



Powered & Supplied Air Respirators

Work in a World of Comfort

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

Respiratory Protection



Respiratory, Eye and Face Protection



Respiratory, Eye, Face and Hearing Protection



Respiratory, Eye, Face and Head Protection, with Neck/Shoulder Coverage



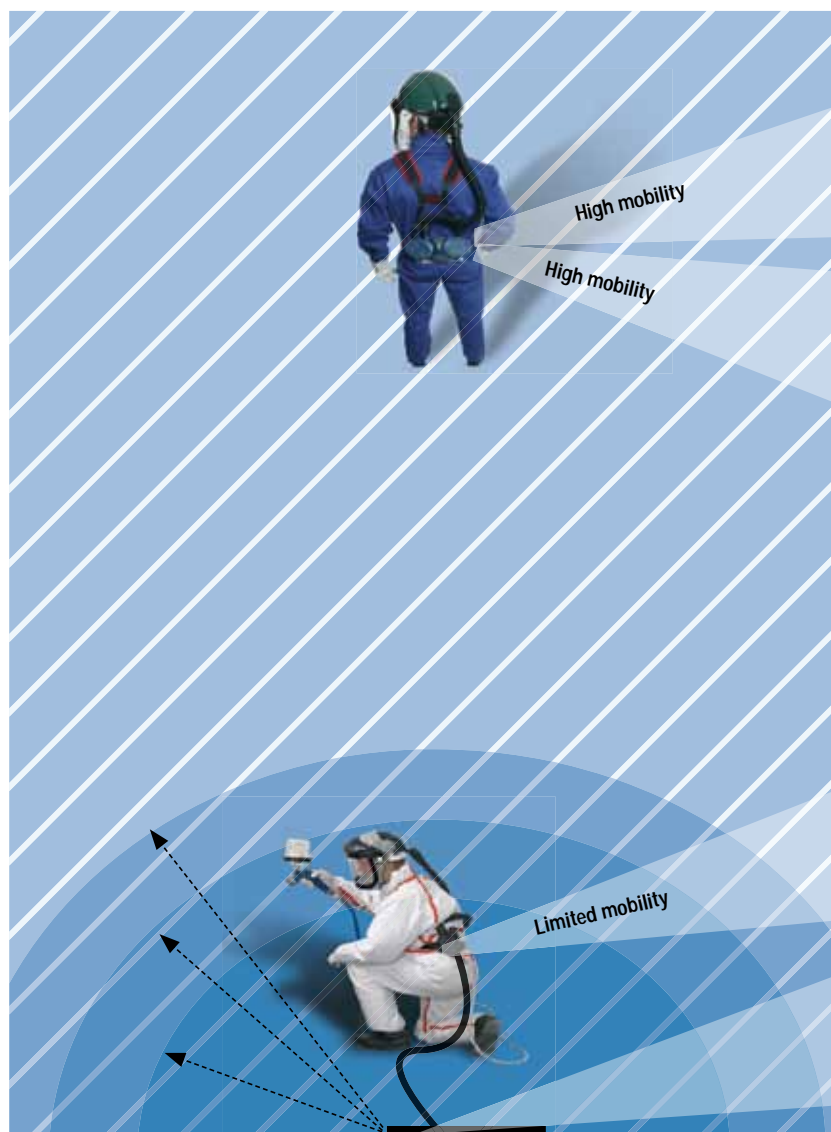
3M™ Powered & Supplied Air Respirators

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

3M™ Powered & Supplied Air Respirators

Modular Systems



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.

Individual Systems



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



BT-20 S/L



BT-30



BT-40

Particulate only (nuisance level organic vapour and acid gas options available)



3M™ Versaflo™ TR-300
Powered Air Turbo

Powered Air Turbos

Particulate + Gas & Vapour



3M™ Jupiter™ Powered Air Turbo

Intrinsically Safe
Particulate + Gas & Vapour



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
- A2BEK1P Filters
- K1P Filters
- ABE1P Filters



Battery

- 4 hour battery
- 8 hour battery
- 4-hour IS battery



Charger

- Single Station Charger
- 10-station Multi Charger

Welding Shields, High Temperature Helmet and Welding Helmets

Welding Shields



HT-622
HT-629
HT-639

High Temperature
Helmet



HT-707

Welding Helmet



HT-748
HT-749

Breathing Tube Accessories



BT-922

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

Individual Respirator Systems

Helmet-Mounted Powered Air Respirator



3M™ Airstream™ Helmet

Face-Mounted Powered Air Respirator



3M™ Powerflow™ 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.

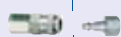
Belt unit coupling



Air Supply Tube



Air supply tube coupling set



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



3M™ Modular Respirator Systems

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



reddot design award
honourable mention 2011

- + 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)

Belts

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

3M™ Modular Respirator Systems



3M™ Jupiter™ Powered Air Turbo

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.

Industries

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

- + 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.



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.



Filters		Batteries (NiMH)	
P Filter (pack of 2)	(450-00-25P2)	Battery Pack - 8 hour	(007-00-64P)
A2P Filter (pack of 2)	(453-00-25P2)	Battery Pack - 4 hour	(007-00-63P)
ABE1P Filter (pack of 2)	(456-18-25P2)	Battery Pack - 4 hour IS battery (provided as part of IS Kit with pouch).	(085-12-00P)
A2BEK1P Filter (pack of 2)	(453-09-25P2)		
K1P Filter (pack of 2)	(456-18-25P2)		
Pre-filter Pack (pack of 24)	(461-00-02P24)		
Chargers			
Intelligent Charger		003-00-58PEU	
Jupiter 10 Station Intelligent Charger		003-00-59P	

3M™ Modular Respirator Systems



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°, making them a good choice for workers exposed to either uncomfortably hot or cold temperatures.



Please see the data sheet for the headtop used with the unit for information on protection class ratings.

3M™ Modular Respirator Systems



3M™ Versaflo™ S-Series Integrated Suspension Headcovers and Hoods

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-133 Headcover

General purpose, cost-effective fabric. Fabric material: 2-layer polypropylene spunbond/laminated film. Visor material: PETG.



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-433 Hood

Includes neck and shoulder coverage. Fabric material: 2-layer 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.

3M™ Air Delivery Unit	Standards with S-Series Headcovers and Hoods*	NPF**
3M™ Versaflo™ TR-300	EN12941 TH3, EN166 2:F:3	500
3M™ Jupiter™	EN12941 TH3, EN166 2:F:3	500
3M™ Versaflo™ V-500E/V-200E/V-100E	EN14594 3A, EN166 2:F:3	200

* 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™ Modular Respirator Systems



3M™ Versaflo™ S-Series Premium Hoods with Reusable Suspensions



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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™ 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

Features a double-shroud design for its respiratory seal. The inner shroud can be tucked into a shirt or protective coverall, which allows excess air to be channeled over the body, providing additional comfort.

Fabric material: 2-layer polypropylene spunbond/laminated film.
Visor material: PETG.



3M™ Versaflo™ S-757 Painters Hood

Fabric specifically intended to help capture paint overspray. Double shroud design.
Fabric material: 3-layer polypropylene spunbond/laminated film/spunbond.
Visor material: Coated polycarbonate



3M™ Versaflo™ S-855E Hood

Sealed seam hood for liquid chemical splash environments. Knitted inner collar design.
Fabric material: Zytron® 200.
Visor material: Coated polycarbonate



Zytron® is a registered trademark of Kappler.

3M™ Air Delivery Unit	Standards with S-Series Headcovers and Hoods*	NPF**
3M™ Versaflo™ TR-300	EN12941 TH3, EN166 2:F:3	500
3M™ Jupiter™	EN12941 TH3, EN166 2:F:3	500
3M™ Versaflo™ V-500E/V-200E/V-100E	EN14594 3A, EN166 2:F:3	200

* 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™ 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 hazard

Applications

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



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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 Earplug 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 face seal for dusts, spraying and chemical processing.
Fabric material: Polyurethane coated polyamide.

3M™ Versaflo™ M-107 Faceshield

Features a flame resistant face seal for applications with hot particles.
Fabric material: flame resistant polyester.

Accessories

M-928 Peel-O Visor Covers (pack of 10)
M-935 Standard face seal (white) (pack of 5)
M-936 Comfort face seal (pack of 5)
M-937 Flame resistant face seal (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-O Visor Covers

Available accessory to protect the visor.



3M™ Air Delivery Unit	3M™ Versaflo M-100 Series Faceshields	
	Standards	NPF**
3M™ Versaflo™ TR-300	EN12941 TH2, EN166 1:B:3	50
3M™ Jupiter™	EN12941 TH2, EN166 1:B:3	50
3M™ Versaflo™ V-500E/V-200E/V-100E	EN14594 2B*, EN166 1:B:3	50

* The M-Series Faceshields and Helmets meet the higher strength (B) 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™ Modular Respirator Systems



3M™ Versaflo™ M-300 Series Helmets

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



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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 Earplug 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-306 Helmet

Features a general purpose face seal for construction, chemical applications and heavy industry.

Fabric material: Polyurethane coated polyamide

3M™ Versaflo™ M-307 Helmet

Features a flame resistant face seal for applications with hot particles.

Fabric material: flame resistant polyester

Accessories

M-928 Peel-O Visor Covers (pack of 10)
M-935 Standard face seal (white) (pack of 5)
M-936 Comfort face seal (pack of 5)
M-937 Flame resistant face seal (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™ Air Delivery Unit	3M™ Versaflo M-300 Series Helmets	
	Standards	NPF**
3M™ Versaflo™ TR-300	EN12941 TH3, EN166 1:B:3, EN397	500
3M™ Jupiter™	EN12941 TH2, EN166 1:B:3, EN397	50
3M™ Versaflo™ V-500E/V-200E/V-100E	EN14594 3B*, EN166 1:B:3, EN397	200

* The M-Series Faceshields and Helmets meet the higher strength (B) 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™ Modular Respirator Systems



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.

Applications

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



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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



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.

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

Accessories

M-928 Peel-O 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™ Air Delivery Unit	3M™ Versaflo M-400 Series Helmets	
	Standards	NPF**
3M™ Versaflo™ TR-300	EN12941 TH3, EN166 1:B:3, EN397	500
3M™ Jupiter™	EN12941 TH3, EN166 1:B:3, EN397	500
3M™ Versaflo™ V-500E/V-200E/V-100E	EN14594 3B*, EN166 1:B:3, EN397	200

* The M-Series Faceshields and Helmets meet the higher strength (B) 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™ Modular Respirator Systems



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 face seal, 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



- + Easy-to-fit comfortable, elasticated, knitted face seal



- + New comfortable easy-adjust harness with double comfort band
- + Harness/airduct in one robust assembly



- + Super Coverage
- + Lifiable 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. Headtop weight: 595g

- + 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

3M™ Air Delivery Unit	3M™ HT-600 Series Shields	NPF**
3M™ Versaflo™ TR-300	EN12941 TH2, EN175	50
3M™ Jupiter™	EN12941 TH2, EN175	50
3M™ Versaflo™ V-500E/V-200E/V-100E	EN14594 2A*, EN175	50

* 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™ Modular Respirator Systems



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

- + Smelting
- + 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™ HT-707
Safety helmet, white,
heat resistant shell
Weight: 715 g



3M™ HT-707
With additional radiant
heat kit
Weight: 850 g



3M™ HT-748 / HT-749
Welding shield with
safety helmet, black.
Weight: 900 g

As an alternative to the fixed shade filter, the HT-748/HT-749 can be equipped with the optional Auto Darkening Filter in the standard format 90 x 110 mm.

3M™ Air Delivery Unit	3M™ HT-707 Safety Helmet	3M™ HT-748/749 Helmets	NPF**
3M™ Versaflo™ TR-300	EN12941 TH2, EN166 2:B:3:9, EN397	EN12941 TH2, EN166 2:B:3:9, BS1542 Class 4, EN397	50
3M™ Jupiter™	EN12941 TH2, EN166 2:B:3:9, EN397	EN12941 TH2, EN166 2:B:3:9, BS1542 Class 4, EN397	50
3M™ Versaflo™ V-Series	EN14594 2A*, EN166 2:B:3:9, EN397	EN14594 2A*, EN166 2:B:3:9, BS1542, Class 4, EN397	50

* The 700 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™ Modular Respirator Systems



3M™ Versaflo™ BT-Series Breathing Tubes

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

BT-922: Disposable breathing tube cover

BT-926: Flame resistant breathing tube cover

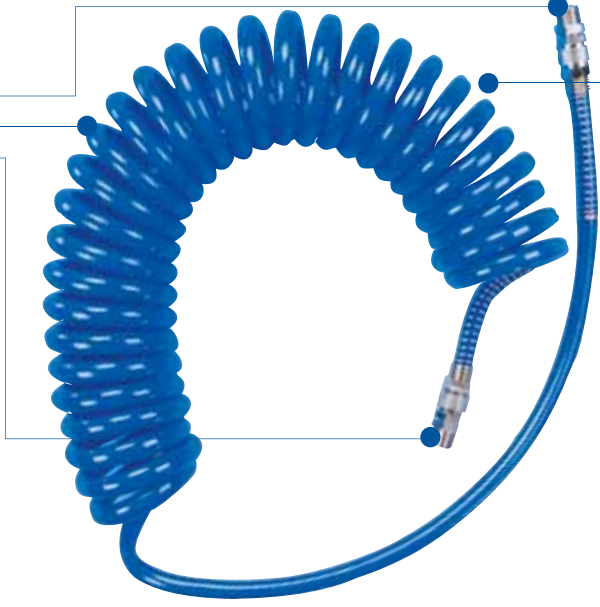
3M™ Modular Respirator Systems



3M™ Compressed Air Supply Tubes and Couplings


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


**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




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

3M™ Modular Respirator Systems



3M™ Aircare™ Filtration Unit

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.

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



- + 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

Adapters and connectors

- + Input: 1/2" or 3/8" female pipe thread BSP
- + 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™ Aircare™ Filtration Unit ACU-02, Freestanding
Input: 1/2" or 3/8" female pipe thread BSP
Output: 3/8" BSP



3M™ Aircare™ Filtration Unit ACU-01 Wall Mounted
Input: 1/2" or 3/8" female pipe thread BSP
Output: 3/8" BSP



Wall mounted

3M™ Individual Systems



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



3M™ Visionair™ Supplied Air Faceshield Respirator

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		Accessories	
Brow seal	3002319-0P1	Peel-o visors (pack of 20)	310-23-74P20
Face seal (pack of 3)	2002318-0P3		
Foam face and brow seal	2002346-0P1		



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



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)

Accessories

P3 Filter (pack of 3)	450-00-02P3
Prefilter, pads and holder (pack of 10)	461-00-20P10
Decontamination kit and canister cover	024-04-02P



3M™ Individual Systems



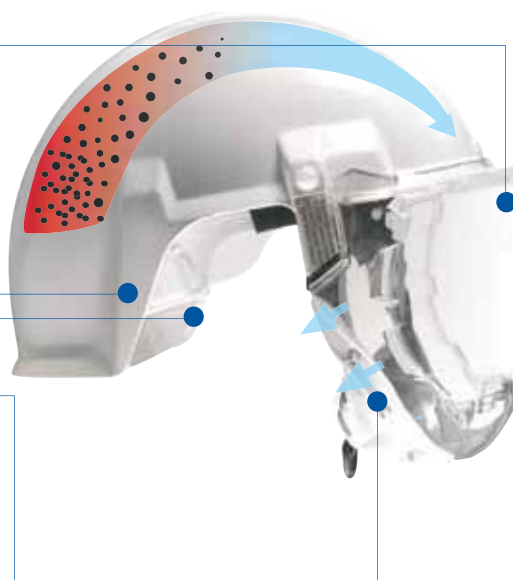
3M™ Airstream™ Respirator

The 3M™ Airstream™ system is a helmet-mounted powered air respirator...where the blower motor and filter components are integrated into the helmet. The helmet is powered by a lightweight belt-mount battery. The Airstream Powered Air Respirators have been very popular in industry for many years. They offer protection class THP2 (to EN 146) and an NPF of 20 x TLV against particulates only.

Applications

- + Metalworking
- + Foundries
- + Welding
- + Construction Work

- + Polycarbonate visor offers eye and face protection to EN166
- + Lightweight, robust helmet shell
- + Integrated turbo motor including filter cartridge and prefilter



- Can be optionally equipped with earmuffs
- + Head and face seals
- + Well balanced system guarantees high wearing comfort
- + Lightweight belt-mounted 5 or 8-hour NiCd battery
- + Electronic battery charger
- + Combines respiratory, head, eye and face protection; hearing protection optional

3M™ Airstream™ Helmet AH4

Protection against solid particles



3M™ Airstream™ Helmet AH7

Protection against solid and liquid particles plus heat resistant shell.



3M™ Airstream™ Helmet AH11

Black helmet for welding with fixed shade welding filter (90 x 110 mm) and clear visor.



Warning: Respirator systems with open headtops only provide respiratory protection while the turbo motor is running. If the motor fails, you must leave the contaminated area immediately.

Accessories	Part No
Pre-filter (pack of 10)	060-22-00-P10
High efficiency main filter (AH4) (pack of 10)	060-23-04P10
Main filter charcoal (AH7) (pack of 10)	060-23-11P5
Visor standard (polycarbonate) (pack of 5)	060-75-00P5
Visor solar tinted (1.7/1.8) (pack of 5)	060-75-02P5
Visor scratch resistant (pack of 5)	060-75-01P5
Radiant heat snood (helmet cover)	060-50-01P
Radiant heat snood (neck cover)	060-50-02P
Tinted, heat resistant over visor	VIS-19
Accessory bracket	061-55-00P
Peel-off visor (direct fix) (pack of 10)	087-09-04P10
Peel-off visor kit	060-75-13P
Over visor carrier assembly	061-55-10P

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.

