Versaflo™ V-Series  |  EN4594 2A, EN166 2B:3.9, EN397  |  EN4594 2A, EN166 2B:3.9, BS1542, Class 4, EN397  |  50

* The 700 Series headsets meet the lower strength (A) requirements of EN14094. They are approved for use with a range of compressed air supply tubes that meet both the lower and higher strength (A and B) requirements.
** Nominal Protection Factor - a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protective devices. The protection factor is assigned by local authorities in each European country and can therefore be different for different countries.
A breathing tube connecting the air source with the headtop is required to ensure that clean air reaches the headtop reliably and with unrestricted airflow. The breathing tubes offered are compatible with all 3M™ Versaflo™ Headtops and Air Delivery Units.

- QRS (Quick Release Swivel) breathing tubes allow fast and easy connection.
- All BT-Series Breathing Tubes meet the higher respiratory performance requirements with 3M headtops.
- A special flame-resistant sleeve lengthens the life of the breathing tube and protects it from flying sparks.
- A disposable breathing tube cover is available to help aid, cleaning and decontamination.

**3M™ Versaflo™ BT-20 S/L Breathing Tube**
Lightweight breathing tube that comes in two lengths and is easy to wipe down.

Material: Polyurethane.
Length: 735 mm (S), 965 mm (L).

**3M™ Versaflo™ BT-30 Breathing Tube**
Self-adjusting length for improved fit for many wearers and reduce risk of catching and snagging.

Material: Polyurethane.
Length: 525 - 850 mm.

**3M™ Versaflo™ BT-40 Breathing Tube**
High durability breathing tube.

Material: Neoprene.
Length: 840 mm.

**Accessories**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BT-922</td>
<td>Disposable breathing tube cover</td>
</tr>
<tr>
<td>BT-926</td>
<td>Flame resistant breathing tube cover</td>
</tr>
</tbody>
</table>
Various compressed air supply tubes are available to connect the 3M™ Air Regulator to the facility’s compressed air system to meet different requirements.

The tubes are available in different lengths and they guarantee high quality connections to all components. The tubes have a 3/8” male pipe thread BSP at each end to allow flexibility in the choice of coupling systems.

- 3/8” BSP of the hose
- Flexibility of the hose
- 3/8” BSP of the hose

3M™ Compressed Air Supply Tubes and Couplings

7.5 m Coiled Air Hose
(Output 3/8” (both ends)
Part. No. 308-00-40P

10 m Standard duty hose
(Output 3/8” (both ends)
Part. No. 308-00-30P

10 m Standard duty
Antistatic, high temperature tube
(Output 3/8” (both ends)
Part. No. 308-00-72P

30 m Standard duty hose
(Output 3/8” (both ends)
Part. No. 308-00-31P

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10 m Standard duty
Antistatic, high temperature tube
(Output 3/8” (both ends)
Part. No. 308-00-72P

30 m Standard duty hose
(Output 3/8” (both ends)
Part. No. 308-00-31P

2-Way Branch Set
3/8” female pipe thread BSP, incl. 3/8” BSP adapters
Part. No. 312-03-01P3

3-Way Branch Set
3/8” BSP, incl. 3/8” BSP adapters
Part. No. 312-03-00P3

Coupling Set 3/8” BSP
Rectus 25,
Part. No. 530-12-82P3
CEJN 342
Part. No. 530-12-81P3

Coupling Plug
1/4” BSP,
Rectus 25
Part. No. 530-12-52P3
CEJN 342
Part. No. 530-12-53P3

Respirator Systems
The 3M™ Aircare™ ACU-01/ACU-02 Filtration Unit can be combined with all 3M™ Supplied Air Respirator Systems. The three-stage filtration system supplies highest quality air to the Supplied Air Respirator System and compressed air tools by removing water and oil aerosols, particles and odours from the facility-supplied compressed air.

**3M™ Aircare™ Filtration Unit**

The Filtration Unit is available as either a portable freestanding unit or wall-mounted unit.

**Adapters and connectors**

- Can be used for up to three users (or two users plus air tool)
- Differential Pressure Indicator
- Pressure regulator (lockable)
- Pressure gauge
- Pre-filter
- Semi-Auto Drains
- Coalescing filter
- Adsorber filter with activated charcoal

**Inputs and Outputs**

- Input: 1/2” or 3/8” female pipe thread BSP
- Output: 3/8” BSP

**Wall-mounted**

- Includes 3/8” to 1/2” BSP adapter
- Includes 2 adapters, 3/8” BSP to 3/8” male pipe thread BSP
- Output: 3/8” BSP

**Output pressure can be adjusted with the integrated pressure regulator. The Aircare™ Filtration Unit can be used with input pressures up to 10 bar.**
3M™ S-200 Supplied Air System

The 3M™ S-200 Supplied Air System is a comfortable and versatile supplied air system for all 3M™ 6000 and 3M™ 7000 Series Half and Full Face Masks. The S-200 system by 3M can be used as a standard airline respirator or in dual-mode with filter back-up when air supply is disconnected.

Applications
+ Painting

+ Breathing tube to air regulator
+ Bayonet connector for breathing tube
+ S-200 Air Regulator
+ Pressure relief valve
+ Safety: High respiratory protection
+ Comfort: Swirling air flows in from the sides
+ Comfort: lightweight, balanced system
+ Low maintenance

3M™ S-200 Supplied Air System
Approval: EN139
NPF: Half facepiece:
- 50 x Threshold Limit Value
Full facepiece:
- 200 x Threshold Limit Value
Working pressure: 3-8 bar
Airflow to facepiece: 140-330 l/min

Accessories
The 3M™ S-200 System can be optionally combined with all 2000, 5000 and 6000 Series Filters by 3M.

- Particulate Filter 2000 Series
- Particulate Filter Inserts 5000 Series
- Gas/Vapor and Combination Filters 6000 Series
The Visionair system offers a stand alone solution for paint-spraying applications. Paint-spraying guns and other hand-held air-tools can be attached and powered by the supplied air spray gun hose.

**Features and Benefits**
- Adjustable flip-up acetate visor
- Protective hood for neck and hair
- Choice of left- or right-handed mounting capabilities
- Nuisance odour filter
- Adjustable air flow
- High respiratory protection class

**3M™ Visionair™ Supplied Air Faceshield Respirator**

- Weight: 460g
- Approval: EN270, EN1835 LDH3
- NPF: 200 x Threshold Limit Value

**Accessories**

- Brow seal: 3002218-0P1
- Face seal (pack of 3): 2002318-0P3
- Foam face and brow seal: 2002346-0P1

- Peel-off visors (pack of 20): 310-23-74P20
3M™ Individual Systems

3M™ Powerflow™ Powered Air Respirator

The Powerflow Powered Air Respirator consists of a 3M™ Crusader Full Facepiece and facepiece-mounted turbo unit with P3 filter. Powerflow-Plus System offers effective protection against potential health hazards when stripping or disposing of asbestos containing products. The combination of full facepiece, turbo unit and particulate filter complies with protection class TM3 PSL (as per prEN 147) and can be used to provide protection up to 2000 times the relevant TLV.

Applications
+ Asbestos Stripping

+ Lightweight full facepiece with wide viewing area (panorama vision)
+ Facepiece made of rubber
+ Equipped with one P3 filter for use against solid and liquid aerosols
+ Compact turbo unit with DIN knuckle threads
+ Belt-mounted 8-hour system battery
+ Electronic battery charger
+ Smooth shape allows easy decontamination

Accessories

<table>
<thead>
<tr>
<th>Item</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>P3 Filter (pack of 3)</td>
<td>450-00-02F3</td>
</tr>
<tr>
<td>Prefilter, pads and holder (pack of 10)</td>
<td>461-00-2B10</td>
</tr>
<tr>
<td>Decontamination kit and canister cover</td>
<td>024-04-02P</td>
</tr>
</tbody>
</table>

3M™ Powerflow™ Respirator with Silicone Full Facepiece
Approval: prEN 147 (rev.)
Protection class: TM3
NPF: 2000 x TLV (Turbo unit ON), 1000 x TLV (Turbo unit OFF)
The 3M™ Airstream™ system is a helmet-mounted powered air respirator...
Dedicated to Worker Protection

3M has a long history of applying its innovative materials to the challenges of worker protection. In 1972, 3M introduced the first US government approved filtering facepiece respirator.

Today, as one of the world’s leading suppliers of respiratory protection, our goal is to ensure that we satisfy your needs through exceptional leadership, expertise, quality and service.

Contact your local 3M office for further details.