

QUANTUM HARD HAT

Powered Air Purifying Respirator with Hard Hat

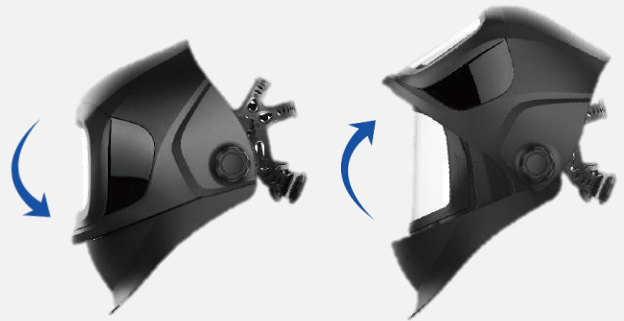
COMPREHENSIVE PROTECTION

The Quantum Air PAPR (Powered Air Purifying Respirator) with hard hat integrated U1 hard hat provides users with comprehensive protection for head, eyes, face, respiratory, and hearing (requires noise-reduction earmuffs).



High Impact Resistance.

Quantum helmet combined with U1 hard hat, made from high strength ABS material, protecting the head from falling objects.



High Level Efficiency.

The innovative flip-up design of the Quantum helmet can quickly switch between welding, grinding and cutting. Large field of vision for improved safety and work efficiency.



Respirator Accessories

Back Pack Harness

Reduces lower back strain by positioning the PAPR higher on the back, also freeing space around the waist and giving more support



Gas Filter A1/A2

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



Carbon Odour Pre-filter

Used with the P3 filter to help remove odours and smells inside the head top



Specifications

Helmet Specifications



| | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Optical Class | 1/1/1/1 |
| Viewing Area | 107x75 mm (4.21 "x2.95") |
| Standards | 156x123x33mm(6.4"x4.84"x1.30") |
| Light State | DIN 4 |
| Dark State | Variable Shade 5 ~ 8 / 9 ~ 13 |
| Shade Control | Digital Display Control, Variable Shade |
| Power On/Off | Fully Automatic |
| Sensitivity Control | Variable 0 to 9 |
| UV/IR Protection | Up to Shade DIN 16 at all times |
| Power Supply | Solar cell, 1 x CR2450 lithium battery |
| Switching Time | 1 / 25,000 s. from Light to Dark |
| Dark to Light | Variable 0 to 9 (0 .05 to 1.0 sec.) |
| Low Amp TIG Rated | 2: 2 amps (DC); 2: 2 amps (AC) |
| Operating Temp | -10°C ~ +55°C (14°F ~ 131 °F) |
| Low Amp Tig Rated | 2 amps |
| Grinding | Yes |
| Low Battery Indicator | Digital Display |
| Helmet Material | High Impact Resistance Nylon |
| Operating Temp | -20°C ~ +55°C (- 4°F ~ 158°F) |
| Storing Temp | -20°C ~ +70°C (- 4°F ~ 158°F) |
| Approval | Helmet: EN175:B, EN166 B Auto Darkening Filter: EN397 Outside Cover Lens: EN166 BT Inside Cover Lens: EN166 BT |
| Application Range | Stick Welding (SMAW); TIG DC&AC; TIG Pulse DC; TIG Pulse AC; MIG/MAG/CO2; MIG/MAG Pulse; Plasma Arc Cutting (PAC); Plasma Arc Welding (PAW); Air Carbon Arc Cutting (CAC-A); Oxyfuel Gas Welding (OFW); Oxygen Cutting (OC); Grinding |

PAPR Specifications



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|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Airflow Rate | Manufacture's Minimum Design FR: 165+lpn (5.8+cfm) Low Speed: 170+lpn (6+cfm) High Speed: 210+lpn (7.4+cfm) |
| Fast Charging | Battery type: rechargeable Li-ion battery |
| Standard Battery Duration | 9h – low speed (170+lpn) 5-6h – high speed (210+lpn) Battery charge: 1 hour Battery life 500 charge cycles |
| Filter | Filter Efficiency: >99.97% Alarms: LED, audio, vibration |
| Temperature | Operating Temp: -5°C to 55°C (23°F to 131°F) Storage Temp: -10°C to 55°C (14 °F to 131 °F) |
| Relative Humidity | Operating RH: <90% Storage RH: <85% |
| Weight | 1020g (Blower unit+ fast-charging standard battery) |
| Approval | EN 12941 PR SL, AS/NZS 1716 |
| <i>*This PAPR product is not suitable for the applications which requires Intrinsic safety (IS).</i> | |

Hard Hat Specifications



| | |
|--------------------|--------------------------------|
| Weight | 387g |
| Testing standard | GB2811-2019 EN397-2012 |
| Hard hat size | 258•217• 153mm |
| Head circumference | 51-64cm |
| Material | High strength ABS raw material |
| Chin Strap | High Strength Nylon |
| Colours | White, Blue, Yellow, Red. |



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