



TECMEN



FreFlow™ V3 TM-S1

TM-S1 Face Shield with Powered Air Purifying Respirator

Filter efficiency
>99.97%

FACE PROTECTION FROM SPARKS AND SPLASH

Optical grade PC lens bring high-resolution clear vision. High intensity lens provide protection against UV/IR, particle spatter, liquid spatter, metal melt, hot solid spatter to secure safety. Anti-scratch option available. Used with FreFlow V3 respiratory system, the overall filtration efficiency is as high as 99.97%, providing users with comprehensive protection for respiratory, eye and face.



Curved 3D Feature



Anti-fog Lens



High-impact Resistance



Anti-scratch Lens



Easy Operation



Wide Application

FreFlow™ POWERED AIR-PURIFYING RESPIRATOR

Gas Filter

To prevent inhalation of organic, inorganic, acidic, ammonia and other harmful gases (A1B1E1K1).

Pre-filter

Pre-filtering large diameter particles, to extend the lifetime of P3 filter

Particle Filter (P3 Filter)

To prevent inhalation of dust, pollutants, fine particles as well as other contaminants.

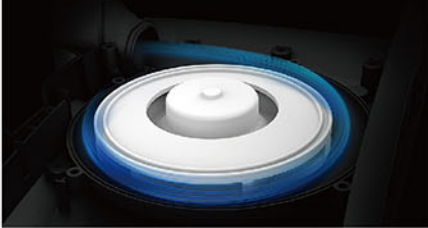
Spark Screen

To prevent spark flyings.



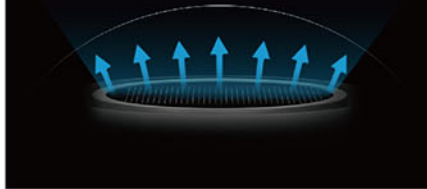
High Quality Motor

High-quality brushless motor, strong air volume, low power consumption, ultra-quiet running and up to 3 times longer motors life.



Intelligent Air Supply

Respirator motor automatically adjusts power and air-flow depending on the degree of blockage of the filter box. The intelligent control, provides a stable and clean air flow supply, keeping the welder comfortable at all times.



Real-time Display Indicator

When the filter is blocked beyond sufficient air-supply or the respirator is low, a warning lamp will flicker automatically and the respirator will sound and vibrate.



Filtering Component

Selectively choose different filter as needed, adaptable system that helps cost-saving.



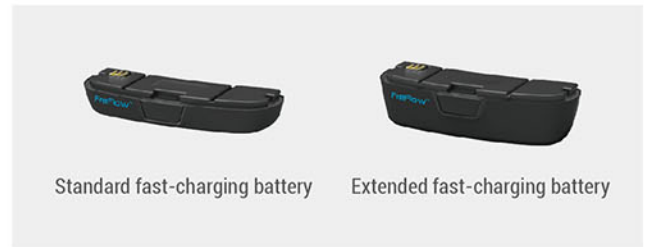
Particle filter (P3 Filter)

Gas filter

Odor filter

Two Battery Type Options

Light weight Li-ion battery, reduce the weight of PAPR system. Fast-charging design saves time and improves efficiency.



Standard fast-charging battery

Extended fast-charging battery

PRODUCT PARAMETERS

Respirator Specification

Airflow Rate	Low speed: 170+lpm (6+cfm) High speed: 210+lpm (7.4+cfm)	Filter Efficiency	> 99.97%
Battery Type	Rechargeable Li-ion battery	Alarms	Visible, audible and vibrate
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)	Operating Temp.	-5 °C ~ +55 °C (23 °F ~ 131 °F)
Battery Charge Time	1 hour (Standard battery) 2 hours (Extended battery)	Storing Temp.	-10 °C ~ +55 °C (14 °F ~ 131 °F)
Battery Life	≥ 500 charges	Operating Relative Humidity	< 90%
		Storage Relative Humidity	< 85%
		Weight (Blower Unit+Battery)	1020 g
		Respirator Approval	EN 12941 TH3 P R SL, AS/NZS 1716
			CE UK UK EAC

* This PAPR product is not suitable for the applications which request Intrinsic safety (IS).

Face Shield Specification

Shield Feature	Three-dimensional curved design to meet ergonomics	Application Industry	Surface processing in heavy industry, pharmacy, agriculture, laboratory
Dimension of PC Lens	212 x 220 x 1.8 mm (height x width x thickness)	Shield Approval	EN 166, CSA Z94.3, ANSI Z87.1, AS/NZS 1337.1
Weight of PC Lens	130 g		CE COLTS [®] ANSI AS/NZS CSA Z94.3 Z87.1
Shade Number of PC Lens	Transparent		

TECMEN ELECTRONICS CO., LTD

+86 25 8555 1955 +86 25 8555 1958

tecmen@tecmen.cn +86 25 8555 1933

No.8 Huyue East Road, Longchi Street, Luhe District, Nanjing, 211599 JIANGSU, CHINA

For more details, please refer to WWW.TECMEN.COM