EVERLAST
WELDING AND CUTTING SYSTEMS

CE
EN 207
EN ISO 16321
EN 12941 TH3

PAPR LASER WELDING HELMET SYSTEM

EVERLAST LEGION-AIR



The BEST solution for

LASER WELDING / CUTTING / CLEANING

✓ **LASER PROTECTION**
1000-1100 D LB7 + IR LB8
OD 8@1000-1100nm OD 10+@1064nm OD 8+@1070nm

OWNER'S MANUAL

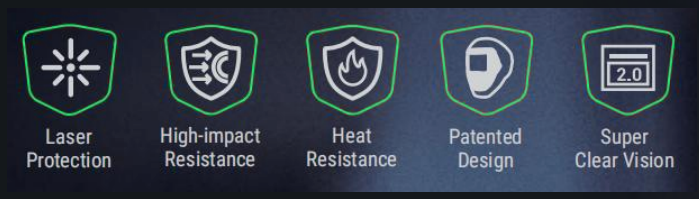
POWER VISION LEGION-AIR

EVERLAST LEGION-AIR

ENGINEERED TO PROTECT.

The Legion-Air is built for laser welding, cutting, and cleaning.

Laser processing emits highly penetrating harmful infrared, ultraviolet, and blue light that can severely damage your eyes and face, even causing blindness. It also generates toxic substances that threaten your respiratory health. Proper protective equipment isn't optional — it's essential for your safety.



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ALL-AROUND SAFETY AGAINST LASER EXPOSURE

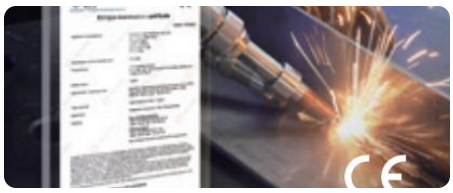
The Legion-Air laser welding helmet is specifically designed for laser welding/cutting/cleaning applications to protect users.

The variable shade laser lens provides full protection against direct laser exposure, as well as reflection, scattering, diffraction, and divergence from the laser beam. Meanwhile, it offers protection against UV/IR/blue light.



Model: Everlast Legion-Air

CE **EN 207 · EN ISO 16321**



EN207 Approval

Certified to EN207 with a laser protection rating of 1000-1100 D LB7 + IR LB8. The optical density (OD) reaches OD8 @ 1000-1100nm and OD10+ @ 1064nm, effectively preventing eye burns, retinal damage and other tissue damage.



Ultra-Clear Vision

Experience exceptional clarity and details with our DIN2.0 variable shade laser lens, powered by ReaLens™ Technology. Superior vision quality leads to superior work quality.



Smart Adjustment

You can easily adjust the shade (4-8/8-12), delay, and sensitivity settings to suit your specific work requirements via the intuitive panel with LED indicators.

Specifications

Viewing Area	96 × 46.5 mm (3.78" x 1.83")
Cartridge Size	110 × 90 × 9 mm (4.33" x 3.54" x 0.35")
Optical Class	1 / 1 / 1 / 2
Number of Sensors	2
Power On / Off	Automatic On / Off
Dark Shades	4-8/8-12
Light State	2.0
Shade Control	Internal, Variable Shade
Switching Speed	1/25,000 s. from Light to Dark
Special Modes	GRIND / CUT / MIX / DARK
Sensitivity Control	Low - High, LED and button control

Delay	0.1-1.0 s, LED and Button Control
UV / IR Protection	Up to Shade DIN16 at all times
Operating Temp.	-10°C to 55°C (14°F to 131°F)
Storing Temp.	-20°C to 70°C (-4°F to 158°F)
Helmet Material	High Impact Resistance Nylon + metal materials
Laser Protection	1000-1100 D LB7 + IR LB8
Optical Density (OD)	OD 8@1000-1100nm OD 10+@1064nm OD 8+@1070nm
Interlock System	Yes
Approvals	CE (EN207, EN ISO 16321), ANSI, EAC

LEGION-AIR PAPR · WITH LASER WELDING HELMET

Make Laser Welding Safe and Breathable

All-in-one integrated PAPR system for laser welding/cutting/cleaning. The Legion-Air helmet provides full protection against direct laser exposure, as well as reflection, scattering, diffraction, and divergence from the laser beam. Meanwhile, the Legion-Air blower unit delivers a stable airflow to users with clean air.





Filter efficiency

>99.997%

All-in-one system All for your safety

Filters out certain airborne contaminants, including dust, pollutants, fine particles as well as other contaminants, welding dust, metal dust. Supplying clean air to the user's facial space.

CE

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PAPR filter schematic

Constant air supply design delivers 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**
Protects blower unit from being damaged by high temperature and high-speed impact objects.

B **Spark screen**
Blocks metal splashes from igniting other filter components.

C **Pre-filter**
Blocks 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/A1B1E1/A1/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 (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**
Two levels of airflow rate (170L/min and 210L/min) available.

J **Hose**
Connect respirator and welding helmet, delivering clean air to the helmet.



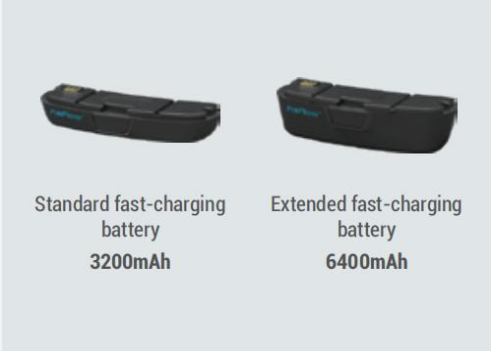
Filtering Component

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



Two Battery Type Options

Fast-charging design saves time and improves efficiency.



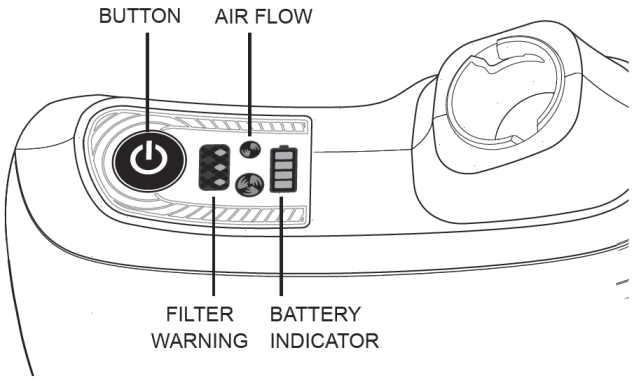
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Special Modes	GRIND / CUT / MIX / DARK
Sensitivity Control	Low - High, LED and button control
Delay	0.1-1.0 s, LED and Button Control
UV / IR Protection	Up to Shade DIN16 at all times
Helmet Material	High Impact Resistance Nylon
Laser Protection	1000-1100 D LB7 + IR LB8
Optical Density (OD)	OD 8@1000-1100nm OD 10+@1064nm OD 8+@1070nm
Interlock System	Yes
Eye and Face Approvals	CE (EN207, EN ISO 16321), ANSI, EAC

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 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 hours Battery life: ≥ 550 charges
Filter	Filter efficiency: > 99.997% Alarms: Visible, audible and vibration Particle filter (P3 Filter) Gas filter (A1B1E1K1/A1B1E1/A1/A2/Odor Filter)
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 TH3 P R SL, AS/NZS 1716 CE, AS/NZS, EAC

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

Blower controls & indicators



Only Button controlling both Power On/Off and Airflow switch

1. Power On/Off
On — Press and hold for 3 seconds.
Off — Press and hold for few seconds until bleeping sounds finish.
2. Airflow switch
Press the Button to switch between 170+lpm and 210+lpm.

Indicator light refers to the airflow state. Two different levels: Low Speed — 170+lpm, High Speed — 210+lpm.

Display screen indicates the battery capacity.

Warning lights help to check the filter status. More light spots turn on, more dirty it means. When warning lights flash, pls. replace the filter.

Hose connection

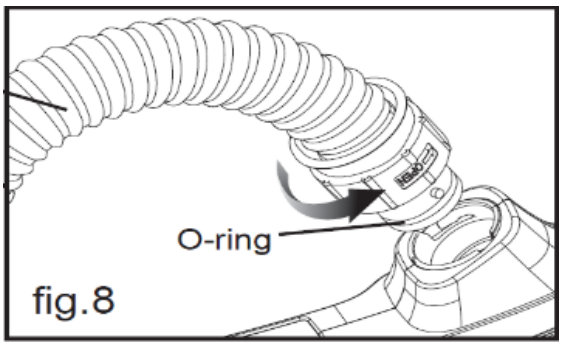
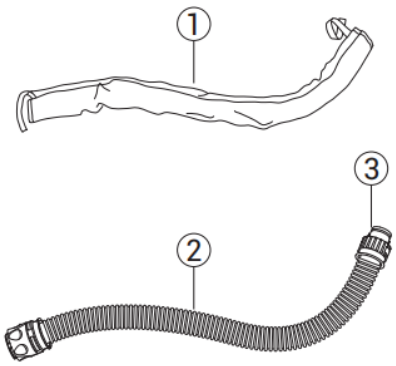


fig. 8 — hose connection with O-ring

D Hose

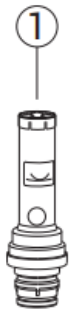
D



D-1. Hose Cover	V1HC TM3 00
D-2. Quick-connection Hose	V1OR TM3 00
D-3. O-ring	V1HO TM3 01

F Airflow indicator II

F

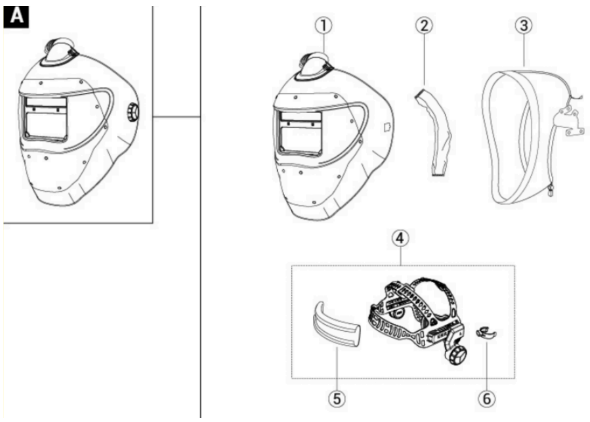


F. Airflow indicator II	202903

PAPR part list

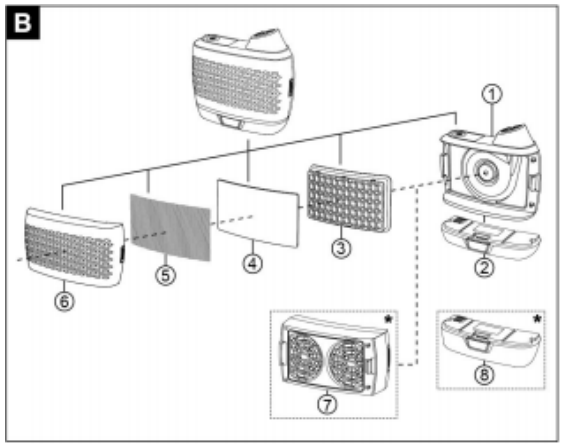
The part with * means it is not included in the product, which need to be purchased separately.

A Headtop



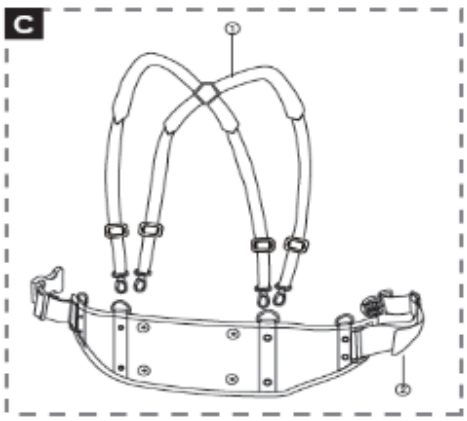
A-2. Short hose cover	106345
A-3. Face seal	106371
A-4. Headgear (including sweatband)	HG2023010-V
A-5. Sweatband	SWTM025
Outside cover lens	FC111.5*95.6*1.0
Inside cover lens	IC98.2*51.8*1.0

B Blower Unit



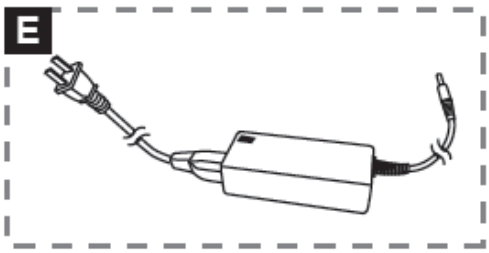
B-2. Fast-charging standard battery	V1FBA TM 3 00
B-3. Particle Filter (P3 Filter)	V1P3 TM3 00
B-4. Pre-filter	V1PF TM3 00
B-5. Spark screen	V1SS TM3 00
*B-7. ABEK1 Gas filter	V1GF TM3 00
*B-7. A2 Gas filter	V1GF TM3 01
*B-7. ABE1 Gas filter	V1GF TM3 02
*B-8. Fast-charging extended battery	V1FEB TM3 00
*Odour filter	V1OF TM3 00

C Wears



C-1. Shoulder Strap	V1SH TM3 00
C-2. Belt Cushion	V1BE TM3 00

E Fast-charging battery charger



E. Fast-charging battery charger	V1FBC TM3 00