

BRAVEX®

RANGER

Elevate your welding safety and maximize performance with the Ranger



The **Ranger** Welding Helmet and PAPR Unit - shielding you from every angle, empowering you to **weld with confidence and clarity**.

RANGER DESIGN AND FEATURES



RANGER PAPR FEATURES



FEATURES AND BENEFITS

- User adjustable air flow 170/210 L/min – 2 stages
- Li Ion battery pack (up to 13 hours duration @ 170L/min)
- Fast charging Lithium-Ion battery (2 hours)
- P3 filter and pre-filter
- Intelligent USB-C type charger (EU & UK pins)
- Audio and Visual 'vibration' blocked filter and low battery alarms
- LED air flow indicator
- Supplied with 'comfort pad' and shoulder harness

High-performance, easy adjustment

Can be mated with AF-600S auto-darkening filter, where shade number, delay and sensitivity are all infinitely adjustable. You can also choose AF-110L ADF for expanded vision, tack welding, and dark modes. Includes flip-up grinding visor.



Ranger Helmet
with PAPR



Available with
Hard Hat (white)
standard & air-fed

Respirator Specifications

Airflow Rate	Manufacturer's minimum design flow rate: 165+lpm (5.8+cfm) Low speed: 170+lpm (6+cfm) High speed: 210+lpm (7.4+cfm)
Fast-charging Standard Battery	Battery duration: 170+lpm - 11-13 hours; 210+lpm - 7-9 hours Battery charge time: 2.5 hours Battery life: ≥ 500 charges
Filter	Filter efficiency: > 99. 997% Alarms: Visible, audible and vibration
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	950g (Blower unit + fast-charging standard battery)
Respirator Approval	EN 12941 P R SL, AS/NZS 1716



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

Optional Filter Specifications



Model	AF-600S	AF-110L	Shade Glass
Optical Class	1/1/1/2		--
Viewing Area	98x44mm (2.94" x1.32")	100x60mm (3.94" x2.36")	110x90mm (4.33" x3.54")
Cartridge Size	110x90x9mm (4.33" x3.54" x0.35")		110x90x3mm (4.33" x3.54" x0.12")
Arc Sensor	2		--
Light State	DIN 3.0		--
Dark State	DIN 9-13		DIN 9/10/11/12
Shade Control	Low - High, by infinitely dial knob	Low - High, LED and button control	--
Power On/Off	Automatic On / Off		--
Sensitivity Control	Low - High, by infinitely dial knob	Low - High, LED and button control	--
UV/IR Protection		Up to Shade DIN16 at all times	
Power Supply	Solar cell. Battery replaceable, 1 x CR2450 lithium battery	Solar cell. Battery replaceable, 2 x CR2032 lithium battery	--
Switching Time	1/16,000s. from Light to Dark		--
Delay (Dark to Light)	0.05 - 1.0 s, continuous knob	0.05 - 1.0 s, continuous knob	--
Low Amperage TIG Rated	≥ 2 amps (DC); ≥ 2 amps (AC)		--
Grinding	Yes		--
Battery Capacity Test	Yes		--
Low Battery Indicator	Yes		--
Dark Mode	--	Internal, LED and Button Control	--
Operating Temperature	-10°C to 55°C (14°F to 131°F)		-20°C to 55°C (-4°F to 131°F)
Storing Temperature		-20°C to 70°C (-4°F to 158°F)	
Helmet Material		High Impact Resistance Nylon	
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		
Approved	CE, UKCA, ANSI Z87.1, CSA Z94.3, AS/NZS 1338.1, EAC		



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Bravex® reserves the right to alter specifications without prior notice