



Science.  
Applied to Life.™



# Work in a world of comfort.

Clean breathing air is essential when working in areas where hazardous contaminants are present. 3M™ Versaflo™ Powered and Supplied Air Respirator Systems provide comfortable and easy-to-use protection for a wide range of environments, applications and hazards.





# 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. Our success begins with our ability to apply our technologies — often in combination — to an endless array of real-world customer needs, such as worker protection systems.

## Credibility & leadership

3M produces thousands of imaginative products, and we are a leader in scores of markets, including the global respiratory protection industry. With sales in nearly 200 countries, 3M has 76,000 employees worldwide. Our specialized distribution networks can help your workforce in the careful selection of, and training in, respiratory equipment.

## Proven solutions

Workers want respiratory protection equipment that is comfortable, lightweight and convenient. 3M delivers protection products that are high-quality, high-comfort, professional-grade equipment, advanced over years of research and development, customer feedback and customer success.

## And now:

3M™ Versaflo™ Respirator Systems. The new 3M Versaflo Respirator Systems represent an enormous effort by 3M to accomplish three major goals:

- simplify the equipment selection process.
- increase system versatility.
- improve user comfort every step of the way.





# A highly versatile range of respirator systems.

Many users of half- and full-facepiece respirators are taking a second look at powered and supplied air systems for reasons that go beyond mere compliance. 3M™ Versaflo™ Respirator Systems are a comprehensive approach to worker protection systems based on comfortable-to-wear modules.

## Integrated protection

Safety managers can configure modules and accessories to help protect users from a variety of combined hazards.

## Flexibility

Each system has three easy-to-select modules — an air delivery unit, a headtop and a breathing tube — that can be combined into dozens of system configurations. It is the ultimate in flexibility for handling changing user environments, needs and comfort preferences.

## All-day comfort

With 3M Versaflo Respirator Systems, pressure on the face, breathing resistance and heat build-up are all greatly reduced when compared with non-powered and supplied air tight-fitting facepieces, creating all-day comfort for the user.

**Easier to breathe.** With 3M Versaflo Respirators, flowing air is provided to the user, reducing the additional breathing effort required for half- and full-facepiece respirators. This increases user comfort at all times, but is especially important during periods of strenuous labour.

**Excellent airflow.** 3M™ Versaflo™ Headtops direct a comfortable stream of flowing air to where workers need it most: the head and face. The moving airflow can make hot environments more tolerable while greatly reducing visor fogging. When using the new 3M™ Versaflo™ Powered Air Turbo TR-600 or TR-300+, a range of multiple selectable airflows are available. And, when using the appropriate 3M™ Versaflo™ Supplied Air Regulator, the airflow can also be made cooler or warmer when working in hot or cold environments.

## Easy x three

Easy to select. Easy to use. Easy to maintain. For instance, most replacement parts can be installed by hand or with common tools (like a screwdriver) in a matter of moments.



## ► Simplicity

- Easy-to-select compatible modules.
- TR-600 and TR-300+ turbos have selectable multiple airflows through a simple, intuitive, easy-to-use two-button operation, and the particulate filter and battery status indicators provide constant updates during use.
- Most user interface/adjustment points are highlighted in blue for convenience.
- QRS (Quick Release Swivel) breathing tubes allow fast and easy connection.
- Easily removable parts allow simple cleaning, maintenance and replacement.
- Many common parts across the range.
- Accessories and options to suit different applications.



## ► Comfort

- Controlled airflow delivers steady flow as battery discharges or filter loads with particulates.
- Lightweight, compact and well-balanced designs.
- Breathable air is provided to the wearer, reducing the additional breathing effort required.
- Adjustable airflow feature in headtops distributes airflow where the user wants.
- Quiet system with reduced motor noise and air whistling.
- Soft face seals and inner collars.
- Multiple size adjustment options allow for a comfortable fit.
- Provides excellent peripheral and downward vision.

## Protection against multiple hazards

Respiratory protection

Eye, face and hearing protection

Head protection, neck/shoulder coverage



# Modular means versatile.

It's easy to select and build a system.

## ▶ 1 | Choose your headtop

3M™ Versaflo™ S-Series Headtops			3M™ Versaflo™ M-Series Headtops		
					
<b>3M™ Versaflo™ S-133/333G</b> Integrated Headcover	<b>3M™ Versaflo™ S-433/533</b> Integrated Hoods	<b>3M™ Versaflo™ S-655/657/757/855E</b> Reusable Suspension Hoods	<b>3M™ Versaflo™ M-106/107</b> Faceshields	<b>3M™ Versaflo™ M-306/307</b> Helmets	<b>3M™ Versaflo™ M-406/407</b> Helmets with Shrouds

## ▶ 2 | Choose the appropriate breathing tube

3M™ Versaflo™ BT-Series Breathing Tubes		
		
<b>3M™ Versaflo™ BT-20 S/L</b> Breathing Tube	<b>3M™ Versaflo™ BT-30</b> Breathing Tube*	<b>3M™ Versaflo™ BT-40</b> Breathing Tube

## ▶ 3 | Choose your air delivery unit

3M™ Powered Air Respirators			3M™ Versaflo™ Supplied Air Regulators		
					
<b>3M™ Versaflo™ TR-300+</b> Powered Air Respirator	<b>3M™ Versaflo™ TR-600</b> Powered Air Respirator	<b>3M™ Jupiter™</b> Powered Air Respirator	<b>3M™ Versaflo™ V-100E</b> Air Cooling Unit	<b>3M™ Versaflo™ V-200E</b> Air Heating Unit	<b>3M™ Versaflo™ V-500E</b> Regulator

\* BT-30 not approved for use with M-400 Headtop/TR-600 Powered Air Turbo combinations. BT-20S/L or BT-40 Breathing Tube should be used.

### 3M™ HT-600 Series Welding Shields



**3M™ HT-622**  
Welding Shield



**3M™ HT-629**  
Welding Shield



**3M™ HT-639**  
Welding Shield

## Want an easier way to select a system?

This selection process can be made even easier by choosing 3M's air delivery unit starter kit, which includes everything apart from your headtop.

► For more details see air delivery unit section.





# 3M™ Versaflo™ TR-300+ Powered Air Respirator

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

## Lighter and smaller

- The turbo has a slim profile designed for use in tight spaces.
- The weight of the turbo is approx. 1135g (including particulate filter, high-capacity battery and standard belt). It also keeps its light weight close to the user's back, reducing the leverage effect that can cause turbos to feel heavier.
- The compact shape and air inlet design help make sitting possible without compromising the airflow intake.

## Controlled airflow

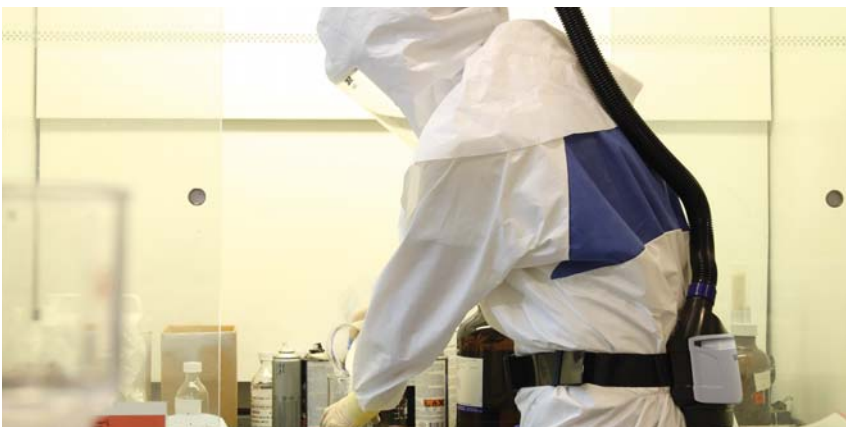
- Sophisticated electronics keep the factory-calibrated airflow at 170 l/min (MMDF), eliminating the need for regular calibration by the user. Even as the battery discharges, or the filter becomes loaded with particulates, the unit delivers a steady flow of air.
- 185l/mn and 205l/mn airflow rate options for user comfort.

## Simple yet comprehensive controls

- Battery charge status, selected airflow and particulate filter loading status indicators.
- Audible and LED alarms signal to the user when there is either low battery charge or low airflow — for example, due to a fully loaded particle filter.
- LED lights on the battery itself indicate its charge status.

## Intelligent power

- The standard battery runs continuously for approx. 4.5 to 6 hours, while the high-capacity battery runs for approx. 9 to 12 hours (with new filter and new fully charged battery in both cases). Recharging time is less than 3 hours for the standard battery (less than 3.5 hours for the high-capacity battery).
- The lightweight lithium ion battery quickly charges and has no memory effect or heavy metals. It can be easily removed for charging.
- Intelligent chargers help maintain the optimum battery performance and are available in single-battery or four-battery stations.



For information on protection factors, please see the data on the headtop used with the unit.





### Straightforward, minimal maintenance

- All maintenance can be done by hand. The battery, filter and pre-filter can all be changed quickly and easily by hand.
- The belt and turbo unit have smooth surfaces with facilitating fast wipe-downs for easier cleaning.
- IP53 rating. Suitable for use in decontamination shower.
- A window on the turbo allows instant identification of the installed filter.
- Durable brushless motor for superior reliability.

### Options for diverse environments

- Filters:
  - Pre-filter.
  - Particulate filter.
  - Particulate filter that also reduces nuisance-level organic vapours.\*
  - Particulate filter that also provides protection against hydrogen fluoride, with performance up to 10 x Occupational Exposure Limit (OEL), as well as offering nuisance-level acid gas performance.\*
- For welding and grinding applications, a spark arrestor reduces the risk that sparks and other hot materials will come in contact with the filter and motor.
- Belts:
  - Standard webbing belt.
  - Coated, easy-clean belt.
  - Spark-resistant leather belt for heavy-duty applications.
  - Braces and a backpack are also available.
- Standard and high-capacity battery.
- Single Charger and 4-Station Battery Charger kit.
- EN12941 TH2/TH3.



### 3M™ Versaflo™ TR-302E+ Turbo Unit

The 3M Versaflo TR-302E+ Turbo Unit comes with a filter cover, spark arrestors (x2) and an airflow indicator.

### 3M™ Versaflo™ TR-315E+ Starter Kit

This 3M Versaflo TR-315E+ Starter Kit (photo) includes the TR-302E+ Turbo Unit, particulate filter, pre-filter, standard belt, airflow indicator, spark arrestors (x2), high-capacity battery pack, battery charger kit (not shown) and self-adjusting breathing tube.

\* Nuisance level refers to concentrations below the occupational exposure limit (OEL).

# 3M™ Versaflo™ TR-600 Powered Air Respirator

Thanks to comprehensive research and an in-depth understanding of user needs, this is the most advanced and versatile powered air solution from 3M yet. Simply put, it's designed to make breathing and working easier.

## Protection

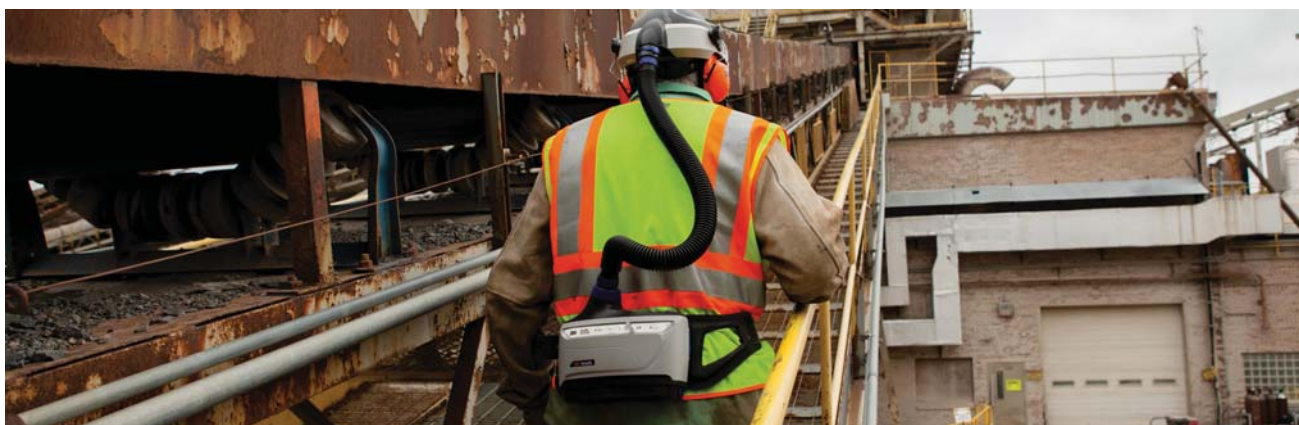
The evolutionary 3M™ Versaflo™ Powered Air Turbo TR-600 delivers protection, comfort and performance with a lithium-ion battery, adjustable airflow options and an expanded range of CE-approved filters for protection against hazards such as particulates, organic vapours

and acid gases. All this, with the compatibility of the 3M™ Versaflo™ Respirator Systems family of products offering integrated protection for eye, head, face, skin and respiratory protection to EN 12941 Class TH2 or TH3, depending on the headtop.

## Versatility

Because every work environment presents a unique set of needs and challenges, customised solutions are a must. The TR-600 is designed to be compatible with multiple configurations of headtops, breathing tubes, batteries, filters and more. Choose a system configuration that meets your prioritised needs, addressing comfort, cost and performance.





## Endurance

The 3M™ Versaflo™ Powered Air Turbo TR-600 is equipped with two battery options that are more efficient and intuitive than ever. TR-600 batteries have a long run time and short charging time, which ultimately reduce the user's downtime. The TR-600 battery has intuitive charge-level indicators and user interface to help make sure you're prepared and getting the most out of the battery.

- LED status lights for battery charge on both the battery and the turbo.
- Low-charge warnings, including vibratory, audible and visual alarms.
- Provides approximately 15 minutes of warning prior to automatic low-power shutdown.

## Comfort

Our powered air respirator systems endure heavy use and long wear time. Workers need a system that keeps them comfortable and protected for their workday. The robust and ergonomically designed 3M™ Versaflo™ Powered Air Turbo TR-600 has been thoughtfully engineered to maximise comfort — even for the longest shifts.

- Multiple airflow rate options for user comfort.
- Ergonomically designed to fit close to the body and allow for greater movement in tight work spaces.
- Multiple belt size adjustments for proper fit and comfort.
- Belt designed with flexible air channels to minimise heat buildup.

## Ease of use

The 3M™ Versaflo™ Powered Air Turbo TR-600 features a user-friendly design with intuitive, coloured interactive touch points and vibratory, audible and visual low-flow and low-battery indicators. This robust product, with its smooth surface, is quick and easy to clean.

- Battery charge and particulate filter loading status indicators.
- Low-flow and low-battery alarms.
- Tight-fitting facepiece option with automatic airflow adjustment.
- Easy tool-free maintenance.
- Colour-indicated touch points.
- Inlet plugs for full submersion and cleanup; meets IP54 and IP67 ratings for use in decontamination shower and temporary submersion when used with cleaning and storage plugs.
- Pre-calibration makes product ready to use, directly out of the box.



For information on protection factors, please see the data on the headtop used with the unit.



# Convenient ways to buy.

## ► 1 | Starter Kit

**3M™ Versaflo™ Powered Air Turbo Starter Kit TR-619E includes:**

- TR-602E Powered Air Turbo.
- TR-6310E (A2P) Filter.
- TR-6300FC Filter Cover.
- BT-30 Length Adjusting Breathing Tube.
- TR-627 Easy Clean Belt.
- TR-632 High Capacity Battery.
- TR-641E Single Station Battery Charger.
- TR-6600 Pre-Filter (x 10).
- TR-662 Spark Arrestor (x 2).
- TR-971 Airflow Indicator.



## ► 2 | Total Customisation

If you need full customisation of your 3M™ Versaflo™ Powered Air Turbo TR-600 system, you can purchase all components separately (see tables on next page).



# 3M™ Versaflo™ TR-600 Powered Air Respirator

## POWERED AIR TURBO



## FILTERS



## BATTERIES



## CHARGERS



## BELTS



## SPARES & ACCESSORIES



### Powered Air Turbo

TR-602E	Includes:	TR-971 Air Flow Indicator TR-662 Spark Arrestor (x 2)
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### Filters

### Filter Covers

TR-6710E P	TR-6700FC
TR-6820E P + Nuisance Odour* Organic Vapour Filter and Acid Gas (Hydrogen Fluoride up to 10 x Threshold Limit)	TR-6800FC
TR-6110E A1P	TR-6100FC
TR-6130E ABE1P	TR-6100FC
TR-6310E A2P	TR-6300FC
TR-6580E ABE2K1HgP	TR-6500FC

\*'Nuisance Odour' refers to concentrations below the threshold limit value.

### Batteries

TR-630 Standard Battery
TR-632 High-Capacity Battery

### Chargers

TR-641E Single Station Battery Charger Kit
TR-644E 4-Station Battery Charger Kit

### Belts

TR-626 High-Durability Belt
TR-627 Easy-Clean Belt

### Spares & Accessories

TR-971 Airflow Indicator	TR-653 Cleaning and Storage Kit
TR-6600 Pre-filter	BPK-01 Backpack
TR-662 Spark Arrestor	TR-655 Backpack Adaptor
TR-651 Filter Latch Assembly	TR-329 Braces

# 3M™ Jupiter™ Powered Air Respirator

## Protection from particulates and/or gases and vapours

The existing 3M™ Jupiter™ Powered Air Respirator is fully compatible with all 3M™ Versaflo™ Headtops and Breathing Tubes. The 3M Jupiter Respirator provides respiratory protection against particulate and gaseous contaminants (particulate only and combined particulate/gas and vapour filters are available). It can also be used in potentially explosive atmospheres when fitted with the intrinsically safe pouch and battery (available as the Intrinsically Safe Kit).

Ergonomically designed to sit at the base of the user's back, the unit's low weight is carried mostly on the user's hips via the padded comfort belt. As a result, the 3M Jupiter Respirator is comfortable enough to wear for entire work shifts. Includes decontamination belt, airflow indicator and calibration tube.

## User benefits:

- Modern, ergonomic design.
- 5 filters for wide range of applications.
- Decontamination comfort belt for improved fitting and easy cleaning.
- IP53 rating. Can be worn during shower decontamination.
- 3M™ Jupiter™ Intrinsically Safe Kit option.
- Optional braces.
- Audible and visual alarms.
- Intelligent battery charger, with 10-station charger available. Economy (4-hour) or high-capacity (8-hour) batteries.
- EN12941 TH2/TH3.

## ▶ Intrinsically Safe Kit available



## 3M™ Jupiter™ Starter Kit

- Standard 3M Jupiter Turbo.
- Decontamination belt and clip.
- Filter gaskets.
- Airflow indicator and calibration tube.
- Pair of organic vapour and particulate (A2P) filters.
- Pre-filters.
- Self-adjusting breathing tube.
- 8-hour rechargeable battery (NiMH).
- Battery charger.



## 3M™ Jupiter™ Powered Air Turbo Unit

Standard 3M Jupiter turbo unit includes decontamination belt and clip, airflow indicator and calibration tube.





# 3M™ Versaflo™ V-Series Supplied Air Regulators

## 3M™ Versaflo™ V-500E Regulator

3M Versaflo V-500E Regulator ensures an individually adjustable, consistently controlled airflow. The regulator requires a working pressure of 3.5 to 8 bar and is extremely quiet due to the integrated silencer (<65 dBA). An integrated warning whistle warns the user of low airflow into the headtop.

- EN14594 2A/2B and 3A/3B.
- Airflow: 170–305 l/min.
- Weight: 550g.



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

- Regulator requires a working pressure of 4–6 bar.
- EN14594 2A/2B and 3A/3B.
- Airflow: 170–500 l/min.
- Weight: 605g (V-100E), 499g (V-200E).



# 3M™ Versaflo™ S-Series Headcovers and Hoods

**Comfortably worn by more users.** Based on a computer modeling of a worldwide sampling of head sizes, 3M™ Versaflo™ S-Series Suspensions, through their sizing and adjustment options, will comfortably fit more users than previous models. Their loose-fitting designs can mean more comfort for the entire shift when compared with tight-fitting alternatives.

### Improved visibility

The visors have an excellent field of view, particularly downwards, with reduced curvature for decreased reflection and glare. Their design minimises the potential for visor creasing and visual distortion.

### Added protection

3M Versaflo S-Series Headcovers and Hoods meet the highest respiratory performance requirements (TH3) for this type of product when used with specific 3M™ Air Delivery Units. In addition, they also provide eye and face protection to EN166 — liquid splash and low energy impact.



### Improved shape

The designs of 3M Versaflo S-Series Headcovers and Hoods more closely profile the user's head for improved appearance compared with some designs that tend to 'peak'.

### Excellent airflow

All 3M Versaflo S-Series Headtop users benefit from excellent airflow distribution for improved comfort, lower noise and reduced fogging.

## Integrated suspension headcovers and hoods

Ready to use straight out of the box. Permits fast replacement of soiled hoods. Available in two adjustable sizes: S/M and M/L.



**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: Polypropylene coated non-woven polypropylene.  
Visor material: PETG



**3M™ Versaflo™ S-533 Hood** Neck and shoulder coverage with soft, low-linting fabric that more readily drapes over user.

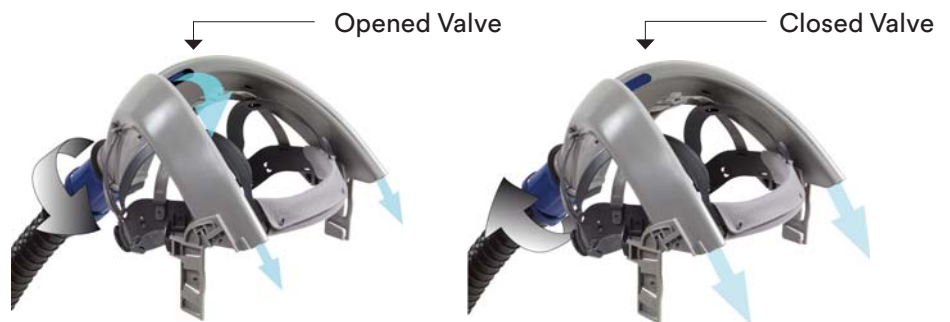
Fabric material: Polyurethane coated knitted polyamide.  
Visor material: Coated polycarbonate for increased chemical and scratch resistance.

# Innovative suspension with adjustable airflow.



reddot design award  
winner 2010

The external cover lets wearers control the location of the airflow. Reusable suspension hoods only.



3M™ Air Delivery Unit	S-Series Headcovers and Hoods	
	Classification	NPF <sup>1</sup>
3M™ Versaflo™ TR-300+	EN12941 TH3	500
3M™ Versaflo™ TR-600	EN12941 TH3	500
3M™ Jupiter™	EN12941 TH3	500
3M™ Versaflo™ V-100E / V-200E/V-500E	EN14594 3A <sup>2</sup>	200

Additional Protection	S-Series Headcovers and Hoods
Eye Protection	EN166 2:F:3

<sup>1</sup> Nominal Protection Factor (NPF) — a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protective devices.

<sup>2</sup> 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.

## Premium hoods with reusable suspensions

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. User control of airflow location and suspension adjustments for best comfort and custom fit.



**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.  
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.  
Fabric material: 3-layer polypropylene spunbond/laminated film/spunbond.  
Visor material: Coated polycarbonate for increased chemical and scratch resistance.



**3M™ Versaflo™ S-855E Hood**  
Sealed seam hood for liquid chemical splash environments.  
Fabric material: Spunbond polypropylene with multilayer barrier film.  
Visor material: Coated polycarbonate for increased chemical and scratch resistance.



# 3M™ Versaflo™ M-Series Faceshields and Helmets

**Highly versatile rigid headtops.** 3M™ Versaflo™ M-Series Headtops feature lightweight, compact and well-balanced face shields and helmets that can offer integrated protection from a range of respiratory, head, eye and hearing hazards, with offerings for neck and shoulder coverage. M-300 and M-400 Helmets meet the highest respirator performance requirements (TH3) for this type of product when used with specific 3M Air Delivery Units.

## Modern, well-balanced, comfortable design

- Lightweight, with excellent balance.
- Fully adjustable suspension that includes textile straps for optimal fit and weight distribution. A deflector allows users to direct the airflow inside the headtop for increased control and comfort.

## Versatility

- To suit a wide range of needs, industries and applications, 3M Versaflo M-Series Headtops offer face seals and shrouds in various fabrics.
- Accessories include ear-muffs, peel-off's, headcovers and a chin strap.



## Visor

- Visor design combines excellent peripheral and downward vision with good optical clarity.
- Coated visors provide added chemical and scratch resistance.

## Easy to maintain

- Many parts are common to all 3M Versaflo M-Series Headtops, meaning reduced inventories and downtime.
- Spare parts and accessories are quick and easy to replace; for example, visors easily slide into place and are secured by quickly snapping two buttons.

## Faceshields, helmets and helmets with shroud



### 3M™ Versaflo™ M-100 Series Faceshields

For respiratory, eye and face protection:

**M-106** | Features a comfortable face seal for dusts, spraying and chemical processing. Fabric material: polyurethane coated polyamide.

**M-107** | Features a flame-resistant face seal for applications with hot particles. Fabric material: flame-resistant polyester.



### 3M™ Versaflo™ M-300 Series Helmets

For respiratory eye, face and head protection:

**M-306** | Features a comfortable face seal for construction, chemical applications and heavy industry. Fabric material: polyurethane coated polyamide.

**M-307** | Features a flame-resistant face seal for applications with hot particles. Fabric material: flame-resistant polyester.




### 3M™ Versaflo™ M-400 Series Helmets with shrouds.

For respiratory, eye, face and head protection with additional neck and shoulder coverage:

**M-406** | Features a highly durable shroud for construction applications and heavy industry. Fabric material: Nylon.

**M-407** | Features a flame-resistant shroud for applications with hot particles. Fabric material: Polyaramid.

# Featured accessories

Accessories	Ordering No.	Description	Accessories	Ordering No.	Description
	M-928	Peel-off visor covers		M-447 M-448	Flame-resistant shroud High-durability shroud
	M-925 M-927	Uncoated polycarbonate visor Coated polycarbonate visor		M-958	Chin strap
	M-935 M-936 M-937	Standard face seal (white) Comfort face seal Flame-resistant face seal		M-972	Flame-resistant headtop cover
	M-976	Head, neck and shoulder cover, for M-100 and M-300 headtops		H31 P3AF 300 H510P3AF-405-GU (Optime I) H520P3AF-410-GQ (Optime II) H540P3AF-413-SV (Optime III)	3M™ Peltor™ Hearing Protection for M-100 and M-300

3M™ Air Delivery Unit	3M™ Versaflo™ M-100		3M™ Versaflo™ M-300		3M™ Versaflo™ M-400	
	Classification	NPF <sup>1</sup>	Classification	NPF <sup>1</sup>	Classification	NPF <sup>1</sup>
3M™ Versaflo™ TR-300+	EN12941 TH2	50	EN12941 TH3	500	EN12941 TH3	500
3M™ Versaflo™ TR-600	EN12941 TH2	50	EN12941 TH3	500	EN12941 TH3	500
3M™ Jupiter™	EN12941 TH2	50	EN12941 TH2	50	EN12941 TH3	500
3M™ Versaflo™ V-100E/ V-200E/ V-500E	EN14594 2B <sup>2</sup>	50	EN14594 3B <sup>2</sup>	200	EN14594 3B <sup>2</sup>	200

<sup>1</sup> 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.

<sup>2</sup> 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.

Additional Protection	3M™ Versaflo™ M-100	3M™ Versaflo™ M-300	3M™ Versaflo™ M-400
Eye Protection	EN166 1:BT:3 <sup>*</sup> ; EN166 1:BT:3:9 <sup>**</sup>	EN166 1:BT:3 <sup>*</sup> ; EN166 1:BT:3:9 <sup>**</sup>	EN166 1:BT:3 <sup>*</sup> ; EN166 1:BT:3:9 <sup>**</sup>
Hearing Protection	EN352-3 <sup>***</sup>	EN352-3 <sup>***</sup>	N/A
Head Protection	N/A	EN 397 LD 440 V a.c.	EN 397 LD 440 V a.c.

<sup>\*</sup> With M-927 Coated Visor

<sup>\*\*</sup> With M-925 Uncoated Visor

<sup>\*\*\*</sup> With 3M™ Peltor™ H31 P3AF 300 (SNR = 28; Size designation M/L) or Optime I (SNR = 26; Size designation M/L), Optime II (SNR = 30; Size designation M/L) or Optime III (SNR = 34; Size designation M/L). Contact 3M for full attenuation data including octave band and H, M and L values.

# 3M™ Welding Shields and Safety Helmets



## 3M™ HT-622 | Welding Shield

A super-light shield for welders wanting to maximise the benefits of the Euromaski™ system. Wide range of welding filter shade combinations available.

Euromaski™ is a trademark of Euromaski Oy, Finland.



## 3M™ HT-629 | Welding Shield

Welding visor with great coverage. 90×110mm welding filter holder for fixed shade or auto-darkening welding filter.



## 3M™ HT-639 | Welding Shield

Welding visor with great coverage. 90×110mm welding filter holder for fixed shade or auto-darkening welding filter.

3M™ Air Delivery Unit	3M™ HT-600 Series Welding Shields	
	Classification	NPF <sup>1</sup>
3M™ Versaflo™ TR-300+	EN12941 TH2	50
3M™ Versaflo™ TR-600	EN12941 TH2	50
3M™ Jupiter™	EN12941 TH2	50
3M™ Versaflo™ V-100E / V-200E / V-500E	EN14594 2A <sup>2</sup>	50

<sup>1</sup> 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.

<sup>2</sup> The HT-600 Series Welding Shields / HT-707 Safety Helmet / HT-748 and HT-749 Welding Helmets 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.

Additional Protection	HT-600 Series
Welding Protection	EN175 B
Head Protection	N/A
Eye Protection	EN 166*

\*Range of visor and welding filters available — contact 3M for details

## 3M™ Versaflo™ BT-Series Breathing Tubes



### 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: 735mm (S), 965mm (L).



### 3M™ Versaflo™ BT-30 Breathing Tube\*

Self-adjusting length for improved fit for all wearers and reduced risk of catching and snagging.

Material: Polyurethane. Length: 525–850mm.

### 3M™ Versaflo™ BT-40 Breathing Tube

Heavy-duty breathing tube.

Material: Neoprene. Length: 840mm.



### Accessories

BT-922: Disposable breathing tube cover.

BT-926: Flame-resistant breathing tube cover.



\*BT-30 not approved for use with M-400 Headtop/TR-600 Powered Air Turbo combinations. BT-20S/L or BT-40 Breathing Tube should be used.



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To find out how you can expand your world of comfort, scan this QR code with your smartphone or visit [www.3M.eu/Versaflo](http://www.3M.eu/Versaflo).

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