



Take your safety personally

Breathing under toughest conditions

Powered & Supplied Air Respirators by 3M

Providing clean breathing air is essential when working in areas subjected to highest hazardous contaminants.

3M has developed a comprehensive and versatile range of industry-proven powered and supplied air respirators especially for these hazardous working environments. In addition to providing respiratory protection these systems offer high levels of comfort and ease of use which can enable improved productivity in the workplace. Ideal air supply and valuable combinations of different protective functions enable the wearer to have not only respiratory protection, but also eye, face, head and sometimes even shoulder protection.

3M has two ways you can buy P&SA respirators; one is the Modular Range or you can buy individual systems. The Modular Range option allows the user to tailor the system for particular requirements in their workplace. The criteria for choosing the optimal protection system include the level and type of hazard in the work area, duration of exposure and work conditions such as heat or strenuous work. Individual systems include everything you will need, apart from a headtop.

The Selection of Respiratory Protection Equipment follows a basic 3M four-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



3M™ Powered & Supplied Air Respirators



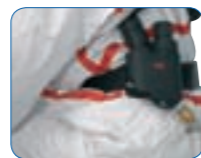
Powered & Supplied Air Respirators

Advantages of these Systems:

- + Combination of different protective functions, i.e. respiratory, head, face, eye and hearing protection
 - Comfortable respiratory protection
 - Integrated head protection
 - Reliable eye and face protection
 - Optional glare protection filters for welders
 - Optional hearing protection
- + No breathing resistance for easier working
- + Refreshing moving airflow
- + High wearer comfort can lead to:
 - higher wearer acceptance;
 - extended wearing period; and
 - higher productivity
- + Unlimited wearing time – for increased productivity

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

Air Delivery Units



Powered Air Delivery Units:

- + Purify the air coming in from the work environment
- + Consist of a headtop, breathing tube, battery-powered turbo unit and one or more filters to remove particulate and gaseous contaminants out of the incoming air
- + Offer high mobility

Supplied Air Respirator (SAR) Systems:

- + Utilise air from an external compressed air source that is independent of the hazardous environment
- + Consist of a headtop, breathing tube, belt-mounted regulator and compressed air supply tube
- + Offer adjustable airflow to the headtop to suit personal preference
- + Can be used against contaminants with low warning properties

In both these systems, a slight positive pressure in the headtop makes breathing more comfortable and prevents contaminated air from entering the headtop.

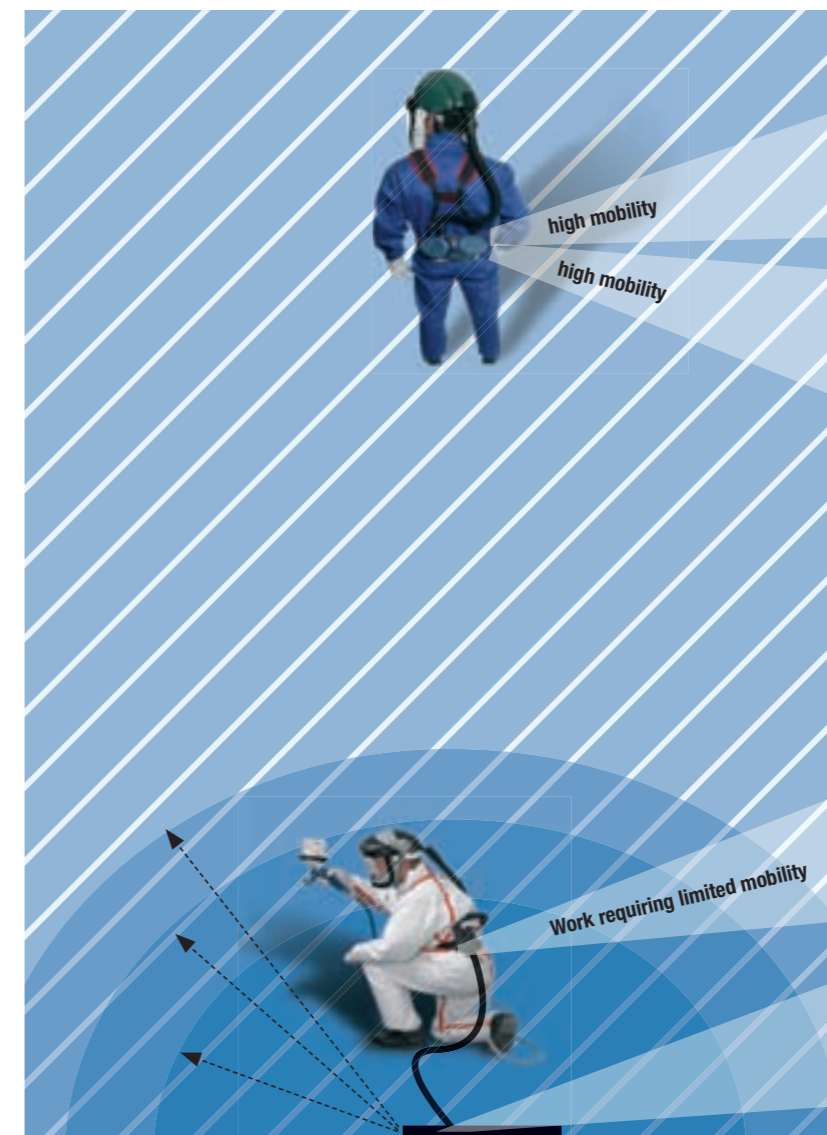
Mobility Around the Workplace

Regardless of whether you choose a powered air delivery unit system or supplied air system – both are safe, comfortable and industry proven.

Powered air delivery units are a good choice where high mobility is required; your workers can move around freely and be assigned to any particular area wherever they happen to be needed.

Supplied air regulators are a good choice where limited mobility is required and there is a source of compressed air available.

No matter which system you choose, you will always be getting a safe, comfortable and industry proven 3M™ Powered Air or Supplied Air Respiratory solution.



Powered Air



3M™ Jupiter™ Powered Air Turbo



3M™ Dustmaster™ Powered Air Turbo



3M™ Airstream™ PAPR Helmet AH4



3M™ Powerflow™ Turbo Unit with Full

Supplied Air



3M™ Flowstream™ Air Regulator



3M™ AirCare™ Filtration Unit



3M™ S-200™ Supplied Air System



3M™ Visionair™ Supplied Air Visor

3M™ Jupiter™ and 3M™ Dustmaster™ Powered Air Turbo
Work requiring high mobility

3M™ Flowstream™ and Vortex/Vortemp and S-200 Supplied Air Systems
Work requiring limited mobility

3M™ Powered & Supplied Air Respirators



3M™ Modular Range



Four Steps to the Right Respirator

Modular 3M™ Powered and Supplied Air Respirators

- 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 and eye
- 3** Select the right Respirator – Powered, Supplied-Air

3.1

Choose your headtop



Choose among a wide selection of headtops to meet the requirements of your workplace, from lightweight hoods to industrial helmets, that provide not only respiratory protection, but also eye and face protection, head protection, and optionally, hearing protection.

3.2

Choose your powered air turbo



To handle the contaminant situation at your particular workplace, you have the choice between two filtering powered air turbo systems and three supplied air regulators.

3.3

Choose your breathing tube



You need a breathing tube connecting the air source with the headtop to ensure that clean air reaches the headtop reliably and with unrestricted airflow. The breathing tubes offered are compatible with all headtops and air sources.

3.4

Choose accessories



3M offers a comprehensive range of accessories to make it easy to install your individual supplied air system.

Ready-to-Use Packs

3M's Ready-to-Use Packs are intended to provide a quick and easy application specific modular kit to get you going quickly.

- 1** What is your application?
- 2** Select your headtop
- 3** Select your ready to use 3M™ Jupiter™/Dustmaster™ Pack



Individual Systems

The respirator systems featured below can be used in a variety of workplace applications. They include the 3M™ Airstream™ Powered Air Respirators with integrated head, eye, face and respiratory protection and the 3M™ S-200 Regulator, compatible with 3M™ Half and Full Face Masks.

3M™ Airstream™ Powered Air Respirators



3M™ S-200 Supplied Air Respirator



3M™ Powerflow Plus™ Powered Air Respirators



3M™ Visionair™ Supplied Air Visor



- 4** Train in fitting and use – to optimise respiratory protection

The new 3M™ S-Series Headcovers and Hoods

Introducing the lightweight, loose-fitting 3M S-Series Headcovers and Hoods for 3M™ Powered and Supplied Air Respirators. Developed from a computer model of worldwide head sizes – and combined with new sizing and adjustment options – the 3M S-Series Headcovers and Hoods can be comfortably worn by many more wearers. Wearers enter a world of excellent airflow distribution and lower noise, excellent vision with soft face, neck or shroud respiratory seals and minimised visor distortion. Choose from four ready-to-use integrated suspension Headcovers and Hoods or three premium reusable suspension Hoods for highly-cost effective replacement of outer fabrics.

All 3M S-Series headtops:

- + Meet the highest respiratory performance requirements when used with specific 3M air delivery units.
- + Have reduced curvature visors for reduced reflections and glare and excellent field of view. Visors also provide eye and face protection to EN166 – liquid splash and low energy impact.
- + Offer improved comfort, low air flow noise and reduced fogging.
- + Connect via the new, strengthened BT-Series breathing tubes.

All new benefits

Improved shape

- + The new design of the headcovers and hoods more closely profiles the wearer's head for improved appearance compared to other designs that tend to "peak".

Improved Visibility

- + S-Series visors have excellent field of view with reduced curvature for decreased reflections and glare.

Comfortably worn by more users

- + Based on a computer modeling of a worldwide sampling of head sizes, the new S-Series suspensions, through their sizing and adjustment options, will comfortably fit more wearers than previous models.

Excellent Air Flow

- + All S-Series wearers benefit from excellent airflow distribution for improved comfort and lower noise.





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

Integrated suspension models offer the advantages of being fully assembled and ready to use straight out of the box. They 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. The integrated suspension models also feature a wide faceseal with soft elastic for improved comfort and reduced noise. The new airflow distribution minimises the potential

for air whistling past the wearer's ears, allowing for better worker communication and improved comfort. A new exhalation panel vents the headtop without the traditional vent hole pattern or exhalation valve. The integrated suspension headtops are available in two adjustable sizes to comfortably fit more wearers: S/M and M/L. For disposal, the suspension assembly and air inlet components can be quickly removed and separated for segregated waste streams, where facilities are available.

Features and Benefits:

- + Ready to use out of the box
- + Available in two adjustable sizes S/M and M/L to comfortably fit more users than previous models
- + Exhalation panel vents the headtop
- + Eye and face protection to EN166:2:F:3 (Optical class 2, low energy impact F and liquid splash 3)



All S-Series headtops meet the highest respiratory performance (when used with specific 3M air delivery units)

3M™ S-433 Hood

Head, face, neck and shoulder coverage, as well as providing eye and face protection to EN166 – liquid splash and low energy impact. General purpose, cost-effective fabric.

NEW

Other 3M™ S-Series Headcovers and Hoods



3M™ S-133 Headcover
Head and face coverage, as well as providing eye and face protection to EN166 – liquid splash and low energy impact. General purpose, cost-effective fabric.



3M™ S-333G Headcover
Similar to 3M S-133 headcover but with a more durable, soft, quiet, low-linting fabric.



3M™ S-533 Hood
Similar to 3M S-433 hood but with a more durable, soft, quiet, low-linting fabric that more readily drapes comfortably over the wearer.



3M™ S-Series – Premium Reusable Suspension Hoods

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. The new designs permit significantly faster user assembly of the entire headtop. The suspension's new rigid ducting provides a consistent air path. 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. The suspension has independent adjustments for the crown size and head circumference, allowing a comfortable, custom fit for a wide range of head sizes. An optional size-reducing comfort pad is provided to even further extend the range of compatible head sizes.

Features and Benefits:

- + Adjustable head circumference and crown size straps to comfortably fit more users than previous models.
- + Optional size reducing comfort pad for improved fit.
- + External airflow adjustment control



All S-Series headtops meet the highest respiratory performance (when used with specific 3M air delivery units)

3M™ S-Series Headcovers and Hoods Replacement Parts

3M S-605

Replacement fabric for S-655



3M S-607

Replacement fabric for S-657



3M S-707

Replacement fabric for S-757



3M S-805

Replacement fabric for S-855



All replacement hoods are available in packs of 5.

Other Hoods: HT-152



3M™ HT-152 Hood
TH3 hood, clear transparent polyurethane Protection class: EN12941 TH3 (with 3M™ Jupiter™ Powered Air Turbo) EN12941 TH1 (with 3M™ Dustmaster™ Powered Air Turbo) EN1835 LDH3 (with 3M™ Flowstream™, Vortemp and Vortex Regulators) NPF: 500 x TLV

3M™ S-655 Hood

Head, face, neck and shoulder coverage, as well as providing eye and face protection to EN166 – liquid splash and low energy impact. Its respiratory seal is a comfortable, knitted inner collar that is shorter and thinner than previous models. General purpose, cost-effective fabric.

NEW

Other 3M™ S-Series Reusable Hoods



3M™ S-657 Hood

Similar to 3M S-655 hood. The 3M S-657 hood uses a double shroud design for its respiratory seal; wearers can select between seal designs based on their personal preference. The users wear the S-657 by tucking its inner shroud into a shirt or protective coverall, which allows excess air to be channeled over the body, providing additional comfort.



3M™ S-757 Hood

Similar to 3M S-657 hood but with a fabric specifically intended to help capture paint overspray, minimizing the potential for paint to flake off the wearer and onto the work piece. The fabric also has an internal film barrier to help prevent paint contact with skin or clothes.



3M™ S-855 Hood

The S-855 hood is specifically developed for liquid chemical splash environments. The hood has a long outer shroud for increased coverage and splash protection.



3M™ S-Series Reusable Harnesses Air-Flow Management System

During development of the premium reusable suspension hoods, the focus was on comfort. At the heart of this innovative hood is a special head harness that allows airflow adjustment to suit individual needs.

Air flow — under total control

Features and Benefits:

- + Innovative, light head harness adjusts to all head sizes
- + Hood is simple to fix
- + Adjustable control for individual air flow distribution



Opened Valve



Closed Valve



Product Overview – 3M™ S-Series Headcovers and Hoods

The products can all be used in various areas. You can find the hood for your own particular needs in the table below.

For more information visit <http://www.3m.eu/worldofcomfort>

Application	Integrated Suspension Headcovers and Hoods				Premium reusable suspension hoods				
	S-133*	S-333 G*	S-433*	S-533*	S-655*	S-657	S-757*	S-855	HT-152**
Healthcare, laboratories	●			●		●			●
Pharmaceuticals industry	●		●	●	●	●		●	●
Agriculture		●						●	
Food industry	●		●	●					
Cellulose and paper industry		●			●				
Painting, wallpapering Renovation work – CFM				●		●	●		
Chemical industry			●	●	●			●	
Transportation	●								
General use			●						
Wood processing		●							

* All 3M S-Series hoods can be combined with all 3M™ Powered Air and Supplied Air Delivery Units. When combined with the 3M™ Jupiter™ Powered Air Turbo, 3M S-Series hoods achieve protection class TH3 and can be used to provide protection up to 500 times the relevant TLV (Threshold Limit Value). When combined with the 3M™ Dustmaster™ Powered Air Turbo, the S-Series hoods achieve protection class TH1 and can be used to provide up to 10 times the relevant TLV. When combined with the 3M™ Flowstream™, Vortemp™ and Vortex Regulators, they achieve protection class 3A and can be used to provide protection up to 200 times the relevant TLV.

Note: The 3M 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 lower and higher strength (A and B) requirements.

** The 3M™ HT-152 can be combined the 3M™ Jupiter™ Powered Air Turbo to achieve protection class TH3 and can be used to provide protection up to 500 times the relevant TLV. When combined with the 3M™ Dustmaster™ Powered Air Turbo, the system achieves protection class TH1 and can be used to provide up to 10 times the relevant TLV. When combined with the 3M™ Flowstream™, Vortemp™ and Vortex Regulators, they achieve protection class LDH3 and can be used to provide protection up to 200 times the relevant TLV.



3M™ 400 Series Visors

3M 400 series visors offer the user respiratory protection, but also EN166 approved eye and face protection, while weighing only 500g. The 3M™ HT-401 Acetate Visor is an effective solution for painting applications or working with chemicals. The 3M™ HT-402 scratch resistant Polycarbonate Visor is ideal for all applications requiring physical face protection during machining and finishing work, such as grinding, drilling and milling.

Applications

- + Mixing Processes
- + Paintspraying
- + Chemical Industry
- + Food and Beverage Industry

Features and Benefits:

- + The acetate visor provides eye and face protection to EN166, liquid splash and low energy impact
- + The innovative Quick Release Swivel (QRS) coupling on the headtop makes it easy to connect and disconnect the breathing tube, and it swivels to avoid loops and kinks in the tube
- + Face seal



3M™ HT-401

Acetate Visor
Weight: 500 g
Protection class:
EN12941 TH2
(with 3M™ Jupiter™ Air Delivery Unit)
prEN146 TH2
(with 3M™ Dustmaster™ Air Delivery Unit)
EN1835 LDH2
(with 3M™ Flowstream™, Vortemp and Vortex Regulators)*

3M™ HT-402 Visor Headtop



Scratch resistant polycarbonate visor providing face protection approved to EN166, medium energy impact resistance and molten metal protection
Weight: 500 g
Protection class:
EN12941 TH2
(with 3M™ Jupiter™ Powered Air Turbo)
prEN146 TH2
(with 3M™ Dustmaster™ Powered Air Turbo)
EN1835 LDH2
(with 3M™ Flowstream™, Vortemp and Vortex Regulators)*

* All 3M 400 Series Headtops shown can be combined with all 3M™ Powered Air and Supplied Air systems. When combined with the 3M™ Dustmaster™ and 3M™ Jupiter™ Air Delivery Units, they achieve protection class TH2 and can be used to provide protection up to 50 times the relevant TLV (Threshold Limit Value). When combined with the 3M™ Flowstream™, Vortemp and Vortex Regulators, they achieve protection class LDH2 and can be used to provide protection up to 50 times the relevant TLV.

For a more comprehensive guide to 3M welding please refer to the welding section



3M™ 600 Series Welding Visors

The 3M 600 series welding visors not only offer respiratory protection but also face, eye and impact protection in metal working and fabrication environments. The various flip-up visor & 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 lens shades including auto darkening and fixed shade.

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

Features and Benefits:

- #### 3M™ HT-639 Welding Visor*
- + A well-balanced shield
 - + Superb coverage
 - + Respiratory, eye, face and impact protection
 - + Conventional or auto-darkening filters can be fitted
 - + Supplied with a 90 x110mm filter holder able to hold fixed shade or auto-darkening filters
 - + Approvals:
EN12941 TH2
(with 3M™ Jupiter™ Air Delivery Unit)
EN12941 TH1
(with 3M™ Dustmaster™ Air Delivery Unit)
EN1835 LDH2 (with 3M™ Flowstream™ Vortex and Vortemp Regulators)
 - + Weight: 696g



* All 3M 600 series Headtops shown can be combined with all 3M™ Powered Air and Supplied Air systems. When combined with the 3M™ Jupiter™ Air Delivery Units, they achieve protection class TH2 and can be used to provide protection up to 50 times the relevant TLV. When combined with the 3M™ Dustmaster™ Powered Air Turbo they achieve protection class TH1 and can be used to provide protection up to 10 times the relevant TLV. When combined with the 3M™ Flowstream™, Vortemp and Vortex Regulators, they achieve protection class LDH2 and can be used to provide protection up to 20 times the relevant TLV.

3M™ HT-622 Welding Visor*



A super-light shield for welders wanting to maximise the benefits of the Euromaski™ system. 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

Euromaski™ is used with permission of Euromaski Oy, Finland.

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™ Modular Range



3M™ 700 Series Helmets

3M 700 series helmets offer the user not only respiratory protection, but also EN166 approved eye and face protection as well as EN397 head protection. The helmet shells are optionally available in different colours. 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. The 3M™ HT-748 and HT-749 Systems offer an additional glare protection filter is thus especially suitable as a welding protection solution.

The 3M™ HT-748 and 3M™ HT-749 Systems can be equipped with either a fixed shade filter or an Auto Darkening Filter in the standard format 90 x 110 mm / 3 1/4" x 4 1/4".

Applications

- All industrial areas that require eye, face, head and hearing protection e.g.
- + Smelting
 - + Construction
 - + Foundries (grinding, polishing)
 - + Welding

Features and Benefits:

- + The polycarbonate visor (optionally available in other materials) offers eye and face protection to EN166
- + Helmet shells provide head protection to EN397
- + Quick Release Swivel (QRS) Coupling or ease of use
- + Head and face seals
- + Positive pressure helps prevent ingress of contaminant into the headtop
- + Light, well balanced



3M™ HT-701*
Safety helmet, white
Weight: 715 g
EN12941 TH2
(with 3M™ Jupiter™ Air Delivery Unit)
prEN146 TH2
(with 3M™ Dustmaster™ Air Delivery Unit)
EN1835 LDH2
(with 3M™ Flowstream™, Vortemp and Vortex Regulators)

Other 3M™ Series 700 Helmets

3M™ HT-702*
Safety helmet, blue
Weight: 715 g

3M™ HT-705*
Safety helmet, green
Weight: 715 g

3M™ HT-707*
Safety helmet, white, heat resistant shell
Weight: 715 g

3M™ HT-748 / HT-749*
Welding helmet, black, eye protection filter for welding work
Weight: 900 g

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

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

* EN12941 TH2 (with 3M™ Jupiter™ Powered Air Turbo)
prEN146 TH2 (with 3M™ Dustmaster™ Powered Air Turbo)
EN1835 LDH2 (with 3M™ Flowstream™, Vortemp and Vortex Regulators)

All 3M 700 series Headtops shown can be combined with all 3M™ Powered Air and Supplied Air systems. When combined with the 3M™ Dustmaster™ and 3M™ Jupiter™ Powered Air Turbos, they achieve protection class TH2 and can be used to provide protection up to 50 times the relevant TLV (Threshold Limit Value). When combined with the 3M™ Flowstream™, Vortemp and Vortex Regulators, they achieve protection class LDH2 and can be used to provide protection up to 50 times the relevant TLV.

3M™ 800 Series Helmets

3M 800 series helmets offer the user not only respiratory protection, but also EN166 approved eye and face protection as well, EN812 bumpcap protection (3M™ HT-820 Helmet) and EN397 helmet protection (HT-840/HT-880). The 3M™ HT-880 Helmet additionally offers chin protection as well as neck and shoulder protection with a lightweight shroud or more durable Cordura™ option.

Applications

- All industrial areas that require eye, face, head and hearing protection e.g.
- + Smelting
 - + Construction
 - + Foundries (grinding, polishing)
 - + Welding

Features and Benefits:

- + The polycarbonate visor (optionally available as acetate visor) offers eye and face protection to EN166 and large viewing area
- + Helmet shells provide head protection to EN397
- + Quick Release Swivel (QRS) Coupling for ease of use
- + The shroud protects neck and shoulders
- + Flip-up visor
- + Chin protection
- + Ease of maintenance
- + Ratchet adjustment mechanism



3M™ HT-880
Integral Hard Hat, green, flip-up visor
Weight: 1075 g
EN12941 TH2
(with 3M™ Jupiter™ Air Delivery Unit)
prEN146 TH2
(with 3M™ Dustmaster™ Air Delivery Unit)
EN1835 LDH2
(with 3M™ Flowstream™, Vortemp and Vortex Regulators)*

Other 3M™ 800 Series Helmets

3M™ HT-820*
Bump cap, red
Weight: 845 g

3M™ HT-840*
Hard hat, green
Weight: 1000 g

* EN12941 TH2 (with 3M™ Jupiter™ Powered Air Turbo)
prEN146 TH2 (with 3M™ Dustmaster™ Powered Air Turbo)
EN1835 LDH2 (with 3M™ Flowstream™, Vortemp and Vortex Regulators)

All 3M 800 Series Headtops shown can be combined with all 3M™ Powered Air and Supplied Air systems. When combined with the 3M™ Dustmaster™ and 3M™ Jupiter™ Powered Air Turbos, they achieve protection class TH2 and can be used to provide protection up to 50 times the relevant TLV (Threshold Limit Value). When combined with the 3M™ Flowstream™, Vortemp and Vortex Regulators, they achieve protection class LDH2 and can be used to provide protection up to 50 times the relevant TLV.



3M™ Jupiter™ Powered Air Turbo

Once a suitable headtop has been selected, a suitable air source should be selected for your application. The Jupiter powered air turbo is a comfortable, easy-to-use powered air purifying turbo unit that provides protection against solid particulates, gases or vapors, or against a combination of these depending on the types of filter cartridges 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) cover.

Applications

- + Metalworking
- + Automotive Industry
- + Demolition and Stripping
- + Painting
- + Chemical and Pharmaceutical Industry
- + Agriculture
- + Woodworking

Features and Benefits:

- + ON/OFF switch with control module
- + Breathing tube connection
- + Decontamination comfort belt for a improved fit and easier cleaning
- + Filter connection
- + Five different filter types
- + Modern, ergonomic design
- + Minimal maintenance required
- + Can be worn during shower decontamination
- + Can be used in potentially explosive atmospheres
- + Optional braces available
- + Also available as a Ready-to-Use Pack including Jupiter™ turbo unit, A2P filters, pre-filters, breathing tube, 8 hour battery (NiMH) and battery charger
- + Intelligent battery charger to optimise battery life



3M™ Jupiter™ Powered Air Turbo Unit
EN12941
Protecting class*
Weight 815 g (with 4-hour battery, without filter and belt)



3M™ Jupiter™ Powered Air Turbo with IS Cover and battery
EN12941
Protection class*
II 2 GD
EEx ib IIB T3
(T_a = -20°C to +40°C)
T55°C.



* Please see the data of the headtop used with the unit for information on respiratory protection class ratings.

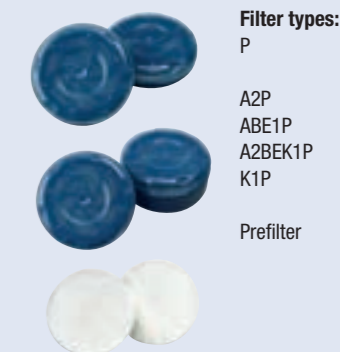
Accessories for 3M™ Jupiter™ Powered Air Turbo

A broad range of accessories is available to adapt the 3M™ Jupiter™ Powered Air Turbo to different work conditions – ranging from various filters to different battery packs to an Intrinsically Safe (IS) cover.



- | | | | | |
|----------------------------|--------------|----------------|-------------------|--------------------|
| 1. 3M™ Jupiter™ Turbo Unit | 3. Belt clip | 5. Pre-filters | 7. IS cover | 9. Battery charger |
| 2. Belt | 4. Filters | 6. Battery | 8. Breathing tube | 10. Airflow tubes |

Accessories



Filter types:
P

A2P
ABE1P
A2BEK1P
K1P

Prefilter



Batteries:
4 or 8-hour battery,
4-hour IS battery



Electronic battery charger



Airflow tubes:
Airflow indicator (white ball)
Calibration tube (black ball)



3M™ Dustmaster™ Powered Air Turbo

The Dustmaster powered air turbo is a robust industry-proven turbo unit. The Dustmaster Turbo system provides respiratory protection against airborne particulates, dust, nuisance odours and welding fumes.

Applications

- + Metalworking
- + Woodworking
- + Welding

Features and Benefits:

- + Breathing tube connection
- + Battery charger connection – No need to remove battery for charging
- + Belt
- + Durable housing
- + Minimal maintenance required
- + Dustproof ON/OFF switch
- + Easy to clean
- + Compact, lightweight construction
- + Robust, industry proven design
- + Integrated particulate filter
- + Replaceable filter cartridge (optional prefilter)
- + Excellent value product offering low cost protection & productivity benefits
- + Also available as 3M™ Dustmaster™ Ready To Use Kit which includes as above with 2 x pre-filters, breathing tube, battery charger



3M™ Dustmaster™ Powered Air Turbo Unit
 prEN146
 EN12941
 Protection class*
 Weight 1.130 g (with battery, filters and belt)

Accessories

- + 8-hour NiMH battery
- + Electronic battery charger
- + P filter
- + P filter with nuisance odour filter
- + High efficiency P filter
- + Breathing tubes

3M™ Dustmaster™ Ready-to-Use Pack



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

3M™ Flowstream™ Regulator

This regulator can be combined with all 3M modular Headtops and ensures an individually adjustable, constantly controlled airflow. The Flowstream regulator requires a working pressure of 3-8 bar and it is extremely quiet due to the integrated silencer (< 65 dBA). The integrated activated charcoal filter odour from supplied air. Five different compressed air supply tubes are available to connect the Flowstream regulator to the compressed air supply. 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 3M™ Supplied Air System are connected using plug and socket hose couplings (Rectus 25, CEJN '342' or Broomwade connectors available). An auxiliary port allows a spray gun or other air tool to be connected to the Flowstream without causing variations in headtop airflow. An integrated warning whistle warns the user of low airflow into the headtop.

Applications

- + Chemical and pharmaceutical industry
- + Paintspraying
- + Metal finishing

Features and Benefits:

- + Integrated low airflow warning whistle
- + QRS Breathing tube
- + Integrated silencer
- + Lockable Airflow adjustment knob
- + Removable, Integrated activated charcoal filter
- + Belt swivel mechanism
- + Auxiliary connection for air tools (e.g. spray gun)
- + Compressed air connection
- + Easy to clean
- + Air flow 150-305 l/min



3M™ Flowstream™ Air Regulator System

Approval EN 1835
 Protection class*
 Weight 550 g



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



3M™ Vortex/Vortemp Air Cooling/Heating Regulator

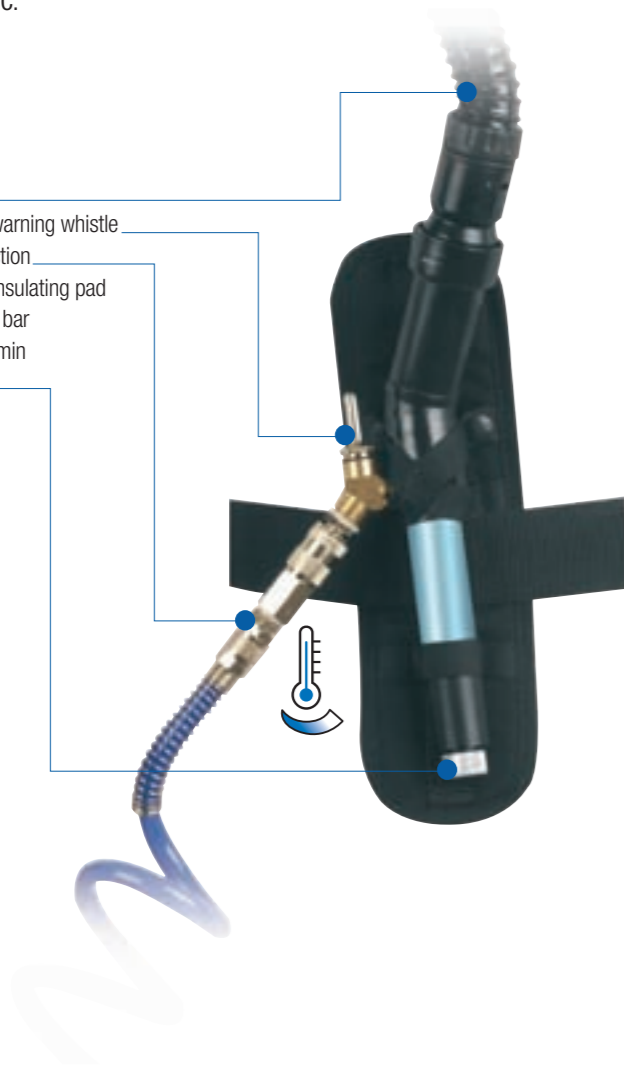
3M Vortex and Vortemp – your personal air conditioning unit on your belt. In many areas of industry, workers are sometimes exposed to uncomfortably high or low temperatures in addition to high concentrations of hazardous contaminants. These are the situations where the Vortex or Vortemp systems are ideal for use in the supplied air respirator system to individually cool or heat the user's incoming supplied air by up to 25 °C.

Applications

- + Heavy Industry
- + Foundries (high radiant heat)
- + Construction Industry (cold outdoor temperatures)
- + Manufacturing

Features and Benefits:

- + Heating/cooling effect
- + Breathing tube
- + Integrated low-airflow warning whistle
- + Compressed air connection
- + Belt mounting with an insulating pad
- + Working pressure 6-10 bar
- + Air volume 150-600 L/min
- + Adjustable temperature controller



3M™ Vortex Air Cooling Regulator
 EN 1835
 Protection class*
 Weight 585 g
 incl. belt and pad

Vortemp Air Heating Regulator

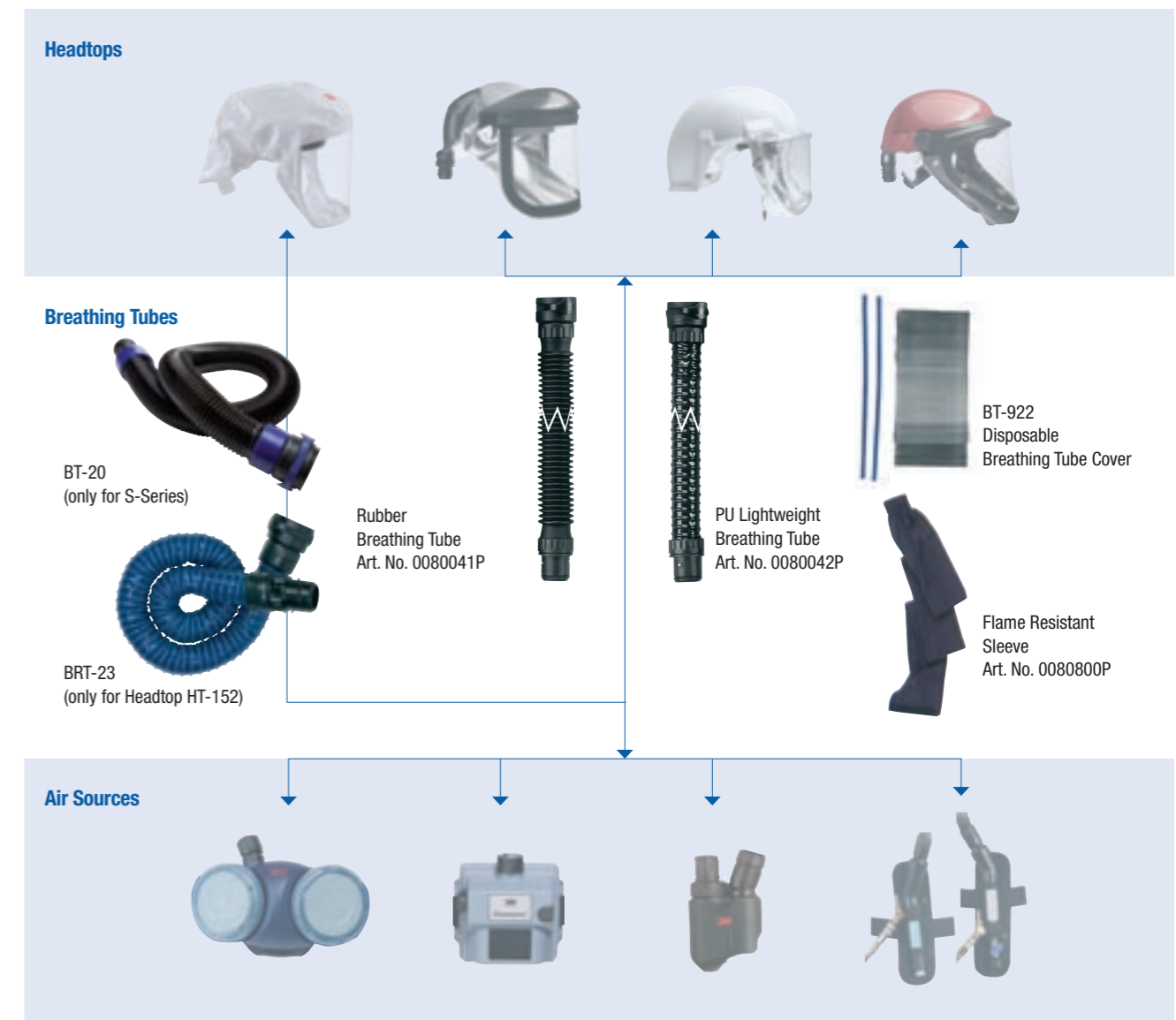
Approval: EN 1835
 Protection class*
 Weight: 655 g
 incl. belt and pad



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

3M™ 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 modular headtops and air sources. You can choose either a lightweight polyurethane breathing tube or a robust rubber breathing tube. A special flame-resistant sleeve lengthens the life of the breathing tube and protects it from flying sparks.



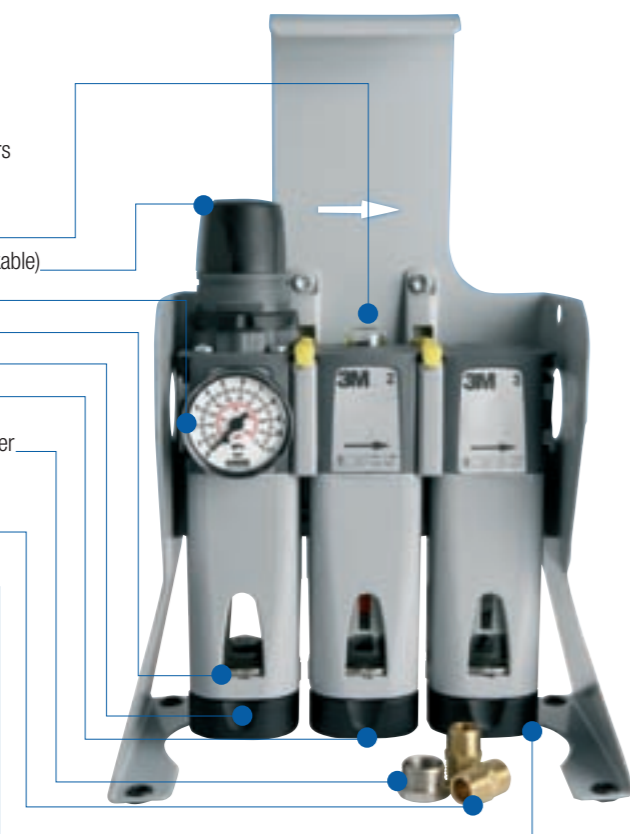


3M™ AirCare™ Filtration Unit

The AirCare™ ACU01 / ACU02 filtration unit can be combined with all 3M™ Supplied Air Respirator Systems.

Features and Benefits:

- + 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
- + Includes 3/8" to 1/2" BSP adapter
- + Includes 2 adapters, 3/8" BSP to 3/8" male pipe thread BSP
- + Adsorber filter with activated charcoal



- + 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 odors from the facility-supplied compressed air.
- + The Filtration Unit is available as either a portable freestanding unit or wall-mounting unit.
- + Output pressure can be adjusted with the integrated pressure regulator. The 3M™ AirCare™ Filtration Unit can be used with input pressures up to 10 bar.

3M™ AirCare™ Filtration Unit ACU02, Freestanding (Art. No. 3000622P)
Input: 1/2" or 3/8" female pipe thread BSP
Output: 3/8" BSP

3M™ AirCare™ Filtration Unit ACU01



Wall mounted

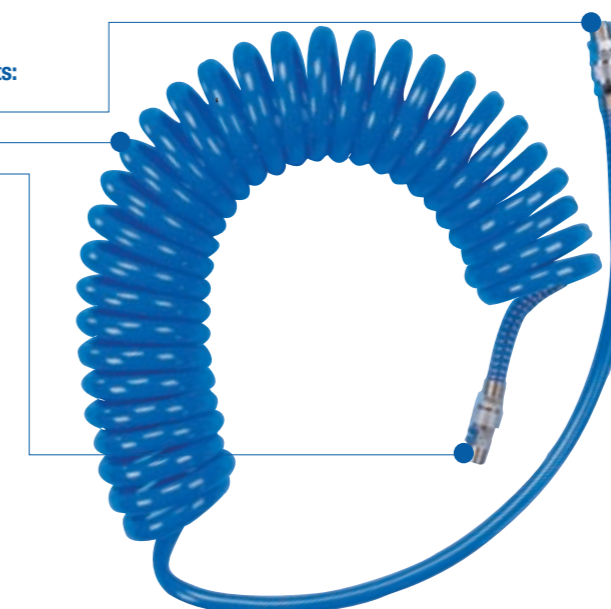
3M™ Compressed Air Supply Tubes and Couplings

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.

Features and Benefits:

- + 3/8" BSP
- + Flexibility
- + 3/8" BSP



7.5 m Coiled tube
Art. No. 3080040P

Compressed Air Supply Tube and Couplings



5 m Light duty tube
Art. No. 3080035P



10 m Standard duty tube
Art. No. 3080030P



10 m Standard tube antistatic, high temperature hose
Art. No. 3080072P



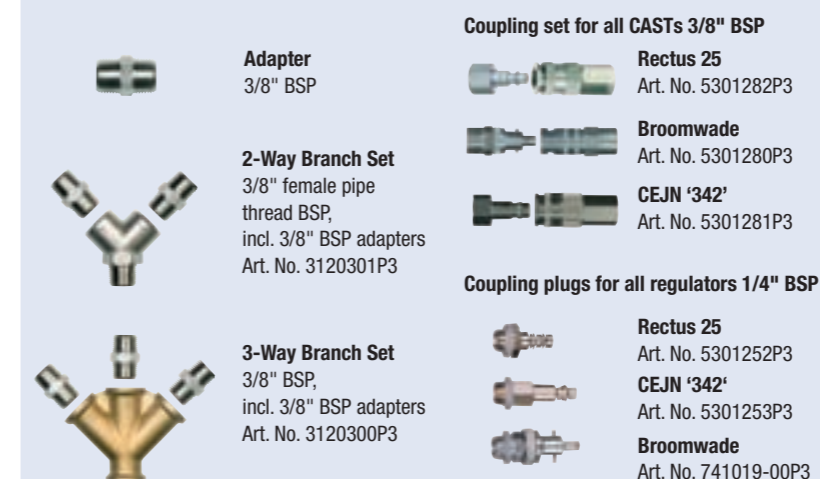
30 m Standard duty tube
Art. No. 3080031P



Connector
for compressed air supply tube 3/8" BSP
Art. No. 5301285P



Connection Set
for spray gun
Art. No. 0230545P3



Adapter
3/8" BSP

2-Way Branch Set
3/8" female pipe thread BSP, incl. 3/8" BSP adapters
Art. No. 3120301P3

3-Way Branch Set
3/8" BSP, incl. 3/8" BSP adapters
Art. No. 3120300P3

Coupling set for all CASTs 3/8" BSP

Rectus 25
Art. No. 5301282P3

Broomwade
Art. No. 5301280P3

CEJN '342'
Art. No. 5301281P3

Coupling plugs for all regulators 1/4" BSP

Rectus 25
Art. No. 5301252P3

CEJN '342'
Art. No. 5301253P3

Broomwade
Art. No. 741019-00P3



3M™ Airstream™ Powered Air Helmet

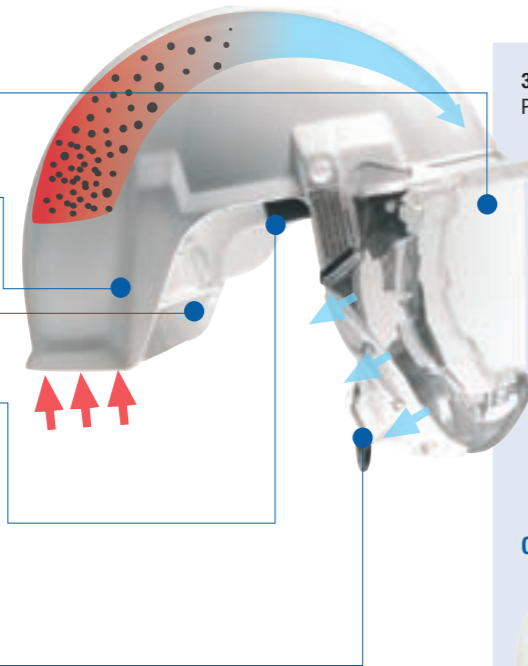
The Airstream™ Helmet is a Powered Air system headtop where the turbo and filter components are integrated into the helmet. The helmet is powered by a lightweight belt-mount battery. Airstream™ Helmets have been very popular in industry for many years. They offer protection upto class THP2 and an NPF of 50 x TLV against particulate aerosols.

Applications

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

Features and Benefits:

- + Polycarbonate visor options offer eye and face protection to EN166
- + Lightweight, exceptionally robust helmet shell
- + Integrated turbo motor including filter 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 battery
- + Electronic battery charger
- + Combines respiratory, head, eye and face protection; glare and hearing protection optional



3M™ Airstream™ Helmet AH4
Protection against solid and liquid particles

Other 3M™ Airstream™ Helmets



3M™ AH1 Helmet
THP1
NPF 10 x TLV



3M™ AH7 Helmet
Protection against solid particles plus heat resistant shell.

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.

3M™ Powerflow™ Plus Powered Air Facepiece

The Powerflow Plus powered air facepiece 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 TM 3 PSL (as per prEN 147) and can be used to provide protection up to 2000 times the relevant TLV.

Applications

- + Asbestos Stripping

Features and Benefits:

- + Lightweight full facepiece with wide viewing area (panoramic vision)
- + Facepiece made of silicone 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™ Plus Powered Air Facepiece

Approval	prEN 147 (rev.)
Protection class	TM3
APF	2000 x TLV (Turbo unit ON), 1000 x TLV (Turbo unit OFF)

Accessories

- P3 Filter
- 8-hour battery
- Electronic battery charger



3M™ S-200™ Supplied Air System

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

Applications
+ Painting

Features and Benefits:

- + Breathing tube to air regulator
- + Half Facepiece 7500 Series
- + Bayonet connector for breathing tube
- + S-200 Air Regulator
- + Pressure relief valve
- + Safety: High respiratory protection
- + Comfort: Swirling air flows in from the sides
- + Lightweight: Perfectly balanced system
- + Low maintenance



3M™ S-200™ Supplied Air System
Approval: EN139
NPF: Half facepiece: 50 x TLV
Full facepiece: 200 x TLV
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.



3M™ 2000 Series Particulate Filter



3M™ 5000 Particulate Filter Inserts



3M™ 6000 Series Gas/Vapor and Combination

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.



3M™ S-200™ Supplied Air System without additional filters

3M™ Visionair™ Supplied Air Visor System

The Visionair supplied air visor 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 (optional extra)
- + Choice of left- or right- handed mounting capabilities
- + Nuisance odour filter
- + Adjustable air flow
- + High respiratory protection class



3M™ Visionair™ System
Weight: 460g
Approval: EN270, EN1835 LDH3
NPF: 200 x TLV



3M™ Visionair™ Supplied Air Visor System