

TECMEN H Series

Full Hood Protection with Clean, Cool Air

For industries where dust, chemicals, and airborne hazards are a constant risk, standard respirators don't offer enough protection. The FreFlow H-Series is designed for total head and respiratory safety, combining a lightweight, full-coverage hood with Powered Air-Purifying Respirator (PAPR) technology. With a continuous flow of filtered, cool air, workers stay protected, comfortable, and compliant—no matter the environment.

Why Choose the FreFlow H2 or H3?

For workers facing high levels of dust, chemicals, or airborne contaminants, the FreFlow H-Series provides total head and respiratory protection. Unlike half-masks or tight-fitting respirators, these lightweight hoods completely cover the head, neck, and shoulders, preventing exposure in hazardous work environments. The positive-pressure PAPR system ensures a continuous flow of cool, filtered air, reducing breathing resistance and eliminating heat buildup. Ideal for painting, polishing, pharmaceuticals, industrial maintenance, or chemical handling, the FreFlow H-Series delivers comfort, compliance, and confidence on the job.



Options:



**H2 Spray Hood
with FreFlow**
Code: WSHWRH2001



**H2 Spray Hood
for FreFlow**
Code: WSHWRH2000



**H3 Chemical Hood
with FreFlow**
Code: WSHWRH3001



**H3 Chemical Hood
for FreFlow**
Code: WSHWRH3000

Tecmen H2 Respiratory Spray Hood

Hood material

Lightweight, breathable, anti-static for dust and liquid proof with neck and shoulder protection. Seams are heat melted with adhesive tape after sewing. Barrier membrane with composite fabric 87g/cm².

Extremely comfortable

Positive-pressure air supply, stably convey filtered clean air to head and face of wearer, micro-positive pressure protecting wearer from respiratory resistance, avoiding stuffiness and facilitating respiration.

Anti-fog, more reliable

Clear vision without fog, ensuring smooth operation and testing.

Rechargeable Li-ion battery

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

Respiratory protection

Connects to the Freflow for highest level of respirator protection. Filter efficiency > 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.

H2 Specifications

Model	H2
Code	WSHWRH2000
Product Description	Dust-proof hood with head and neck protection
Weight Helmet only	150 g
Approval	EN 12941 TH3 P R SL
Applications	Dust, mist working conditions with low chemical-resistant. Painting, surface treatment, Polishing. Pharmaceutical, Laboratory. Food processing.
Airflow Rate	Low speed: 170+ipm (6+cfm) High speed: 210+ipm (7.4+cfm)
Freflow connection	Bayonet connect hose

H2 Optional Extras for Spray Painting



Peel-Off Face Shield

- Cover fits over the clear shield, designed to protect the shield from scratching or overspray of paint and chemicals.
- Self-adhesive visor covers can be easily applied, and removed.
- 10 pack (1 ordered = 10 peel-off covers).

Code: WSHWRG1003

FreFlow White Blower Unit Cover

- Fabric cover to capture and protect the Tecmen Freflow blower unit from paint/mist overspray.
- Clear window cover to see controls and adjust unit.

Code: WSHWR95028



Tecmen H3 Respiratory Chemical Hood

H3 hood

Lightweight, dust proof, anti-static, and liquid chemical proof material with neck and shoulder front and back protection.

Extremely comfortable

Positive-pressure air supply, stably convey filtered clean air to head and face of wearer, micro-positive pressure protecting wearer from respiratory resistance, avoiding stuffiness and facilitating respiration.

Anti-fog, more reliable

Clear vision without fog, ensuring smooth operation and testing.

Ultrasonic heat-sealing technology for seaming

Seamed with ultrasonic welding and heat-sealing technology, with high intensity feature and longer lifetime.

Rechargeable Li-ion battery

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

Respiratory protection

Connects to the Tecmen Freflow unit for highest level of respirator protection (ASNZS1716). Designed to be use with both particle and gas filters to cover dust particles and chemical vapours when needed.

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.

H3 Specifications

Model	H3
Code	WSHWRH3000
Product Description	Chemical-proof hood
Weight Helmet only	200 g
Approval	EN 12941 PR SL, AS/NZS 1716
Applications	Dust and mist working conditions with liquid chemical. Petrochemical and processing chemical industries. Pharmaceutical, Laboratory. Hazardous, and waste treatment environments.
Airflow Rate	Low speed: 170+ipm (6+cfm) High speed: 210+ipm (7.4+cfm)
Freflow connection	Bayonet connect hose

H3 Optional Chemical Vapour & Gas Filter

Freflow Gas filter ABEK-1

WSHWR95025

- Filter type A** = Certain organic vapours such as cyclohexane (boiling point above 65°C) from solvents such as those in paints and thinners.
- Filter type B** = Acid gases such as chlorine, hydrogen sulfide (sulphide) and sulfur dioxide.
- Filter type E** = Vapours from sulfur dioxide.
- Filter type K** = ammonia gas.

In conjunction with a Pre-Filter & Particle filter a gas filter can be connected to the Tecmen Freflow unit, if needing protection against chemical vapours & gases class1 (ABEK-1).

