



TECMEN



Filter efficiency
> 99.997%

G-SERIES

HARD HAT FACE SHIELD

HEAD PROTECTION HIGH IMPACT RESISTANCE

TECMEN powered air purifying face shield has a compact shape and a balanced center of gravity. Used with FreFlow V1 respiratory system, the overall filtration efficiency is as high as 99.997%, it is convenient, comfortable and easy to adjust, providing users with comprehensive protection for respiratory, eye and face, head, and hearing (need to use together with noise-reduction earmuffs).



High strength



Impact resistance



Anti-splash



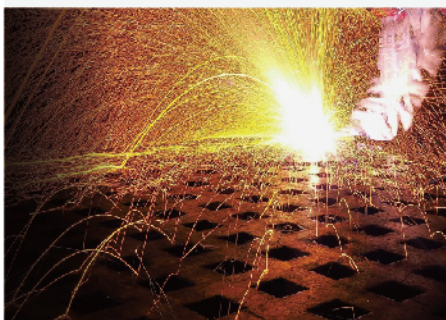
High stability



ADVANTAGES

Comprehensive High-level Protection

The product has excellent compatibility, can block particle splash/impact, respiratory pollutants, harmful noise, no need for adaptability inspection, convenient and comfortable, suitable for long-time operation and wear.



Impact-resistant Face Shield

Passed EN166 BT test, super large hard full-view face shield has good impact resistance, no distortion of sight, high light transmittance, and good wear resistance.



Comfortable Adjustable Headgear

Top of headgear is adjustable in 6 gears, and the rear is infinitely adjustable to meet the needs of different head circumferences.



Anti-collision Upgrade, Stable Protection

TECMEN G series face shields are equipped with head protection to protect wearer's head from injury. The blended engineering plastics with both high rigidity and toughness are used as raw materials for production of hard hats, which meet special tests in EU EN397:2012 "Technical Specifications for Industrial hard hats" standard. Provides comprehensive protection to wearer by anti-splash metal melt, anti-puncture sprint, and not easy to deform.

Different grades to meet a variety of head protection requirements.



G10 Bump Cap

EN812:2012
EN166:2001

G10 bump cap face shield meets EN812 standard, providing comprehensive breathing, head, eye and face protection for users.



G20-V Hard Hat

EN397:2012
EN166:2001

G20-V hard hat face shield meets EN397 hard hat standard, integrated one-piece design, protecting the user from mechanical impact and falling objects.



DETAILS DISPLAY INGENUITY QUALITY

Multi-point buffer to disperse vibration



Sturdy and durable material



No melting or deformation in high temperature environment up to 135°C



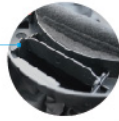
Strong and high rigidity, anti-bending deformation



ADVANTAGES

Built-in Wind Direction Adjustment

Air flow direction can be changed with built-in wind direction adjuster for optimum comfort.



Flip-up design

Free lift, fixed at different angles. Easily adjust various operating angles.



Skin-friendly Sealing Head Covering

The fabric has good water resistance and flame retardancy, and good sealing performance, ensuring that a micro-positive pressure state is formed in face shield.



Noise-reduction Earmuffs

Used with physical or electronic noise-reduction earmuffs, to achieve high-level hearing protection, earmuffs are easy to disassemble and maintain.

Bump Cap/hard Hat

Bump cap and hard hat can be selected to achieve comprehensive safety protection.

High-level Respiratory Protection

Passes EN12941 TH2 level respiratory protection, the filtration efficiency is as high as 99.997%.

FreFlow™ POWERED AIR-PURIFYING RESPIRATOR FILTER SCHEMATIC

Constant air supply design delivers an always constant airflow even if battery is low or filter is clogged, lightweight, portable, and easy-to-use, providing excellent respiratory protection.

A Durable front cover:

Protect blower unit from being damaged by high temperature and high-speed impact objects.

B Spark screen:

Block metal splashes from igniting other filter components.

C Pre-filter:

Block large particles and prolong service life of particle filter.

D Particle filter:

High-efficiency particle filter, filtration efficiency up to 99.997%.

E Gas filter:

Optional A1B1E1K1 or A2 for protection against organic, inorganic and acid gas vapors, gas filter sold separately.

F Odor filter:

Eliminates unpleasant odors (not required if a gas filter is installed), odor filter sold separately.

G Fast rechargeable Lithium battery:

Standard battery can be fully charged within 1 hour, battery duration is 9 hours with 170L/min airflow rate. Optional extended battery can be fully charged within 2 hours, battery duration is 15 hours (170L/min airflow rate).

H High quality brushless motor:

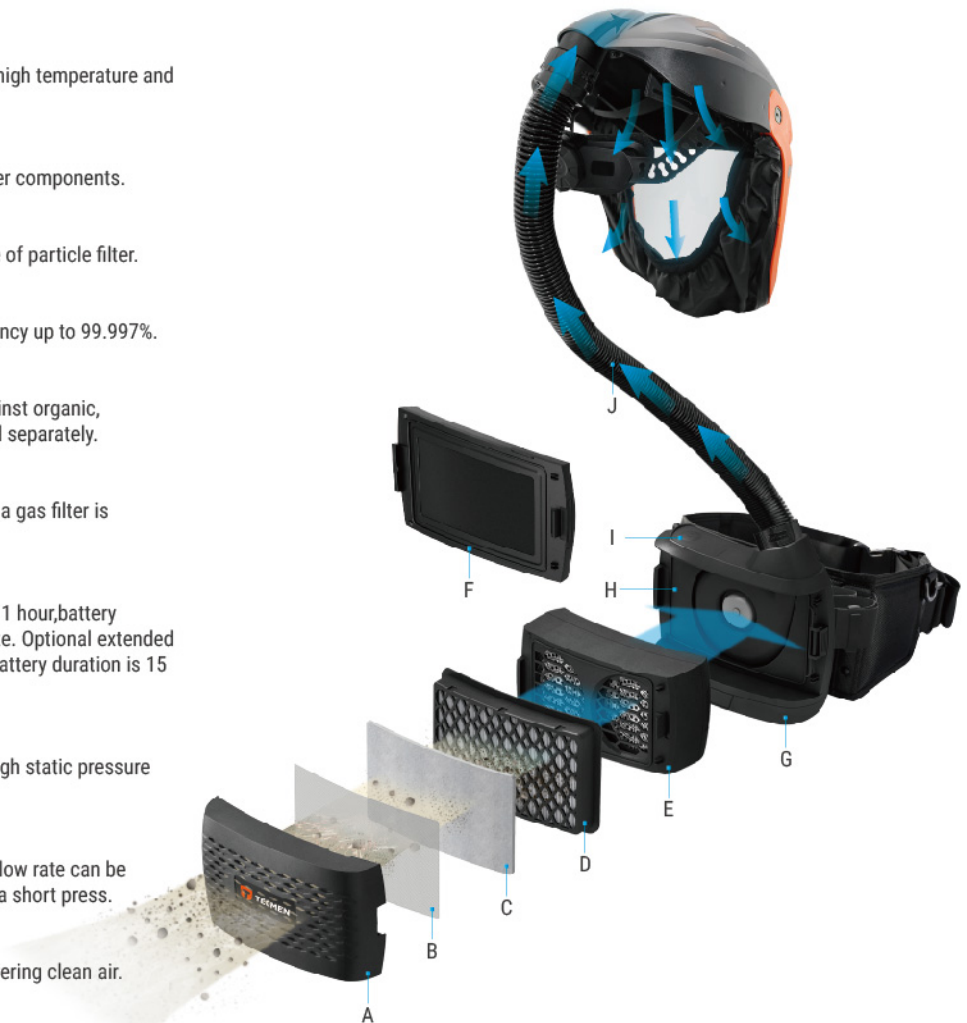
Low power consumption, long service life, high static pressure and low noise.

I Optional airflow rates:

For hot and humid working environment, airflow rate can be increased from 170L/min to 210L/min after a short press.

J Hose:

Connect respirator and welding helmet, delivering clean air.



PRODUCT PARAMETERS

Face Shield Specifications



Model	G10	G20-V
Weight	660g	792g
Head protection level	EN812:2012	EN397:2012
Suitable working environment	General bump cap head protection requirements	Hard hat standard head protection requirements
Eye and face standard	EN166:2001	EN166:2001

Respirator Specifications



Model	FreFlow V1
Airflow Rate	Manufacturer's minimum design flow rate: 165+lpm (5.8+cfm) Standard air flow: 170+lpm (6+cfm) Fast speed air flow: 210+lpm (7.4+cfm)
Fast-charging Battery	Battery type: rechargeable Li-ion battery Standard battery duration: 170+lpm - 9 hours; 210+lpm - 6 hours Extended battery duration: 170+lpm - 15 hours; 210+lpm - 9 hours Standard battery charge time: 1 hour Extended battery charge time: 2 hour Battery life: ≥ 550 charges
Filter	Filter efficiency: >99.997% Alarms: Visible, audible and vibrate
Temperature	Operating temperature: -5°C to 55°C (23°F to 131°F) Storage temperature: -10°C to 55°C (14°F to 131°F)
Relative Humidity (R.H.)	Operating R.H.: < 90% Storage R.H.: < 85%
Weight	1020g (Blower unit + fast-charging standard battery)
Respirator Approval	EN 12941 P R SL, AS/NZS 1716 CE ㅁ ㅁ ㅁ AS/NZS ERI

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

APPLICATIONS



Metallurgy / Grinding



Chemical Industry



Medicine



Laboratory / Research Institute



Nuclear Power



Public Health



Rail Transit



Automobile Manufacturing



Shipbuilding



Hazardous Chemical Production



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