

**Welding Helmets / Auto-Darkening Filters**

**Speedglas™ Helmets and Auto-Darkening Filters (ADFs)**

- Safety products that help increase welding performance
- Constant UV/IR protection
- Welding helmets that breathe
- Helmet option with side windows to improve visibility, safety and comfort
- Ideal for weld prep/grinding



**The Speedglas™ SideWindows**

Speedglas™ SideWindows helmets from 3M™ allow for peripheral vision. The two shade 5 side filters increase the peripheral viewing area by over 100%. The two side filters are designed solely for peripheral vision; the welder continues to view his own arc through the center (auto-darkening) filter.



**The Speedglas™ ProTop System**

3M™ has an exclusive pivot mechanism that “nests” the welding helmet down low over the hardhat, in a balanced, secure position. The lower center-of-gravity helps reduce neck strain.



**The Speedglas™ FlexView System**

Available from 3M™, these helmets have a big 4.7 in. x 3.6 in. (120mm x 90mm) clear polycarbonate faceshield that’s ideal for precision weld preparation work under a variety of lighting conditions. The user simply lifts up the spring-mounted Speedglas™ filter assembly for weld prep. The faceshield meets the ANSI Z87.1-2003 industrial eye and face protection standard.



**Specification Chart for Speedglas™ Helmets**

	<b>9002X</b>	<b>9002V</b>	<b>9000XF</b>	<b>9002D</b>	<b>Utility</b>
	<ul style="list-style-type: none"> <li>• Variable Shade</li> <li>• Shades 9 to 13</li> <li>• MIG, Stick, TIG</li> <li>• Large Viewing Area</li> <li>• 4 Sensitivity Adjustments</li> <li>• 3 Delay Settings</li> <li>• Solar Panel</li> </ul>	<ul style="list-style-type: none"> <li>• Variable Shade</li> <li>• Shades 9 to 13</li> <li>• MIG, Stick, TIG</li> <li>• 4 Sensitivity Settings</li> <li>• 3 Delay Settings</li> </ul>	<ul style="list-style-type: none"> <li>• Fixed Shade</li> <li>• Available in Shades 10, 11, or 12</li> <li>• MIG, Stick, some TIG</li> <li>• Large Viewing Area</li> <li>• Sensitivity Adjustment</li> <li>• Solar Panel</li> </ul>	<ul style="list-style-type: none"> <li>• Dual Shades 10 and 11</li> <li>• MIG, Stick, some TIG</li> </ul>	<ul style="list-style-type: none"> <li>• Fixed Shade</li> <li>• Available in Shades 10 or 11</li> <li>• MIG and Stick</li> </ul>
Helmet System(s)	9002X	9002V	9000XF	9002D	Utility
Standard	04-0012-21	04-0012-31	04-0012-10	04-0012-15	04-0014-10U
SideWindows	04-0012-21SW	04-0012-31SW	04-0012-10XSW	04-0012-15SW	N/A
ProTop	04-0015-21	04-0015-31	04-0015-10X	04-0015-15	N/A
ProTop + SideWindows	04-0015-21SW	04-0015-31SW	04-0015-10XSW	04-0015-15SW	N/A
FlexView	04-0016-21	04-0016-31	04-0016-10X	04-0016-15	N/A
FlexView + SideWindows	04-0016-21SW	04-0016-31SW	04-0016-10XSW	04-0016-15SW	N/A
FlexView + ProTop	04-1516-21	04-1516-31	04-1516-10X	04-1516-15	N/A
FlexView + ProTop + SideWindows	04-1516-21SW	04-1516-31SW	04-1516-10XSW	04-1516-15SW	N/A

**Speedglas™ Replacement Lenses**

The inner lens of the filter assembly provides the same continuous UV/IR protection as a traditional shade 13 filter plate (as regulated by USA and Canadian welding safety standards). Note: Because faceshields and welding shields can be raised from the normal position, ANSI Z87.1-2003 states that safety glasses must be used in conjunction with these helmets.



Helmet Model	Outer Lens	Inner Lens (filter)
AT, APC & *APC-V	02-0270-00	02-0280-00
XL	03-0270-00	03-0280-00
Utility & 9000 series		
9000X & XF	04-0270-00	04-0280-00
9000F & V		04-0290-00

\* Discontinued Helmet Model

## Speedglas™ SL Welding Helmet

- State-of-the-art liquid crystal design.
- Superior optics for visual clarity and weld pool control.
- Light state of shade 3, dark shade range 8-12.
- 4 sensitivity levels for all welding processes, even extreme low amp TIG.
- Patented auto On/Off technology.
- New headband with fast-adjusting, flexible, multiple position headband.
- Factory equipped hard-coated outside protection for abrasion and spatter resistance.
- Replaceable batteries.
- Fully ANSI Z87.1-2003 compliant.

### Headgear Design

- 2-size front portion of suspension fits more head sizes and face shapes.
- 4-position, back/forth slide adjustment.
- Adjustment in rear, for easy one-hand tightening and push-button adjustment.



Part No.	Description
05-0013-00	SL helmet (helmet only – does not include headband)
05-0013-41	SL helmet with auto-darkening filter, shade 8-12
05-0000-41	Auto-darkening filter, shade 8-12

## Replacement Parts and Accessories for 3M™ Speedglas™ Filters and SL Helmet



Part No.	Description	Case Qty
<b>Protection Plates</b>		
05-0250-00	Outside protection plate	5 per case
05-0250-01	Outside protection plate (hard-coated and painted)	5 per case
<b>Miscellaneous Parts/Accessories</b>		
05-0370-00	Battery holder	2 per case
05-0650-00	Headband and mounting hardware	1 per case
05-0660-00	Headband assembly kit	10 per case

## Air-Purification Systems

### 3M™ Speedglas™ with Adflo™ System

- Lightweight, compact, all-in-one system.
- Exclusive “stackable” configuration allows the Adflo™ high efficiency (HE) particulate filter to be combined with a chemical cartridge for additional protection.
- Designed for comfort within exhausting and hard-to-breathe environments which can help lead to more productive work time.



Adflo™ System	9002X	9002V	9000XF	9002D
(HE) with 9000 HWR Helmet	15-1101-21	15-1101-31	15-1101-10X	15-1101-15
(HE) with 9000 HWR Helmet SideWindows	15-1101-21SW	15-1101-31SW	15-1101-10SW	15-1101-15SW
(HE) with FlexView System Helmet	16-1101-21	16-1101-31	16-1101-10X	16-1101-15
(HE) with FlexView System Helmet SideWindows	16-1101-21SW	16-1101-31SW	16-1101-10SW	16-1101-15SW
(HE + OV/SD/CL/HC) with 9000 HWR Helmet	15-3301-21	15-3301-31	15-3301-10X	15-3301-15
(HE + OV/SD/CL/HC) with 9000 HWR Helmet SideWindows	15-3301-21SW	15-3301-31SW	15-3301-10SW	15-3301-15SW
(HE + OV/SD/CL/HC) with FlexView System Helmet	16-3301-21	16-3301-31	16-3301-10X	16-3301-15
(HE + OV/SD/CL/HC) with FlexView System Helmet SideWindows	16-3301-21SW	16-3301-31SW	16-3301-10SW	16-3301-15SW

**NOTE:** Not for paint spraying of flammable substances, or where intrinsic safety is required.

Because faceshields and welding shields can be raised from the normal position, ANSI Z87.1-2003 states that safety glasses must be used in conjunction with these respirators.

### 3M™ Fresh-air II Supplied Air System

- The NIOSH-approved supplied air (SA) 9000 system provides respiratory protection from airborne particulates and gases. The lightweight, belt-mounted valves permit the welder to adjust the temperature of the air entering the headpiece, making it ideal for very hot or strenuous jobs.
- Cool-air valve permits welder to lower the temperature of the supplied air by up to 45°F (25°C).
- Temp-air valve allows either cooling or warming of the supplied air ±45°F from the supplied air temperature.



Fresh-air II Supplied Air Systems	9002X	9002V	9000XF	9002D
Cool-air (CA) System with 9000 HWR Helmet	14-5701-21	14-5701-31	14-5701-10X	14-5701-15
Cool-air (CA) System with 9000 HWR Helmet and SideWindows	14-5701-21SW	14-5701-31SW	14-5701-10XSW	14-5701-15SW
Temp-air (TA) System with 9000 HWR Helmet	14-5801-21	14-5801-31	14-5801-10X	14-5801-15
Temp-air (TA) System with 9000 HWR Helmet and SideWindows	14-5801-21SW	14-5801-31SW	14-5801-10XSW	14-5801-15SW

**NOTE:** Final determination of respirator applicability and filter selection must be made by an on-site safety specialist or industrial hygienist.

Because faceshields and welding shields can be raised from the normal position, ANSI Z87.1-2003 states that safety glasses must be used in conjunction with these respirators.

Valve Model	CFM Required	CFM Delivered	Pressure Range (PSIG)	Max. # of Hoses/Length*
Cool-air	12-25	6-15	70-105	4 hoses/100'
Temp-air	12-25	6-15	85-110	4 hoses/100'***

\*Indicates maximum number of hoses and maximum total length.

\*\*Temp-air valve is approved for use with breather hose only.

## Hardhat Systems for Supplied Air Cool-air and Temp-air Systems

Use the chart to the right to determine which parts are required in tailoring the hardhat air system to your specifications.



Part No.	Description
<b>1. Helmet Assembly</b> (choose one from the following)	
14-0099-35H	9000 HWR Helmet with Hardhat
14-0099-35HSW	9000 HWR Helmet with Hardhat and SideWindows
<b>2. Breathing Tube, Supplied Air Control Air Valve</b>	
18-0099-63	Breathing Tube
(plus, choose one from the following)	
18-0099-47	Cool-air Valve (CA)
18-0099-48	Temp-air Valve (TA)
<b>3. Supplied Air Hoses</b> (choose one from the following)	
18-0099-40	25' Breather Hose, with Couplings
18-0099-41	50' Breather Hose, with Couplings
18-0099-42	100' Breather Hose, with Couplings
18-0099-43*	25' NyCoil™ Hose, with Couplings
18-0099-44*	50' NyCoil™ Hose, with Couplings
18-0099-45*	100' NyCoil™ Hose, with Couplings
<b>4. Belt</b>	
18-0099-16	Comfort Belt
<b>5. Appropriate 3M™ Speedglas™ Auto-Darkening Filter</b> (choose one of the following)	
04-0000-15	9002D User Selectable Shades 10 and 11
04-0000-10X	9000XF Shade 10
04-0000-11X	9000XF Shade 11
04-0000-12X	9000XF Shade 12
04-0000-31	9002V Filter
04-0000-21	9002X Filter

\*NyCoil™ hoses can only be used with Cool-Air valve Supplied Air (SA) Systems.