



**VIKING™ PAPR 3350
WELDING HELMET**
POWERED AIR PURIFYING RESPIRATOR

**LINCOLN®
ELECTRIC**





Clear The Air On Welding Safety

Where welding operations are concerned, safety is directly connected to air quality. When welding must be performed in enclosed or other areas where it is difficult to provide effective ventilation or otherwise control exposure to welding fume, the last line of defense is personal protective equipment for the individual operator. The VIKING™ PAPR (Powered Air Purifying Respirator) provides effective air-purification solution all-day long.

The VIKING™ PAPR is a complete system that purifies ambient air from the shop and delivers filtered, breathable air for as much as eight hours without interruption. The two-speed blower drives filtered air through the hose into a modified VIKING™ 3350 helmet which has a perfect 1/1/1/1 optical clarity and now also features 4C™ Lens Technology. A patent pending adjustable baffling system inside the helmet directs air away from eyes to keep them from getting dry. The PAPR system has an OSHA Assigned Protection Factor of 25⁽³⁾.

Proper ventilation may not always be an option in every welding environment. Bring fume protection and filtered air directly to the operator in difficult environments and keep it there all day with the PAPR.

(3) APF=25 for loose fitting Powered Air-Purifying Respiratory according to OSHA 3352-02 2009, when the employer implements a continuing, effective respirator program in compliance with the Respiratory Protection Standard (29 CFR 1910).

See Clearly Now

4C™ Lens Technology

The new 4C ADF Technology improves the performance of the lens in the 4 most important categories to the welder:

- 1. Clarity - Optical Clarity 1/1/1/1
- 2. Color - Real Color View
- 3. Carat - Light Weight
- 4. Cut - Even Shade From Any Angle

The 4C Lens Technology upgrade to Lincoln Electric's VIKING™ PAPER 3350 welding helmet – improves visibility and reduces eye strain by minimizing the traditional lime green coloring in the helmet view screen.

4C technology is ideal for a range of industries such as general fabrication, power generation, shipbuilding, structural, offshore and pipeline that use multiple welding processes, including Stick, MIG and TIG. Whatever the task at hand, 4C technology gives you a clear view to productivity and quality.



3350 PAPER
Welding Helmet
KP5121-1

Inactive State



Previous 1/1/1 Inactive



NEW 4C Inactive

Active State



Previous 1/1/1 Optical Clarity



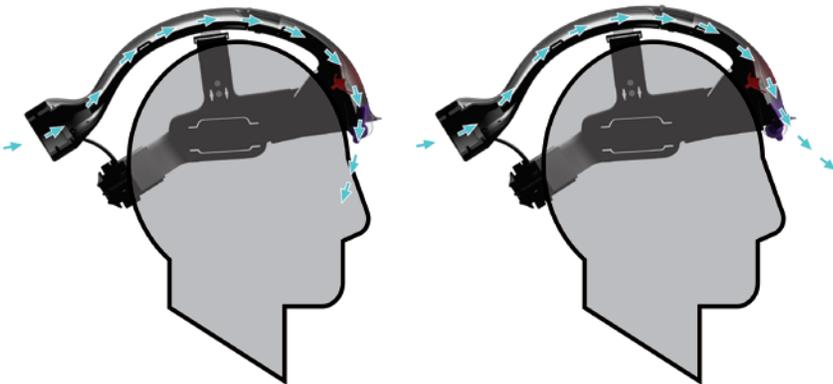
NEW 4C 1/1/1 Clarity

VIKING PAPR - Plenum

Two air flow baffles allow users to adjust the air for maximum comfort and prevent drying of the eyes.



First baffle (Red) - controls ratio of air over forehead vs temples



Second baffle (Purple) - directs air closer or further from your face

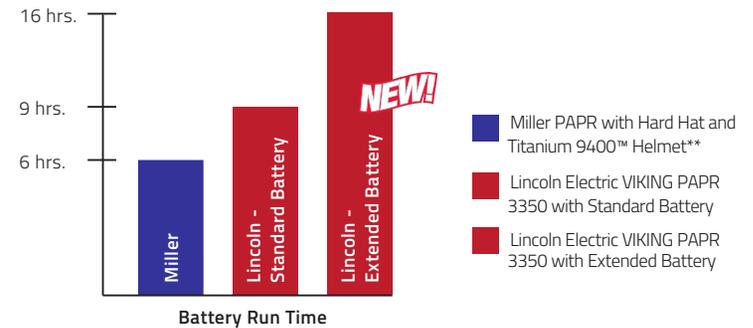
Comfort, Performance and Efficiency

Lightweight and comfortable

The blower weight is 2.20 lbs while the entire system weighs in at 6.19 pounds, most of which is in the belt pack and hose and away from the head and shoulders. The low-profile blower in the belt unit allows unrestricted movement.

Lasts all day (and then some)*

Operators can work a full shift (or more) without interruption. The PAPR comes with a standard battery that outpaces the battery life of competing systems. Additionally, Lincoln offers an extended battery which has a run time of up to 16 hours. This extra battery capacity provides flexibility when working overtime and is a safeguard when the system is not recharged overnight. The system also has audible and vibrating alarms to signal when the battery is low.



Two speeds, consistent delivery

The PAPR system maintains a positive pressure at two speeds: 180 and 210 liters per minute. The system automatically adjusts fan speeds to keep airflow constant.

*Results based on the following test parameters: side by side comparison between the Lincoln Electric K3930-1 and the Miller 9400, on the low flow setting with a 50% blocked filter.

**The trademark Titanium 9400™ Miller®, and Miller Electric® are the property of Illinois Tool Works Inc.

PAPR (POWERED AIR-PURIFYING RESPIRATOR) SPECIFICATIONS	
Product Number	K3930-1
Size of Blower Assembly (W x T x D)	8 x 7.5 x 3 in (203 x 191 x 76 mm)
Weight of Blower (including battery, belt and filters)	2.20 lb. (1.0 kg)
Air Flow	Low Speed: 180+ lpm (6+ cfm) High Speed: 210+ lpm (7.4+ cfm)
Operating Temperature	23° to 131°F (-5° to 55°C)
Battery Type	Lithium Ion (Rechargeable)
Battery Charge Time	Three hours
Battery Charges	500 charges
Belt Size ¹	29 to 52 in (736 to 1321 mm)
Respirator Approval ²	NIOSH 42 cfr 84 Approved Powered Air-Purifying Respirator (PAPR)
Assigned Protection Factor ³	25
Helmet Replacement Battery	CR 2450
Battery Life (Standard)	8 Hours
Charge	115 Volt Input
Alarms	Audible and Vibrate
Head Gear	FR Flame Retardant

- (1) Belt size maximum of 60 in. (1524 mm) with belt extension accessory.
(2) Refer to NIOSH respirator approval label for system configuration.
(3) APF=25 for loose fitting Powered Air-Purifying Respirator according to OSHA 3352-02 2009, when the employer implements a continuing, effective respirator program in compliance with the Respiratory Protection Standard (29 CFR 1910).

PAPR (POWERED AIR-PURIFYING RESPIRATOR) HELMET SPECIFICATIONS	
Optical Class	1/1/1/1 (per EN 379)
Lens Switching Speed (sec)	1/25,000
Variable Shade/Control	5-13 Internal
Magnifying "Cheater" Capable Lens	Yes
Grind Mode Shade/Control	3.5 Internal
Light Sensitivity Control	Continuous
Delay Control Dark to Light (sec)	0.1 - 1.0 Fully Adjustable
Arc Sensors	4
TIG AMP Rating	DC > 2 Amp AC > 2 Amp
Helmet Compliance	ANSI Z87.1-2010, CSA Z94.3, CE
Cartridge Size	US 5.25 x 4.50 in (133 x 114 mm)
View Size	3.7 x 3.34 in (95 x 85mm)
Blower Assembly	1 Year Warranty
ADF Helmet	3 Year Warranty

Perfect 1/1/1/1 Optical Clarity
The PAPR system is equipped with a VIKING 3350 helmet that offers a top EN 379-1/1/1/1 optical clarity rating.



What's Included:

- >> Blower Unit
- >> VIKING 3350 Black Helmet
- >> Head Cover
- >> Hose
- >> 2 Particulate Filters
- >> 29-52 in. Padded Belt
- >> Shoulder Strap
- >> 120V Battery Charger
- >> Duffle Bag
- >> Rechargeable Battery
- >> Pre-Filter
- >> Spark Guard
- >> Hose Cover
- >> Extra helmet cover lenses: inside quantity 2, outside quantity 5
- >> Instruction Manual



VIKING™ PAPR Accessories

MOUNTING OPTIONS



VIKING™ PAPR Back Pack
Adjustable VIKING™ PAPR Back Pack secures VIKING™ air purifying blower to operators back.
K5309-1



VIKING™ PAPR Adjustable Leather Belt
Adjustable leather belt assembly secures Viking air purifying blower to operators waist.
KP5123-1



PAPR Shoulder Strap Assembly
Adjustable Shoulder Straps for Viking Powered Air Purifying Respirators.
KP5124-1



VIKING™ PAPR Belt Extension
Extends belt to 60 in.
KP3939-1

BATTERY/FILTER OPTIONS



Multi-Operator PAPR 6 Battery Charger
Battery charging port capable of charging 6 Lincoln Electric PAPR batteries at once.
KP3383-1



VIKING™ PAPR Extended Battery
Provides up to 16 Hour Battery Life for the VIKING™ 3350 PAPR System, rechargeable Lithium Ion, rated for 500+ charge cycles.
KP3937- Standard
KP3938-1 - Extended



VIKING™ PAPR Battery Charger – 115V
115/120V Battery Charger for Viking PAPR Rechargeable Lithium Ion Battery Packs.
KP3932-1



VIKING™ PAPR - High Efficiency Particulate Filters
HE Filter Assembly
KP3424-3
KP3424-6
KP3935-1

HEADGEAR OPTIONS



VIKING™ 3350 PAPR Headgear
Easily adjustable design for optimal fit and comfort. Includes plenum and sweatband.
KP3942-1



VIKING™ FGS® PAPR Pivot Headgear
Replacement Pivot Headgear for 3250D FGS Powered Air Purifying Respirator Helmet Assembly.
KP4471-1



VIKING™ FGS® PAPR Hard Hat
Premium high-density polyethylene (HDPE) hard hat.
KP4979-1



3350 PAPR - Sweatbands
KP3943-1



3350 XG PAPR - Front Sweatband
KP3943-1



3350 XG PAPR - Replacement Backpad for Headgear
KP4640-1

REPLACEMENT PARTS SALES NUMBER	DESCRIPTION	DIMENSIONS	PACKAGE QTY.
KP5121-1	VIKING PAPR 3350 Helmet Assembly (PKG includes Headgear and Headcovering)	N/A	1
KP2898-1	Outside Cover Lens	5.25 x 4.5 in	5
S27978-32	Outside Cover Lens Seal	N/A	1
KP3045-2	3350 Auto-Darkening Lens	N/A	1
KP3044-1	Inside Cover Lens	3.53 x 3.73 in	5
S27978-33	Lens Holder	N/A	1
KP3942-1	Headgear (including plenum and sweatband)	N/A	1
KP3943-1	Sweatband	N/A	2
KP3940-1	Headcovering (w/hook and loop attachment)	N/A	1
KP3944-1	Blower Assembly (PKG includes filter cover assembly)	N/A	1
KP3937-1	Standard Battery (for Viking PAPR)	N/A	1
KP3938-1 NEW!	Extended Battery (for Viking PAPR)	N/A	1
KP3424-2	HE Filter Assembly	N/A	2
KP3424-6	HE Filter Assembly	N/A	6
KP3935-1	Pre-filter	N/A	6
KP3936-1	Spark Screen	N/A	1
KP3932-1	Battery Charger	N/A	1
KP5123-1	PAPR Belt Assembly	N/A	1
KP5124-1	Shoulder Strap Assembly	N/A	1
KP3939-1	Belt Extension (extends belt to 60 in.)	N/A	1
KP5122-1	Hose Assembly with Cover	N/A	1
KP3046-100	Cheater Lens 1.00 MAG	2 X 4.25 FRAME, 1.0 MAG	1
KP3046-125	Cheater Lens 1.25 MAG	2 X 4.25 FRAME, 1.25 MAG	1
KP3046-150	Cheater Lens 1.50 MAG	2 X 4.25 FRAME, 1.5 MAG	1
KP3046-175	Cheater Lens 1.75 MAG	2 X 4.25 FRAME, 1.75 MAG	1
KP3046-200	Cheater Lens 2.00 MAG	2 X 4.25 FRAME, 2.0 MAG	1
KP3046-225	Cheater Lens 2.25 MAG	2 X 4.25 FRAME, 2.25 MAG	1
KP3046-250	Cheater Lens 2.50 MAG	2 X 4.25 FRAME, 2.5 MAG	1
K3096-1	Duffle Bag	N/A	1

CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company® is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.com for any updated information.

The operation of welding fume control equipment is affected by various factors including proper use and positioning of the equipment, maintenance of the equipment and the specific welding procedure and application involved. Worker exposure level should be checked upon installation and periodically thereafter to be certain it is within applicable OSHA PEL and ACGIH TLV limits.