TECMEN TM820

The Slimline Welding Helmet for Confined Spaces

Crystal-clear vision in a compact, low-profile design – ideal for welding in tight or hard-to-reach areas. This helmet is built for daily tasks, providing protection without added weight, and integrates seamlessly with the FreFlow blower unit to keep welders breathing safely and easily.

without compromising protection. A cost-effective choice for welders who need trusted performance and durability, the TM820 delivers clarity, comfort, and ease of use—making it the go-to helmet for everyday welding tasks. رق TECMEN FreFlow

Options:







Why Choose

the TM820?

Designed for welders who need

TM820 offers crystal-clear vision

lightweight build makes it ideal for confined spaces, overhead work, and all-day use, reducing neck strain

in a compact, slimline design. Its

a no-fuss, reliable helmet, the

TM820

Lightweight, Best optical class 1/1/1/1 with true colour



Intelligent arc sensor technology

Not affected by natural/surrounding light, stable outdoor performance.

Large 95x85mm viewing area

Aluminium heat shield

Reflects heat away from the welder and lens, for continuous high amp welding.

Superior lens technology

Best optical class 1/1/1/1 to bring true colour and clear vision to the welder.
1 Optical class: No distortion.
1 Light diff vision: No double vision.
1 Homogeneity: No shade variation.
1 Angle dependence: Shade remains consistent when looking at any angle.



External grinding control

Allows quick switching from welding to grinding and back without lifting the welding hood or removing gloves.

Multi point adjustable headgear

Well balanced design, maximum comfort level.

High impact resistance

Australian and New Zealand Standard AS/NZS 1337.1 compliant.

2 year auto-darkening lens warranty

Solar powered with battery backup. Automatic on/off, so ready to weld at any time. Low amperage TIG rated down to 2 amps.

Weld shade 9 - 13 Cutting shade 5 - 8 Sensitivity adjustment Lo - Hi Delay adjustment Long - Short





True colour lens

Bringing realistic colour to the welder's world. No more green environment with weak colour contrasts.

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TM820 FreFlow PAPR

All the great benefits with the powered air-purifying respirator.



Adjustable Air Outlet to distribute the airflow closer or further from the face.

Adjustable airflow 170 lpm or 210 lpm airflow rates to provide the user better comfort, and cooling in hot or heavy workload conditions.



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TM820 Specifications, Parts & Accessories



TM820 Welding Helmet Specifications

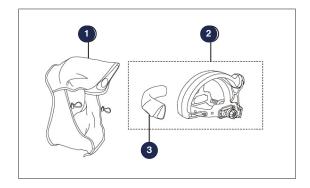
Optical Class	1/1/1/1 highest optical class with high definition		
	lens technology (EN379)		
Viewing Area	95 x 85mm		
Lens Shade	Variable Shade 5-8 / 9-13		
Light State	DIN 3.5		
Shade Control	Internal		
Sensors	4		
On/Off	Automatic On / Off		
Power Supply	Solar cell + Battery replaceable, 1*CR2450 lithium battery		
Switch Time	1/25,000 s. from Light to Dark		
Sensitivity Control	Low~High, by infinite dial knob		
Delay Time	0.1~1.0s by infinite dial knob		
(Dark to Light)			
Low TIG Amps Rated	2 amps		
Grind Mode	Yes, External grinding button		
Helmet Weight	Standard Helmet 645g, Respiratory version 880g		
Magnification Lens	Lens holder, to fit standard 108x51 magnification lenses		
Operating Temperature	-10°C to +55°C		
Storing Temperature	-20°C to +70°C		
Application Range	Stick Welding (DC&AC). TIG(DC,DC Pulse);TIG AC(Pulse),Excellent low amperage TIG response. MIG/MAG; MIG/MAG Pulse. Plasma Cutting/ Welding; Grinding; Oxyacetylene Welding/Cutting;		
Warranty	Auto darkening lens: 2 years		
Standards	Helmet: AS/NZS1337.1:2010 High impact rated Lens: AS/NZS1338, EN379		
FreFlow connection	Bayonet connect hose		

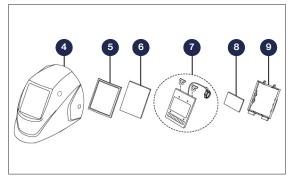


Item	Qty	Code
1 Face seal	1	WSHWR82016
2 Headgear with air connection	1	WSHWR82015
2 Headgear (non-air)	1	WSHWR82014
3 Sweatbands	1	WSHWR82006
3 Sweatband for Freflow	1	WSHWR82005
4 Helmet Shell	1	WSHWR82017
4 Helmet Shell for FreFlow	1	WSHWR82018
5 Rubber frame	1	WSHWR82007
6 Outside cover lens	1	WSHWR82003
7 Auto darkening filter(ADF820)	1	WSHWR82012
8 Inside cover lens	1	WSHWR82004
9 Lens Holder	1	WSHWR82008

Optional

Item	Qty	Code
Front Leather Throat Protection	1	WSHWR95040
Rear Extended Hood able to fit to most Welding Helmets	1	WSLCHX0200
Tecmen TM820 Helmet Adapter for Hardhat	1	WSHWR82050







10 Front Leather Throat Protection

- Added leather throat protection for TECMEN welding helmets.
- Protects your neck and upper chest/shoulders from molten metal, sparks and flames.

12 Helmet Adapter for Hardhat

 Adapter to attach your hardhat to the Tecmen TM820 welding helmet. Designed to fits most hardhats.

