

 **Speedglas™**



Adflo PAPR



9100



9100-Air



9100 FX



9100 FX-Air



9100 MP



Fresh-air III SAR



SL



100 Series



3M Welding Helmet 10



3M Headgear L-Series SG



3M Faceshield ClearVisor

PRODUCT OVERVIEW

3M Welding PPE Presentation



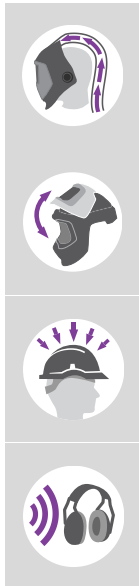
Product overview

Welding Helmet Options

Options	3M™ Speedglas™ Welding Helmet 9100 Series and 3M™ Headgear L-Series SG					3M™ Speedglas™ Welding Helmet SL	3M™ Speedglas™ Welding Helmet 100 series			3M™ Welding Helmet 10
Welding Filters	 9100XXi	 9100XX	 9100X	 9100V	 9100 Passive	 SL	 100V	 100S-10	 100S-11	 10V
Welding Helmets										

Options	With Hard Hat (Non-Air)	With 3M™ Adflo™ Powered Air Purifying Respirator	With 3M™ Speedglas™ Fresh Air III Supplied Air Regulator
Welding Helmet Systems	  	    	  

3M™ Speedglas™ Welding Helmet 9100 MP



Compatible with 3M™ Speedglas Welding Filter Series 9100, including our top-of-the-line 9100XX filter.

A large (approx. 8 in. x 4.25 in.), curved, protective visor with excellent views up, down and peripherally. Meets the requirements of CSA Z94.3 and the high impact requirements of ANSI Z87.1 – 2010.

Two shade 5 passive side windows add peripheral welding vision.

The hard hat shell is made from heat resistant polycarbonate and meets the ANSI Z89.1-2009 requirements for Type 1 Class G hard hats. An optional, aluminum fabric reflects radiant welding heat.

Designed from inception to work in combination with our optional 3M™ Peltor™ Earmuff Assembly M-985: low-profile hearing protection with liquid/foam ear cushions.



3M™ Speedglas™ Welding Helmet 9100MP

Welding filter options	9100XXi	9100XX Filter	9100X Filter	9100V Filter
Viewing area welding filter (approx.)	2.8 x 4.2 in. (72 x 107 mm)	2.8 x 4.2 in. (72 x 107 mm)	2.1 x 4.2 in. (54 x 107 mm)	1.8 x 3.7 in. (45 x 93 mm)
Battery lifetime (approx.)	1800 Hours	2000 hours	2500 hours	2800 hours
Solar cell	NO	NO	YES	
Hard hat options	YES	YES		
Classification (per EN 379)*	2.8 x 4.2 in. (72 x 107 mm)	C		
Dark state	Shade 5, 8, 9,-13	Shade 5, 8, 9,-13		
Light state	Shade 3	Shade 3		
UV/IR Protection	Shade 13 (permanent)	Shade 13 (permanent)		
Auto ON	NO	NO		
Switching time, light-dark (approx.)	0.1 ms (+23°C)	0.1 ms (+23°C)		
Delay: switching time, dark-light (approx.)	40–1 300 ms	40–1 300 ms		
Side windows option	YES	YES		
Exhaust vents	N/A	N/A		
Number of sensors (arc detection)	3	3		
Approvals Head, Eye and Face protection Welding helmet, Welding filter, Protection plates Hard Hat	ANSI Z87.1 – 2010 / CSA Z94.3 ANSI Z89.1-2009-Type 1, Class G	ANSI Z87.1 – 2010 / CSA Z94.3 ANSI Z89.1-2009-Type 1, Class G		
Approval Respiratory Protection Adflo Powered Air Purifying Respirator Fresh-air III supplied air valve	APF 25 APF 25	APF 25 APF 25		

* Per European Standard EN 379, auto-darkening welding filters have a four-part classification: optical class / diffusion of light / variation on luminous transmittance / angle dependence. Classifications range from 1 to 3, with 1 being the best.

3M™ Speedglas™ Auto-Darkening Filter Series 9100

Excellent Optics, Wider Views

Magnification made easy. The magnifying lens holder is built into the welding filter, making lens installation easier and more secure.

The Speedglas welding filter series 9100 include three auto-darkening filters: regular, large and extra-large viewing area.



The tack welding comfort mode uses an intermediate shade 5 light state to help minimize eye strain during extended tack welding applications.

You can adjust the sensitivity of the arc detection for switching reliability.



New 9100XXi

The Delay function allows you to set the dark-to-light switching time.

Seven user selectable dark shades for most types of arc welding.

FEATURES

TECHNICAL FACTS

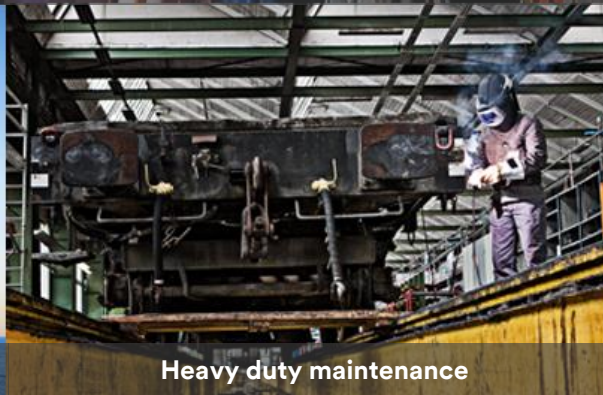
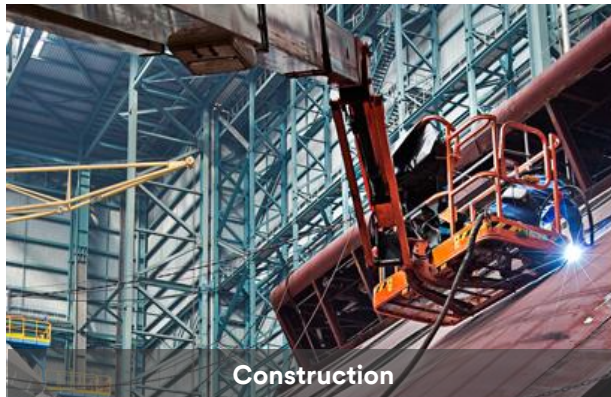
FUNCTIONS

CARE & MAINTENANCE

ACCESSORIES

PARTS LIST

3M™ Speedglas™ Welding Helmet 9100 MP/ Heavy Industries Requiring Multi-Protection



FEATURES

TECHNICAL FACTS

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3M™ Speedglas™ Welding Helmet 9100 MP



27-0099-85
Throat and neck coverage



27-0099-84
Radiant heat hard hat cover



27-0099-87
Complete neck coverage



06-0500-56 – 06-0500-59
Magnification plates 1.5X, 2.0X, 2.5X and 3.0X



35-5401-01
3M™ Adflo™ Turbo Assembly



35-3499-01
3M™ Adflo™ Turbo Assembly with High Altitude Compensation

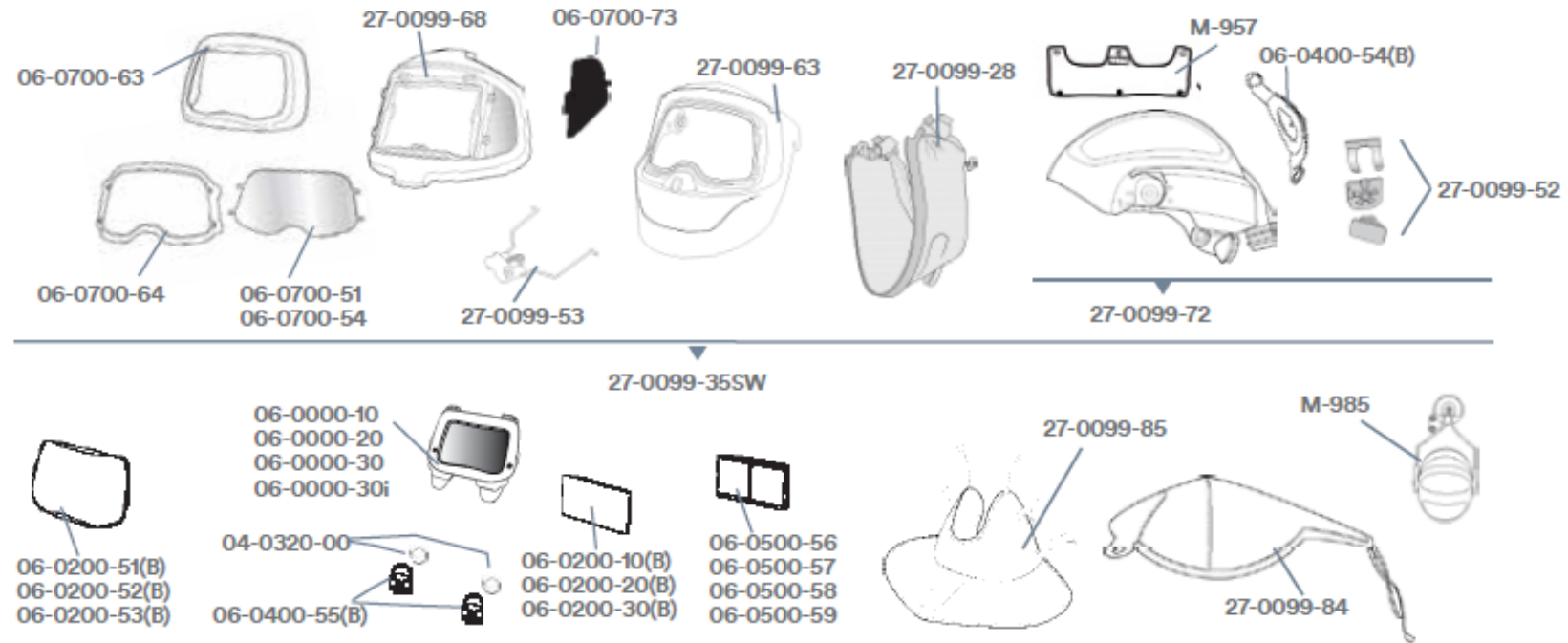


V-100 Vortex cooling assembly
V-200 Vortemp heating assembly
V-300 Air-regulating valve
V-400 Low pressure connector assembly



M-985
3M™ Peltor™ Earmuff Assembly

3M™ Speedglas™ Welding Helmet 9100 MP



3M™ Speedglas™ Welding Helmet 9100 MP



Part No	Description
37-1101-10SW	Speedglas welding helmet 9100 MP with Adflo PAPR with HE filter, lithium ion battery, and welding filter 9100V
37-1101-20SW	Speedglas welding helmet 9100 MP with Adflo PAPR with HE filter, lithium ion battery, and welding filter 9100X
37-1101-30SW	Speedglas welding helmet 9100 MP with Adflo PAPR with HE filter, lithium ion battery, and welding filter 9100XX
37-1101-00SW*	Speedglas welding helmet 9100 MP with Adflo PAPR with HE filter, lithium ion battery, and NO welding filter
37-1101-00SWHA	Speedglas welding helmet 9100 MP with Adflo PAPR with HE filter, lithium ion battery, and NO welding filter High Altitude

Part No	Description
27-5702-00SWSR	Speedglas welding helmet 9100 MP with NO welding filter and Fresh-air III SAR, V-100 cooling valve
27-5702-10SW	Speedglas welding helmet 9100 MP with welding filter 9100V and Fresh-air III SAR, V-100 cooling valve
27-5702-20SW	Speedglas welding helmet 9100 MP with welding filter 9100X and Fresh-air III SAR, V-100 cooling valve
27-5702-30SW	Speedglas welding helmet 9100 MP with welding filter 9100XX and Fresh-air III SAR, V-100 cooling valve
27-5902-10SW	Speedglas welding helmet 9100 MP with welding filter 9100V and Fresh-air III SAR, V-300 air-regulating valve
27-5902-20SW	Speedglas welding helmet 9100 MP with welding filter 9100X and Fresh-air III SAR, V-300 air-regulating valve
27-5902-30SW	Speedglas welding helmet 9100 MP with welding filter 9100XX and Fresh-air III SAR, V-300 air-regulating valve



Personal Safety Division

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Phone 1-800-328-1667

Web www.3M.com/workersafety

3M PSD products are occupational use only.

3M Personal Safety
Service & Technical Support Center

1-800-243-4630 or visit www.3M.com/workersafety

For a complete listing of parts, visit us at:
www.3M.com/weldingsafety

Note: Welding can create a variety of harmful fumes and gases. When engineering controls are impractical, respirators may be required to help reduce exposures to these airborne welding contaminants.

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⚠ WARNING

These respirators help protect against certain airborne contaminants. Before use, the wearer must read and understand the User Instructions provided as a part of the product packaging. A written respiratory protection program must be implemented meeting all the requirements of OSHA 1910.134 including training, fit testing and medical evaluation. In Canada, CSA standards Z94.4 requirements must be met and/or requirements of the applicable jurisdiction, as appropriate. Misuse may result in sickness or death. For proper use, see packaging instructions, supervisor, or call 3M OH&ESD Technical Service in USA at 1-800-243-4630 and in Canada at 1-800-267-4414.

⚠ WARNING

This product is designed to help protect the wearer's eyes and face from harmful radiation including visible light, ultra-violet radiation (UV), infra-red radiation (IR), sparks and spatter resulting from welding processes. These products must be used only by qualified persons who are properly trained in their use and maintenance. Misuse may result in permanent eye injury and vision loss. Always wear ANSI Z87.1 compliant safety spectacles in addition to any welding helmet. For proper use, see supervisor, or User Instructions or call 3M in U.S.A. 1-800-243-4630. In Canada, call Technical Service at 1-800-267-4414.