



TECMEN



MMA



MIG/MAG



TIG



FLUX-CORED



PLASMA



GRIND



FreFlow™ V3

Respiratory Welding Helmet

Filter efficiency
≥ 99.97%



Easy
Operation



Hard Hat
Adapter



Curved 3D
Feature



High-impact
Resistance



Wide
Application



Patented
Headgear



Applicable
with PAPR



Side
Lens



Product Features

Flip-up design

Easy lift up for grinding function, suiting welding / cutting / grinding mode.

Large view for grinding

20 x 12 cm area, large and curved transparent grinding anti-fog lens.

Rechargeable Li-ion battery

Rechargeable battery for longer lifetime.
Fast-charging option makes charging only 1 hour.



Respiratory protection

Filter efficiency $\geq 99.97\%$, preventing inhalation of dust, pollutants, fine particles as well as other contaminants.

Intelligent air supply

Respirator will self-adjust the flow rate according to the blockage of the filter automatically.

Real-time display indicator

Filter status / airflow rate / battery capacity indicator, real-time monitoring and displaying.

Auto-alarm system

Flashing indicator, beeping sound, together with vibrating blower to ensure safety.

Respirator Specifications

Airflow Rate	Low speed: 170+lpm (6+cfm) High speed: 210+lpm (7.4+cfm)
Battery Type	Rechargeable Li-ion Battery
Battery Duration	9 hours (Standard battery, 170+lpm) 5 - 6 hours (Standard battery, 210+lpm) 15 hours (Extended battery, 170+lpm) 9 hours (Extended battery, 210+lpm)
Battery Charge Time	1 hours (Standard battery) 2 hours (Extended battery)
Battery Life	≥ 500 charges
Filter Efficiency	$\geq 99.97\%$
Alarms	Visible, Audible and Vibrate
Operating Temp.	-5 °C ~ +55 °C (23 °F ~ 131 °F)
Storing Temp.	-10 °C ~ +55 °C (14 °F ~ 131 °F)
Operating Relative Humidity	< 90%
Storage Relative Humidity	< 85%
Weight (Blower Unit+Battery)	1020 g
Respirator Approval	EN 12941 TH3 P R SL NIOSH 42 CFR Part 84 AS/NZS 1716

ADF Specifications

Optical Class	1 / 1 / 1 / 1
Viewing Area	107 x 75 mm (4.21" x 2.95")
Cartridge Size	156 x 123 x 33 mm (6.14" x 4.84" x 1.30")
Arc Sensor	4
Light State	DIN 4
Grind State	DIN 4
Cutting Shade	Shade No. from 5 to 8
Welding Shade	Shade No. from 9 to 13
Shade Control	Internal, Digital Display Control
Power On / Off	Automatic On / Off
Sensitivity Control	Low ~ High, Digital Display Control
UV / IR Protection	Up to Shade DIN16 at all times
Power Supply	Solar cell. Battery replaceable, 2 x CR2450 lithium battery
Switching Time	1/25,000 s. from Light to Dark
Grinding	Yes
Delay (Dark to Light)	0.1 ~ 1.0 s, Digital Display Control
Low Amperage TIG Rated	≥ 2 amps (DC); ≥ 2 amps (AC)
Operating Temp.	-10 °C ~ +55 °C (14 °F ~ 131 °F)
Storing Temp.	-20 °C ~ +70 °C (-4 °F ~ 158 °F)
Helmet Material	High Impact Resistance Nylon
Approved	



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