



 **Speedglas™**
Welding Safety

NEW IN 2022

**3M™ Speedglas™
Flip-Up
Welding Helmet
G5-01TW**

**Upgrade
Your
Protection**

3M Science. Applied to life.™

Introducing the NEW 3M™ Speedglas™ Welding Helmet G5-01 TW

The 3M™ Speedglas™ Welding Helmet G5-01 TW has just launched in Australia and New Zealand.

Whether you are an existing Speedglas™ powered air user or never experienced Speedglas powered air technology before, the new Speedglas G5-01 TW will be of interest to you.

The Speedglas G5-01 TW is a feature-packed, upgraded version of the industry leading 3M™ Speedglas™ 9100 FX Air, with a stack of new technology, launched at the same price point.



**Climate Control
under the hood**

**50% longer
Adflo battery run time[^]**

[^] Compared to the 3M™ Speedglas™ 9100 FX Air Adflo Powered Air Purifying Respirator (Part No. 547726)
* For extended non-welding work, the welding visor can be removed to reduce the weight by over 35%.



Larger views with superior optical quality[^]

Reduce weight by over 35%*

15% larger grinding visor views[^]

Optional task light and configurable protection

Improved ergonomics, comfort, and balance[^]

Are you a current 3M™ Speedglas™ Adflo™ PAPR user?

Upgrade just your helmet!



As an existing 3M™ Adflo™ PAPR customer, the most economical way to upgrade to the new 3M™ Speedglas™ G5-01 TW Welding Helmet is by simply upgrading your head-top.

The Upgrade kit comes with the new Speedglas™ Flip-Up Welding Helmet G5-01 complete with the Speedglas G5-01 TW welding lens.

Simply attach the helmet to your existing Adflo PAPR and you can benefit from all the features of the new Speedglas G5-01 TW welding helmet at a fraction of the price, including:

Climate Control,
Larger Welding Lens,
Larger Grinding Visor,
more Streamlined Profile,
TrueView in the light state,
Smoother Dark-Light Transition,
Bluetooth Connectivity
with the option of
Configurable Extra Protection
and a **Task Light.**

Part No: 61120

**3M™ Speedglas™
G5-01 TW Welding
Helmet Upgrade Kit**

**Promotions, more info,
and where to buy.**

Being a new and game changing product there are literally hundreds of local welding distributors currently running G5-01 TW upgrade promotions.

So now is a great time to upgrade!

To locate your closest distributor, learn about payment options, hear about current promotions or track down more information, please contact us at www.apexweldingsafety.com.au.

**Are you
looking to
upgrade
to PAPR
protection?**

**The best just
got better!**

Part No: 617820

**3M™ Speedglas™
G5-01 TW with the Adflo
Powered Air Purifying
Respirator**



Did you know?

'Welding helmets with integrated powered air purifying respirators (PAPR) are the most widely used form of respiratory protection amongst welders in Australia and New Zealand¹ and are mandatory within many businesses.

They have a Required Minimum Protection Factor (RMPF) of 50, meaning that they supply breathing air a minimum 50 times cleaner than the welder would otherwise be breathing unprotected and can also protect the welders' eyes and face from radiation and high velocity particles.

Technical Specifications



Specification	3M™ Speedglas™ G5-01TW Welding Helmet Powered Air: 61 78 20
MMAW (electrode)	●
MIG/MAG	●
TIG (>10A)	●
TIG (1A-10A)	●
Plasma (welding and cutting)	●
Hidden Arc	●
Tack welding	●
Grinding (clear visor)	170 × 104mm
Viewing area (welding lens)	73 × 109 mm
Battery lifetime	1 500 hours
Classification ¹⁾	1 / 1 / 1 / 1 (with True-View)
Dark state	Shades 5, 8-13
Light state	Shade 3
UV Protection	Shade 13 (permanent)
Switching time, light-dark	0.1 ms (+23° C)
Delay (switching time, dark-light)	50-1300 ms
Two step recovery	Yes (shade 5)
Memory modes	Yes - 4 (via mobile app)
Climate flow control	Yes
Bluetooth connectivity	Yes
Optional task light	Yes
Standards Compliance Respiratory protection Eye protection Face protection Head protection Optional hearing protection	AS/NZS1716 AS/NZS1338.1 AS/NZS1337.1
Required Minimum Protection Factor (RMPF) ²⁾ Powered Air Respiratory Protection - Adflo	50

● Ideally suited for given application

1) Auto-darkening welding lenses have a classification system in European Standard EN379: optical class / diffusion of light / variation on luminous transmittance / angle dependence. Classification range from 1 to 3, with 1 being the best.

2) For mechanically and thermally generated particles

Welding fume is serious. Action is required.

In March 2017, the International Agency for Research on Cancer (IARC) reclassified welding fume as 'carcinogenic to humans'.

This simply confirmed what was already known within the welding industry; that welding fume is extremely bad for health and workplaces must protect their workers.

'Welders present, on average, a 43% increased risk of lung cancer when compared with those who have never welded or been exposed to welding fume'².

An unprotected welder operating within the Australian and New Zealand exposure standards for general welding fume ($5\text{mg}/\text{m}^3$) could still inhale up to 11 grams of a known carcinogen every year.

However, it is important to note that while the risk is serious, keeping yourself safe can be straightforward.

A Speedglas Welding Helmet with an Adflo Powered Air Purifying Respirator (PAPR) can provide air at least 50 times cleaner than the air inhaled by an unprotected welder (RMPF = 50).

When compared to disposable and reusable half mask respiratory protection (RMPF = 10), PAPRs provide superior respiratory protection and comfort and do not require fit testing or a complete clean shaven condition.



For more information on welding fume and respiratory protection, download the **2022 Practical Guide to Welding Fume Control** here!

About AWS

AWS was established in 1994 and has played a key role in the welding industry ever since.

As an advocate for welders' safety in Australia and New Zealand, AWS has published numerous Welding Safety White Papers, Welding Industry Reports, and Welding Fume Control Frameworks. AWS is a company that specialises in welding safety equipment, and it is our goal to raise awareness on the important issues that welders face.

As the sole agent for the 3M™ Speedglas™ range of welding helmets with integrated respiratory protection, AWS are extremely well placed to help businesses understand the different types of product controls that can be introduced into the workplace to better protect welders.

For more information on welding PPE, please contact AWS.

www.apexweldingsafety.com.au/welding-safety-white-papers



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[facebook.com/awsptyltd](https://www.facebook.com/awsptyltd)

[youtube.com/awsspeedglas](https://www.youtube.com/awsspeedglas)

References

1. 2020 Welding Fume and Respiratory Protection Survey, AWS
2. 2019 Honaryar MK, Lunn RM, Luce D, et al. Occup Environ Med

