

# 3M™ Speedglas™ 9100-Air and Speedglas™ 9100 FX-Air Welding Helmets



The new 3M™ Speedglas™ 9100-Air Welding Helmet Series is specially created to satisfy a wide range of welder's unique welding needs. It combines comfort with enhanced respiratory protection, wider precision viewing and increased flexibility for safer work efficiency. Designed to protect, this revolutionary technology fundamentally changes not only how the user wears the helmet, but also how the welder experiences its fit, comfort, stability and balance.

The **9100 FX-Air** offers several advanced features such as Side Windows and large viewing area that professional and serious welders will appreciate. The **9100-Air** features a unique and flexible head suspension design that provides a more comfortable, stable and balanced "fit" for the welder, when compared to traditional single, top-of-the-head straps.

Each helmet readily connects to the 3M™ Adflo™ PAPR or the 3M™ Fresh-air III Supplied Air Regulators to help provide high levels of respiratory protection.

[3M.com/Speedglas](http://3M.com/Speedglas)

**3M**

# 3M™ Speedglas™ 9100-Air Welding Helmet

The new 9100-Air is designed for enhanced comfort and protection. The helmet has a smooth up-and-down pivot action that gently locks in the 'up' position. It comes with a highly adjustable head suspension system and a well-balanced design which improves the center of gravity by keeping the helmet closer to the user's head in both the up and down positions—making the helmet feel lighter, more stable and balanced at all times.

Plus, the revolutionary helmet design offers additional coverage and protection of the ears, sides of the head and neck from sparks, metal grindings and other splatter debris.

## Respiratory technology

- Air duct helps provide refreshing airflow across the entire breathing zone
- Middle air channel helps keep the auto-darkening filter virtually fog free, while the two side air channels help to provide evenly distributed air to the other areas of the breathing zone

## Innovative head suspension

- Back of headband is self-adjusting and swivels to fit different head shapes
- Four settings let you determine the distance between your face and the helmet for optimum viewing
- Unique 2-strap crown adjustment for increased stability and reduced pressure on the top of the head
- Smooth ratchet mechanism lets you manually tighten the helmet to your personal preference



**Respiratory Protection** Both helmets readily connect to two different 3M™ air delivery units.



The 3M™ Adflo™ PAPR is an ideal solution where powered air respiratory protection is desired.



The 3M™ Fresh-air III Supplied Air Regulators are available for those who seek a supplied air respiratory protection and can provide up to +/- 50°F (28°C) heating or cooling for increased productivity.

# 3M™ Speedglas™ 9100 FX-Air Welding Helmet

## Improved air delivery system

- A unique, integrated air duct system channels the air to the face area for cooling in hot work environments. Front exhaust units reduce fogging in humid conditions
- Adjustable breathing tube at back of helmet is made of flexible tubing, so it does not stick out rigidly and lets users work in tight spaces or when lying on their back
- Respiratory protection is maintained when outer shield (ADF) is flipped in the upward position
- Breathing tube is attached to the headband instead of the helmet, so there is less pulling on the helmet from the breathing tube

## Unique helmet design

- A clear, large 17 x 10 cm (8" x 4.25") view that is ideal for precision grinding and set-up tasks in low-light conditions
- Shade 5 SideWindows provide peripheral vision for increased safety when the welding shield is in place, optional covers are available to block the SideWindows for times when other welder's are nearby
- Extended helmet coverage helps to protect from harmful UV rays that can contribute to skin cancer
- Clear inner grinding visor widened for increased peripheral vision enables users to work in tight spaces without turning their head

The new 9100 FX-Air combines 3M's legendary Speedglas quality and auto darkening technology (ADF) with an innovative wide-view grinding visor and improved respiratory protection system to give welders an all-in-one solution for more welding flexibility, precision and efficiency.

A smooth flip-up pivot mechanism assures effortless transition from welding to grinding modes. The exceptionally clear, wide grinding visor offers a greater field of view.



## Superior optics

The 3M™ Speedglas™ 9100 Series Welding Auto Darkening Filters (ADFs) continue our tradition of outstanding optical quality, including uniform shading and minimal distortion across the entire filter viewing area.

- Both new helmets are compatible with any of the three Speedglas™ ADFs of differing sizes (9100X, 9100V, 9100XX), and feature a built-in mag plate holder
- Seven user-selectable dark shades (5, 8-13), with the option to lock-in your shade for torch and plasma cutting
- A tack welding comfort mode to help reduce eye fatigue during tacking applications, and a shade 3 grinding mode
- Outstanding low-amp TIG performance, even on settings as low as 1 amp



	Viewing area (approx.)	Battery life (approx.)
9100V	45 x 93 mm (1.8 x 3.7 in)	2,800 hrs
9100X	54 x 107 mm (2.1 x 4.2 in)	2,500 hrs
9100XX	73 x 107 mm (2.8 x 4.2 in)	2,000 hrs

## Ordering Information

3M™ Speedglas™ 9100-Air and 9100 FX-Air Welding Helmets with Adflo™ Powered Air Purifying Respirator (PAPR) Systems					
Product Description		9100V	9100X	9100XX	No ADF
9100-Air welding helmet with Adflo™ PAPR High Efficiency System, 1/cs	Product #	25-1101-10SW-CA	25-1101-20SW-CA	25-1101-30SW-CA	25-1101-00SW-CA
	UPC	00051131498356	00051131498372	00051131498389	00051131498259
9100 FX-Air welding helmet with Adflo™ PAPR High Efficiency System, 1/cs	Product #	26-1101-10SW-CA	26-1101-20SW-CA	26-1101-30SW-CA	26-1101-00SW-CA
	UPC	00051131497269	00051131497276	00051131497283	00051131497184

3M™ Speedglas™ 9100-Air and 9100 FX-Air Welding Helmets with Fresh-Air III Supplied Air System with V-100 Vortex Air-Cooling valve				
Product Description		9100V	9100X	9100XX
9100-Air welding helmet with Fresh-Air III Supplied Air System V-100 Vortex Air-Cooling valve, 1/cs	Product #	25-5702-10SW-CA	25-5702-20SW-CA	25-5702-30SW-CA
	UPC	00051131498426	00051131498433	00051131498440
9100 FX-Air welding helmet with Fresh-Air III Supplied Air System V-100 Vortex Air-Cooling valve, 1/cs	Product #	26-5702-10SW -CA	26-5702-20SW-CA	26-5702-30SW-CA
	UPC	00051131497320	00051131497337	00051131497334

3M™ Speedglas™ 9100-Air and 9100 FX-Air Welding Helmets with Fresh-Air III Supplied Air System with V-200 Vortemp™ Air-Heating valve				
Product Description		9100V	9100X	9100XX
9100-Air with welding helmet with Fresh-Air III Supplied Air System V-200 Vortemp™ Air-Heating valve, 1/cs	Product #	25-5802-10SW-CA	25-5802-20SW-CA	25-5802-30SW-CA
	UPC	00051131498303	00051131498464	000511314983471
9100 FX-Air welding helmet with Fresh-Air III Supplied Air System V-200 Vortemp™ Air-Heating valve, 1/cs	Product #	26-5802-10SW-CA	26-5802-20SW-CA	26-5802-30SW-CA
	UPC	00051131497214	00051131497368	00051131497375

Parts & Accessories				
Product Number	Description	3M Stock Number	Each / Case	UPC
25-0099-28	3M™ Speedglas™ 9100-Air Face Seal	70071607678	1	00051131498341
26-0099-28	3M™ Speedglas™ 9100 FX-Air Face Seal	70071606829	1	00051131372672
25-0400-55	3M™ Speedglas™ 9100-Air Duct Assembly	70071607686	1	00051131498358
26-0400-55	3M™ Speedglas™ 9100 FX-Air Duct Assembly	70071606837	1	00051131497245
06-0700-54	3M™ Speedglas™ 9100FX Wide-View, Clear Grinding Visor, Anti-Fog	70071606340	5	00051131496781
06-0700-51	3M™ Speedglas™ 9100 FX-Air Wide-View Clear Grinding Visor	70071606332	5	00051131496774
06-0700-85	3M™ Speedglas™ 9100 FX-Air Diffuser	70071606845	1	00051131497252
SG-15	3M™ Speedglas™ Breathing Tube Cover	70071607975	1	00051131498709
SG-30W	3M™ Speedglas™ Self-Adjusting Breathing Tube	70071606852	1	00051131372689
SG-40W	3M™ Speedglas™ Heavy Duty Breathing Tube	70071606860	1	00051131372696
SG-50W	3M™ Speedglas™ Sound-Dampening Breathing Tube	70071608155	1	00051131498990
06-0500-51	3M™ Speedglas™ Extended Coverage 9100, Crown	70071510344	1	00051135893753
06-0700-82	3M™ Speedglas™ Extended Headcover 9100FX / 9100FX-Air, Head & Neck	70071606449	1	00051131496989
06-0700-83	3M™ Speedglas™ Full Hood, Black	70071606381	1	00051131496828

For a complete listing of related products, spare parts and accessories, contact your 3M Sales Representative, Distributor, or Technical Service.

## Technical Specifications

	9100-Air	9100 FX-Air
Respiratory	Provides respiratory protection APF25	
Eye and Face Protection	Meets the requirements of CSA Z94.3 & ANSI Z87.1	
Spark, spatter and UV protection	Comes standard with extended head protection. Optional flame-resistant full head protection and extended ear and neck protection accessories can be purchased separately.	
Grinding visor viewing angle (approx.)	n/a	170 degrees
Weight (approx.)	28.9 oz (9100V)	34.2 oz (9100V)
	29.3 oz (9100X)	34.6 oz (9100X)
	34.2 oz (9100V)	36.2 oz (9100XX)
Head sizes	6 ¼ to 8 (50-64 cm)	

3M Canada Occupational Health & Environmental Safety  
Service & Technical Support Centre  
1-800-267-4414 or visit [www.3m.ca/safety](http://www.3m.ca/safety)



**Occupational Health and Environmental Safety**  
**3M Canada**  
P.O. Box 5757  
London, Ontario N6A 4T1

**For More Information**  
Customer Service: 1-800-364-3577

[www.speedglas.com](http://www.speedglas.com)

**⚠ 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 complaint safety eyewear as required in your jurisdiction, such as CSA Z94.3 or ANSI Z87.1, in addition to welding helmet. For proper use, see your supervisor, the user instructions or call 3M OH&ESD Technical Service Canada at 1-800-267-4414.

**⚠ 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 should be implemented meeting the requirements in your jurisdiction and/or CSA standard Z94.4. Misuse may result in sickness or death. For proper use, see your supervisor, the user instructions or call 3M OH&ESD Technical Service Canada at 1-800-267-4414.

**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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