

3M Occupational Health and Environmental Safety Group
3M™ S-Series Headcovers and Hoods for
Powered and Supplied Air Respirators



Work
in a world of
Comfort





All New Benefits

Comfortably worn by more users

Based on computer modeling of a worldwide sampling of head sizes, the new 3M™ S-Series Head harnesses, through their sizing and adjustment options, will comfortably fit a broad range of head sizes.

Convenience of a hanging loop

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

Visors have an excellent field of vision particularly downwards, with reduced curvature for decreased reflections and glare.

Range of 4 fabrics

To suit more applications and needs.

Excellent airflow

All wearers benefit from excellent airflow distribution for improved comfort and lower noise.



ALL-DAY COMFORT

Lightweight and loose-fitting, the NEW 3M™ S-Series Headcovers and Hoods can be comfortably worn with prescription eyewear, safety glasses, and limited facial hair. The pressure on the face, breathing resistance, and heat build-up are greatly reduced when compared to tight-fitting facepieces, increasing all-day comfort.

EASIER TO BREATHE

With powered and supplied air respirators, breathable air is provided to the wearer; reducing the additional breathing effort required. This increases wearer comfort at all times, but is especially important during periods of strenuous labour.

EXCELLENT AIRFLOW

The headcovers and hoods direct a comfortable stream of breathable air to where workers need it most: the head and face. The moving airflow may make hot environments more tolerable while greatly reducing visor fogging. And, when using the appropriate 3M™ Supplied Air Unit, the supplied air can also be made cooler or warmer when working in hot or cold environments.

HIGHER PERFORMANCE

The 3M™ S-Series Headcovers and Hoods meet the highest respiratory performance requirements for this type of product when used with specific 3M™ Air Delivery Units (see table on back page). This makes them suitable for a wider range of applications and working environments.

ADDED PROTECTION

In addition to respiratory protection, the headcovers and hoods also provide coverage of the head or head, neck and shoulders, as well as providing eye and face protection to EN166 – protection against liquid droplets (grade 3) and low energy impact (grade F) the same classification for impact resistance as safety spectacles.

SIMPLE MAINTENANCE

Choose ready-to-use headcovers for applications where assembly would be too time-consuming or otherwise impractical. Or choose hoods for quick, highly cost-effective replacement of outer fabrics.

3M™ S-Series Headcovers



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.

For disposal, the suspension assembly and air inlet components can be quickly removed and separated for segregated waste streams, where facilities are available.

The integrated suspension headtops are available in two adjustable sizes to comfortably fit more wearers: S/M and M/L.



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



3M™ HEADCOVER S-433
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.



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

Why is care and maintenance of Powered and Supplied Air equipment so important?

To maintain protection levels, optimise the effective lifetime of the system and avoid the additional cost of replacement, it is extremely important to carry out regular checks and maintenance on Powered and Supplied Air Respirators.

Guidance on the appropriate checks is provided in the instruction booklets with each new turbo/system/headtop. 3M also publish Care and Maintenance packs for each system.

For more information contact the 3M Helpline on:

0870 60 800 (UK)
1 800 320 500 (IRELAND)



Premium Maintainable Hoods



Premium maintainable hoods can be a highly cost-effective choice for some high disposal rate environments: just the soiled hood fabric is replaced, while the head harness and air ducting can be reused.

The new designs permit significantly faster user assembly of the entire headtop.

The rigid ducting of the head harness 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.

The external cover lets wearers control the location of the airflow.



3M™ HOOD S-655

Provides head, face, neck and shoulder coverage, as well as 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.



3M™ HOOD S-657

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



3M™ HOOD S-757

Similar to the S-657 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-SERIES HEADCOVERS AND HOODS REPLACEMENT PARTS

PART NUMBER
S-605

DESCRIPTION
Replacement fabric for S-655

3M™ S-SERIES HEADCOVERS AND HOODS REPLACEMENT PARTS

PART NUMBER
S-607

DESCRIPTION
Replacement fabric for S-657

3M™ S-SERIES HEADCOVERS AND HOODS REPLACEMENT PARTS

PART NUMBER
S-707

DESCRIPTION
Replacement fabric for S-757

For a full range of accessories and spare parts please contact 3M

3M™ S-Series Modular Systems



Additional Wearer Benefits

TRULY MODULAR

All 3M™ S-Series Headtops connect to the current modular range of 3M™ Air Delivery Units via the new 3M™ BT-Series Breathing Tubes. This modular approach not only simplifies the equipment selection process, it also more readily manages changing end-user applications.

DURABLE NEW BREATHING TUBES

The new 3M™ BT-Series Breathing Tubes feature steel core coils for durability and are approved for use with the 3M™ S-Series to meet the highest respiratory performance requirements for this type of product. To improve their comfort and reduce the potential to catch on surrounding obstacles, the tubes are offered in two lengths: S/M and M/L.

PART NUMBERS

BT-20S Breathing Tube, small/medium

BT-20L Breathing Tube, medium/large



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 additional protection – eg. skin and eye.

3 SELECT THE RIGHT RESPIRATOR

Powered or Supplied Air.

3.1 CHOOSE YOUR HEADTOP

Choose between 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 AIR DELIVERY UNIT

To handle the contaminant situation in your particular workplace, you have the choice between two filtering powered air systems and three supplied air units. You also need to choose the right filters for the contaminant situation when using powered air systems.

3.3 CHOOSE YOUR BREATHING TUBE

The breathing tube reliably connects the headtop to the air delivery unit, ensuring an unrestricted flow of breathing air. To meet the high respiratory performance requirements, the 3M™ S-Series Headtops connect to all air delivery units via the new 3M™ BT-Series Breathing Tubes. Additional breathing tubes are available that are compatible with the 3M™ HT-100, HT-400, HT-600, HT-700 and HT-800 Series modular headtops.

3.4 CHOOSE ACCESSORIES (IF REQUIRED)

3M offers a comprehensive range of modular system accessories to make it easier to customise the system to suit individual needs.

4 TRAIN IN FITTING AND USE

To optimise respiratory protection

3M™ Modular Systems

3M™ Powered and Supplied Air Delivery Units

Once you have chosen a suitable headtop, your next step is to select an air delivery unit appropriate for your application. The following are brief descriptions of your air delivery unit options; for additional information, contact your 3M Sales Representative or visit www.3M.co.uk/ohes

* The 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.
 ** The protection factor assigned by the Health and Safety Executive in their publication HSG53.

AIR DELIVERY UNIT	STANDARDS S-SERIES HEADCOVERS AND HOODS	ASSIGNED PROTECTION FACTOR (APF)**
3M™ Jupiter™ Turbo Unit	EN12941 TH3	40
3M™ Dustmaster™ Turbo Unit	EN12941 TH1	10
3M™ Flowstream™ Regulator	EN14594 3A*	40
3M™ Vortex/Vortemp™ Air Cooling/Heating Units	EN14594 3A*	40



3M™ JUPITER™ TURBO UNIT
 The 3M™ Jupiter™ Turbo Unit is a comfortable, easy-to-use powered air turbo unit that provides protection against particulates, gases or vapours, or against a combination of these contaminants depending on the types of filter used.



3M™ DUSTMASTER™ TURBO UNIT
 The 3M™ Dustmaster™ Powered Air Turbo is a robust industry-proven turbo unit providing respiratory protection against airborne particulates and dust. An optional nuisance odour filter is available.



3M™ FLOWSTREAM™ REGULATOR
 The 3M™ Flowstream™ Regulator ensures an individually adjustable, constantly controlled airflow.



3M™ VORTEX/VORTEMP™ AIR COOLING/HEATING UNITS
 The 3M™ Vortex/Vortemp Units are a good choice for workers who are exposed to uncomfortably high or low temperatures in addition to high concentrations of hazardous contaminants.

Additional Modular Respiratory Headtops

In addition to the headcovers and hoods, 3M offers a wide selection of rigid headtops that readily connect to 3M™ Powered and Supplied Air Units, including the 3M™ HT-400 Series Visors, HT-600 Series Welding Visors and the HT-700 and HT-800 Series Helmets. Contact your 3M Sales Representative, visit www.3M.co.uk/ohes or call our Helpline for additional information.

AIR DELIVERY UNIT	HT-400 SERIES HT-700 SERIES, HT-800 SERIES	HT-600 SERIES
3M™ Jupiter™ Turbo Unit	EN12941 TH2 - APF 20	EN12941 TH2 - APF 20
3M™ Dustmaster™ Turbo Unit	prEN146 TH2 - APF 20	EN12941 TH1 - APF 10
3M™ Flowstream™ Regulator 3M™ Vortex/Vortemp™ Air Cooling/Heating Units	EN1835 LDH2 - APF 20	EN1835 LDH2 - APF 20



3M™ HT-400 SERIES VISORS
 The 3M™ HT-400 Series Visors offer the wearer respiratory protection, plus EN166 approved eye and face protection. The visor can either be in acetate (HT-401) or polycarbonate (HT-402).



3M™ HT-600 SERIES WELDING VISORS
 The 3M™ HT-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 and filter mechanisms allow you to inspect your work whilst the large coverage area provides protection from radiation and sparks.



3M™ HT-700 SERIES HELMETS
 The 3M™ HT-700 Series Helmets offer the wearer respiratory protection, plus EN166 approved eye and face protection as well as EN397 head protection.



3M™ HT-800 SERIES HELMETS
 The 3M™ HT-800 Series Helmets offer the wearer respiratory protection, plus EN166 approved eye and face protection as well as EN812 bumpcap protection (HT-820) and EN397 helmet protection (HT-840/HT-880). HT-880 additionally offers chin protection as well as neck and shoulder protection with a lightweight shroud.



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