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3M™ Versaflo™ S-Series Headcovers & Hoods

Technical Data Sheet

Description

The 3M™ Versaflo™ S-Series Headcovers and Hoods combine respiratory protection with head, or head, neck and shoulder coverage. The headtops are designed to be used with an approved 3M™ air delivery unit to form a respiratory protective device.

Features

- All 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.
  - Offer improved comfort, low air flow noise and reduced fogging.
  - Connect via the, strengthened BT-Series breathing tubes.
- Integrated head suspension headcovers and hoods (S1333, S-333, S-433, S-533):
  - Ready to use out of the box.
  - Most models available in two adjustable sizes Small and Large to comfortably fit more users than previous models.
  - Exhalation panel vents the headtop.
- Premium reusable suspension hoods (S-655, S-657, S-757- S-855):
  available on certain Hoods, please see Ordering Information for model and code.
  - 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.

Applications

The S-Series headtops can be used with an air-filtering unit to form a powered air respirator system or with air regulating valve to form a supplied air respirator system. According to the system chosen, protection is provided against:

- Particles e.g. fine dusts, mists and metal fume.
- Gases & vapours.
- Particles & gases combined.

Typical industries include:

- Medical and Healthcare (Non patient)
- Pharmaceutical Manufacturing
- Agriculture
- Food and Beverage
- Pulp and Paper Processing
- Surface Preparation and Coating
- Chemical Industry
- Woodworking

Compatible with

PAPR

TR-300+

TR-600

TR-800

PF-600E-ASB with S-333 and S-533 only

Continuous Flow Supplied Air

V-500E

V-100

V-200

V-300

Integrated Suspension S-Series

S-133S/S-133L

Head and face coverage. Integrated Comfort suspension. General purpose fabric.

S-333SG/S-333LG

Head and face coverage. high durability. Integrated comfort suspension. Soft durable, low linting fabric for user comfort.

S-433S/S-433L

Head, face, neck and shoulder coverage. Integrated suspension.

S-533S/S-533L

Head, face, neck, and shoulder coverage. Integrated suspension. Durable, soft, low-linting fabric that drapes more comfortably over the wearer

Premium Head Suspension

S-655

Head, face, neck and shoulder coverage. Its respiratory seal is a comfortable, knitted inner collar that is shorter and thinner than previous models. General purpose, cost-effective fabric

S-657

Similar to S-655. The S-657 uses a double shroud design for its respiratory seal; wearers can select their preferred seal design. The S-657 is worn by tucking the inner shroud into a shirt or protective coverall, allowing excess air to be channelled over the body

S-757

Similar to 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. Fabric has an internal film barrier to help prevent paint contact with skin or clothes

S-855

Similar to S-655 but made with Kappler® Zytron® 200, a polypropylene fabric with a multi-layer barrier film. Features sealed seams, making it suitable for environments where certain liquid splash hazards may be present. Includes a comfortable inner collar

Standards

The S-Series headtops, when used as part of an 3M™ Respiratory system have been shown to meet AS/NZS 1716:2012.

The S-Series headtops meet the performance requirements of Australian/New Zealand Standards AS/NZS 1716:2012:

- when connected to the 3M™ TR-800, TR-600, TR-300+
- when connected to the 3M™ Air Regulating Valve or 3M™ Vortex™ Regulators.

Limitations

- In atmospheres containing less than 19.5% oxygen
- Confined spaces (lack of ventilation)
- When the risk is considered to be immediately dangerous for life or health (IDLH)
- If connected to, TR-300+, TR-600 and TR-800 Turbo units, not for use if the concentration of gas/vapour contaminant is above 10 times the Exposure Standard
- If connected to, TR-300+, TR-600 or TR-800 Turbo units, not for use if the concentration of particulate contaminant is above 50 times the Exposure Standard
- When connected to a continuous flow airline system with an Air Regulating Valve or Vortex regulator, AS/NZS 1715 states these systems have a Required Minimum Protection Factor of 100+ against all contaminants.

Specifications

Minimum Protection Factor	10 for gas/vapour when connected to TR-600 and TR-800 turbo units. 100+ when connected to 3M™ Air Regulating Valve or 3M™ Vortex Regulators. 50 for particulates when connected to 3M™, TR-300+, TR-600 & TR-800 Turbo units.	
Minimum Manufacturer Design Flow (MMDF)	150 l/min	
Storage conditions	-30°C to +50°C < 90%RH	
Operating temperature	-10°C to +55°C.	
Weight (without breathing tube):	S-133S = 100g S-333SG = 125g S-433S = 130g S-533S = 170g S-655 = 310g S-757 = 315g	S-133L = 110g S-333LG = 130g S-433L =135g S-533L = 185g S-657 = 310g S-855 = 375g

Materials

- Headtop fabric (see table below for information)
- Visor (S-133/433/655/657/757) - PETG (S-333G/533/855E) - Polycarbonate
- Visor peel-offs - Polyester
- Integrated suspension headcovers and hoods:
  - Head suspension - Polyethylene
  - Air inlet – Polypropylene
- Premium reusable suspension hoods:
  - Head suspension – Polyethylene
  - Air channels – Polypropylene
  - Air inlet – ABS
  - Visor attachment clips – Nylon
  - Airflow adjustment cover - Nylon
- Comfort pad – Nylon scrim upper / polyurethane foam
- Size reducing comfort pad – Nylon scrim upper / polyurethane foam / nylon scrim lower

Note: For disposal, plastic and fabric parts can be quickly removed and separated for segregated waste streams, where facilities are available.

Model	Headtop Fabric	Exhalation panel fabric	Elastic/ Collar material
S-133S/L & S-433S/L	Spun bond polypropylene laminated to polypropylene film	Spun bond polypropylene	Nylon/ elastane face seal
S-333SG/ LG & S-533S/L	Polyurethane coated knitted nylon	Spun bond polypropylene	Nylon/ elastane face seal
S-655	Spun bond polypropylene laminated to polypropylene film	N/A	Knitted cotton yarn/ elastic collar
S-657	Spun bond polypropylene laminated to polypropylene film	N/A	Nylon/ elastane elastic
S-757	Spun bond polypropylene laminated to both sides of polypropylene film Inner Shroud: Spun bond polypropylene	N/A	Nylon/ elastane elastic
S-855	Spun bond polypropylene with Kappler Zytron 200 multi-layer barrier - has sealed seams	N/A	Elastic collar material is knitted polyester

Note: S-655, S-657 & S-757 are premium hoods with reusable suspensions.

Ordering Information

SAP ID	Legacy ID	Availability AUS	Availability NZ	Model #	Description
7000044300	52000045782	•		S-133S	3M™ Headcover with Integrated Head Suspension S-133S, Small, 1 ea/Case
7000000142	52000045824	•	•	S-133L	3M™ Headcover with Integrated Head Suspension S-133L, Large 1 ea/Case
7000044301	52000045865	•	•	S333SG	3M™ High Durability Headcover with Integrated Head Suspension S-333S, Small 1 ea/Case
7000000144	52000045881	•	•	S333LG	3M™ High Durability Headcover with Integrated Head Suspension S-333L, Large 1 ea/Case
7000044302	52000045907	•		S-433S	3M™ Hood with Integrated Head Suspension S-433S, Small 1 ea/Case
7000000145	52000045923	•	•	S-433L	3M™ Hood with Integrated Head Suspension S-433L, Large 1 ea/Case
7100011287	52000045949	•		S-533S	3M™ High Durability Hood with Integrated Head Suspension S-533S, Small, 1 ea/Case
7000000147	52000045964	•	•	S-533L	3M™ High Durability Hood with Integrated Head Suspension S-533L, Large, 1 ea/Case
7100079870	UU003722327	•	•	S-655	3M™ Versaflo™ S-Series Hood with Inner Collar S-655, 1 ea/Case
7100079871	UU003722335	•	•	S-657	3M™ Versaflo™ Hood Assembly with Inner Shroud and Premium Head Suspension S-657, 1 ea/Case
7100079872	UU003719109	•	•	S-757	3M™ Versaflo™ S-Series Painters Hood Assembly Single Size S-757, 1 ea/Case
7100077662	70071533338	•	•	S-855	3M™ Hood Assembly with Sealed Seams Inner Collar & Premium Head Suspension S-855, 1 EA/Case

BT-20 S/L

BT-30

BT-40

QR-PSA-BT

Scan or Click for Tech Data Sheet

Breathing Tubes

SAP ID	Legacy ID	Availability AUS	Availability NZ	Model #	Description
7100296133	70071767472	•		BT-20L	3M™ Versaflo™ Breathing Tube BT-20L, Medium/Large, 1 ea/Case. Fixed length lightweight Polyurethane L=965mm
7100134625	70071533023	•		BT-20S	3M™ Versaflo™ Breathing Tube, BT-20S/37309(AAD), Small/Medium, 1 EA/Case. Short Fixed length lightweight Polyurethane L=735mm
7100006955	XA007706584	•	•	BT-30	3M™ Versaflo™ Breathing Tube, Self-adjusting, BT-30 L= 525-850
7100069524	UU003085113	•	•	BT-40	3M™ Versaflo™ Heavy Duty Breathing Tube BT-40, 1 ea/Case Fixed length Neoprene Rubber L=840mm

Technical Statement

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S-950 The external adjuster lets wearers modify the location of the airflow.

S-953

S-920S/S-920L/ S-922

S-605

S-607

S-707

S-805

Spare Parts & Accessories

SAP ID	Legacy ID	Availability AUS	Availability NZ	Model #	Description
7100347559	7012866682 (AU) AT010582792 (AU) 7000000149 (NZ) 52000045980 (NZ)	•	•	S-605	3M™ Versaflo™ Replacement Hood S-605 for S-655
7100350374	7012880837 (AU) AT010582800 (AU) 7000000151 (NZ) 52000046004 (NZ)	•	•	S-607	3M™ Versaflo™ Replacement Hood S-607 for S-657
7100349622	7012870630 (AU) AT010582818 (AU) 7000027992 (NZ) 52000046020 (NZ)	•	•	S-707	3M™ Versaflo™ Replacement Double Laminate Hood with Inner Shroud S-707-10, for use with Premium Reusable Head, 10/Pack. For S-757
7000052769	70071533312	•	•	S-805	3M™ Versaflo™Replacement Hood with Sealed Seams and Inner Collar S-805-5, for use with Premium Head Suspension, 5 ea/Case. For S-855
7000027993	AT010584319	•	•	S-920S	3M™ Versaflo™ Peel-Off Visor Cover S-920S, Small, 10/Bag, 40 ea/Case
7000042683	AT010584301	•	•	S-920L	3M™ Versaflo™ Peel-Off Visor Covers S-920L, Large, 40 ea/Case
7000000156	AT010584327 (AU) 52000046103 (NZ)	•	•	S-922	3M™ Versaflo™ Peel-Off Visor Cover S-922, Premium Hoods, 10/Bag, 4 Bags/Case
7100005445	70071533395	•	•	S-950	3M™ Versaflo™ Premium Head Suspension, S-950, for S-600 S-700 and S-800 Hood Assemblies, 1 EA/Case
7000042684	52000046152	•	•	S-953	3M™ Versaflo™ Comfort Pad S-953, 20 ea/Case

3M™ S-Series Hoods and Headcovers Comparison Chart

	S-133S S-133L	S-333S S-333L	S-433S S-433L	S-533S S-533L	S-655/S-657	S-757	S-855
Availability	AU & NZ (L only)	AU & NZ	AU & NZ (L only)	AU & NZ (L only)	AU	AU	AU
Style	Headcover	Headcover	Hood with faceseal	Hood with faceseal	Hood with neck collar (S-605)/Hood with inner shroud (S-607)	Hood with inner shroud	Hood with neck collar
Air sources approved with*	V-Series (V-100, V-200, V-300, V-500E) TR-300+ TR-600 TR-800	V-Series (V-100, V-200, V-300, V-500E) TR-300+ TR-600 TR-800 PF-600E-ASB	V-Series (V-100, V-200, V-300, V-500E) TR-300+ TR-600 TR-800	V-Series (V-100, V-200, V-300, V-500E) TR-300+ TR-600 TR-800 PF-600E-ASB	V-Series (V-100, V-200, V-300, V-500E) TR-300+ TR-600 TR-800	V-Series (V-100, V-200, V-300, V-500E) TR-300+ TR-600 TR-800	V-Series (V-100, V-200, V-300, V-500E) TR-300+ TR-600 TR-800
Head Suspension	Integrated	Integrated	Integrated	Integrated	S-950 Premium Reusable Suspension	S-950 Premium Reusable Suspension	S-950 Premium Reusable Suspension
Fabric Type	Polypropylene coated nonwoven polypropylene	Polyurethane coated knitted polyamide	Polypropylene coated nonwoven polypropylene	Polyurethane coated knitted polyamide	Polypropylene coated nonwoven polypropylene	Polypropylene coated nonwoven polypropylene	Zytron® 200
Approx. Weight[1] g	104 g 131 g	131 g 166 g	129 g 139 g	161 g 175 g	309 g 310 g	290 g	470 g 460 g
Approx. Visor Area	S: 364 sq. cm L: 412 sq. cm	S: 364 sq. cm L: 412 sq. cm	S: 364 sq. cm L: 412 sq. cm	S: 364 sq. cm L: 412 sq. cm	452 sq. cm	452 sq. cm	344 sq. cm
Maximum Size Range[2]	S/M: Head Circumference 50 - 58 cm M/L: Head Circumference 54 - 64 cm	S/M: Head Circumference 50 - 58 cm M/L: Head Circumference 54 - 64 cm	S/M: Head Circumference 50 - 58 cm M/L: Head Circumference 54 - 64 cm	S/M: Head Circumference 50 - 58 cm M/L: Head Circumference 54 - 64 cm	Head Circumference 52 - 64 cm	Head Circumference 52 - 64 cm	Head Circumference 52 - 64 cm
Visor Material	Polycarbonate	Coated polycarbonate	Polycarbonate	Coated polycarbonate	Polycarbonate	Coated polycarbonate	Coated polycarbonate
Approx. Visor Thickness	0.5 mm	0.38 mm	0.5 mm	0.5 mm	0.5 mm	0.25 mm	0.75 mm
Replacement Hood Only					S-605/S-607	S-707	S-805
Operating Temp. Range	-10° C to 55° C	-10° C to 55° C	-10° C to 55° C	-10° C to 55° C	-10° C to 55° C	-10° C to 55° C	-10° C to 55° C
Storage Temp. Range	← -30° C to 50° C → Note: 4° C to 35° C suggested storage temperature range if product will be stored for an extended period before first use						
Suggested Shelf Life	← 3 year suggested shelf life for all models when stored in original packaging. User must inspect headgear prior to use to determine serviceability →						
Heat/Flame Resistance	← Headgear should not be exposed to high heat, flame or sparks →						
Natural Rubber Latex	← Does not contain components made from natural rubber latex →						

*Refer to catalogue sections for further information on each product and country availability

1) Weight is complete assembly (hood plus head harness). Use of optional size reducing pad with the S-600, 700, 800 series will add approx. 6 g (0.2 oz.) to the overall weight.

2) Consult S-Series User Instructions for detailed sizing guidelines, charts and optional sizing pads.

SCAN OR CLICK FOR:

QR-CAT-PAPR	QR-CAT-CFSA	QR-CAT-FULL
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