



**VIKING 3250D FGS PAPR
WITH HARD HAT
POWERED AIR PURIFYING RESPIRATOR**



ANSI Certified
CSA Certified
NIOSH® Certified

What's Included

- VIKING 3250D Hard Hat FGS PAPR Welding Helmet
- Blower Unit
- Pre-Filter
- Lithium Ion Battery
- Spark Screen
- 120V Battery Charger
- Hose with Cover
- Padded Belt [29-52 in.]
- Headcovering
- Shoulder Straps
- Duffle Pack

VIKING™ 3250D FGS® PAPR with Integrated Hard Hat

When choosing a PAPR for a fabrication environment, its blower design, field of view & optic quality are 3 important variables to consider.

The VIKING 3250D FGS Powered Air Purifying Respirator features a smart blower system, integrated grind shield & hard hat and a extra large 12.5 Sq. Inch auto-darkening lens with our exclusive 4C® Lens technology.

4C[®] Lens Technology

Lincoln Electric's proprietary liquid crystal display (LCD) enhances the visible color spectrum of the display. Unlike traditional auto-darkening filters, 4C lens technology broadens the color range and hues which can be seen in both light and dark states. This eliminates visual imperfections and color saturation to create the clearest view of the base material, arc and puddle, while reducing eye strain.



Extra Large Auto-Darkening Lens



VIKING 3250 FGS PAPR

12.5 in

VIKING 3350 PAPR

12.5 in

Competitor 1

12 in

Competitor 2

9 in

Competitor 3

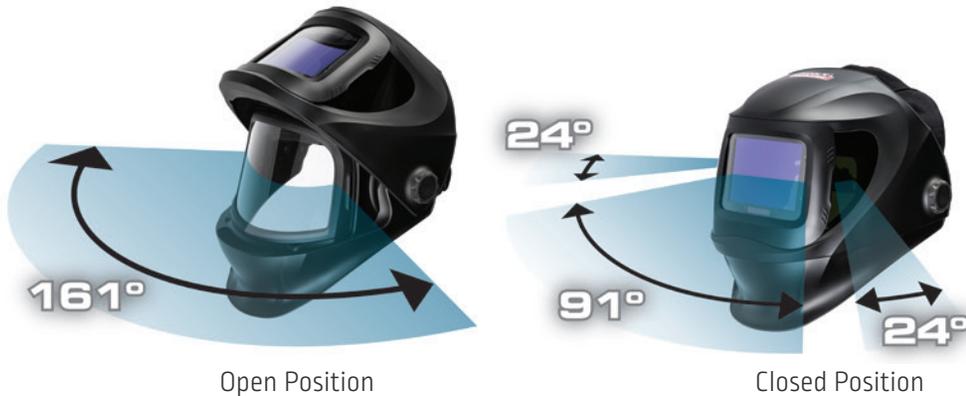
7.5 in

Auto-Darkening Lens Specs

Optical Clarity	Lens Switching Speed (sec)	Variable Shade/Control	Battery Replacement Type	Magnifying "Cheater" Capable Lens	Grind Mode Shade/Control	Light Sensitivity Control	Delay Control Dark to Light (sec)	Arc Sensors	TIG Amp Rating	View Area in (mm)	Temperature Range	Weight oz (g)	Warrenty
1/1/1/1	1/25,000	5-13 Internal	2 CR2450 Replaceable Batteries	Yes	4/Internal	Digital Display Control	0.0-1.0 Digital Adjustment	4	DC > 2 Amp AC > 2 Amp	2.95x4.25 (75x108)	Operating: 14°F - 131°F Storage: -4°F - 158°F	28 (793)	3 Years

Maximizing Field of View

The VIKING FGS PAPR welding helmet increases field of view in both the open and closed positions. This provides operators with various safety and productivity enhancements.



SAFETY

- The 161 Degree field of vision can help make material inspection, grinding and general movements less hazardous
- Shade 5 side windows increase peripheral vision in the closed position
- The anti-fog lens coating allows for a more consistently clear view

PRODUCTIVITY

- The integration of a clear grind shield shortens the amount of time needed to begin grinding operations and eliminates the need for a separate face shield
- The expanded field of vision in both positions can reduce setup, inspection and weld time
- The large auto-darkening viewing area enhances operator control



COMFORTABLE HEADCOVERING

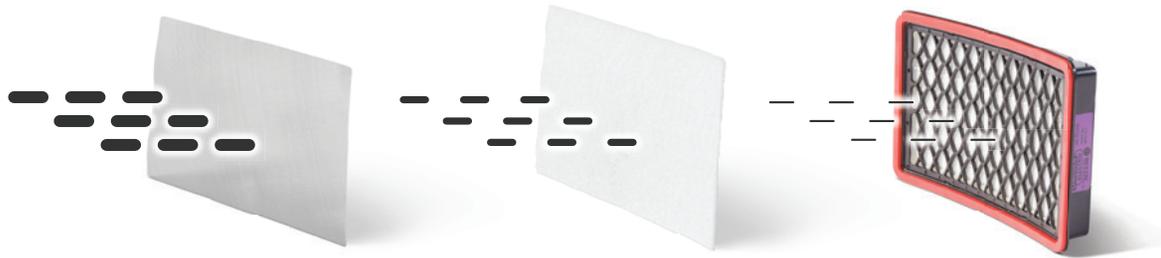
- FR Cotton with super soft seal
- Two small drawstrings to adjust fit and comfort
- Easily replaceable via hook & loop seal



SIDE WINDOW COVERS

- Used to block all light from entering through the side windows
- Lightweight & easy to install

Multi-Component Filter System



SPARK SCREEN

- Protects filter media from fire
- Filters large particulate

PRE FILTER

- Filters medium size particulate
- Increases life of HEPA filter

HEPA FILTER

- Filters 99.97% of particulate at .3 microns

HEPA FILTER INFORMATION



Manufactured in an automated assembly line for meticulous consistency



Made in the USA for excellent quality and supply control



Provides rated protection against respirable dust and metal fume particles which include but is not limited to: hexavalent chromium, manganese, iron, zinc oxide, aluminum, nickel, beryllium cadmium, and lead fumes

Calculating the Maximum Protection of the Respirator¹

Maximum Use Concentration (MUC)

The maximum concentration of atmospheric particulate which a user can be protected from when using a specific class of respirator



Assigned Protection Factor (APF)



OSHA Permissible Exposure Limit (PEL)



Maximum Use Concentration (MUC)

Respiratory Specs

Certification	Classification	Assigned Protection Factor ²	Filter Type	Air Flows	Alerts	Suspension	Weight
NIOSH 42CFR Part 84	Loose Fitting Powered Air Purifying Respirator	APF = 25	High Efficiency Particulate Air Filter (HEPA)	Low Speed: 180+ lpm (6+ cfm) High Speed: 210+ lpm (7.4+ cfm)	Audible & Vibratory	Waist mounted via belt & shoulder straps	Blower: 2.20 lb

¹MUC calculation does not apply to conditions that are immediately dangerous to life or health (IDLH).

²Requires employer to implement a continuing, effective respirator program in compliance with 29 CFR 1910.

Simple, Smart Respiratory System



Superior Battery Life¹

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 Electric 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.

Lincoln Electric Extended Battery

16 hrs

Lincoln Electric Standard Battery

9 hrs

Competitor

6 hrs

¹Results based on low flow setting and 50% blocked filter.

Versatile Integrated Hard Hat

The premium high-density polyethylene (HDPE) hard hat provides an added layer of safety for impact protection. Designed for use throughout North America, it meets ANSI Z89.1 and CSA Z94.1 hard hat standards. Ergonomic design includes adjustable harness suspension, ratchet headgear, moisture absorbent headband and more.



Reflective decals for added visibility for additional safety in low light environments.

Made of High-Density Polyethylene for impact protection

Simple push button adjustments to position hard hat for optimal comfort

Ratchet adjustable headgear to set desired tightness and fit

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.
Charger 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

Complete Systems and Replacement Parts

Product Type	Part Number	Description
Complete PAPR Systems	K4550-4	VIKING 3250D FGS PAPR Hard Hat with Standard Battery
	K4550-6	VIKING 3250D FGS PAPR Hard Hat with Extended Battery
Cover Lenses / Face Shield	KP3700-1	Outside Cover Lens - FGS Series
	KP3701-1	Inside Cover Lens - FGS Series
	KP3702-1	Anti-Fog Grind Shield - FGS Series
Filter Components	KP3424-2	HEPA Filter (Order in QTY of 2 EA)
	KP3424-6	HEPA Filter (Order in QTY of 6 EA)
	KP3935-1	PAPR Pre-Filter
	KP3936-1	PAPR Spark Screen
Battery & Blower	KP3937-1	Standard Battery (for Viking PAPRs)
	KP3938-1	Extended Battery (for Viking PAPRs)
	KP3932-1	PAPR Battery Charger
	KP3944-1	PAPR Blower Assembly
Belt, Hose & Straps	KP5123-1	PAPR Belt Assembly
	KP5124-1	PAPR Shoulder Strap Assembly
	KP3939-1	PAPR Belt Extension (ext. belt to 60 in.)
Headcovering & Hose	KP4978-1	PAPR FGS Hard hat headcovering
	KP5122-1	PAPR Hose Assembly with Cover
Various Helmet Parts	KP4474-3	FGS PAPR Hard Hat Helmet Assembly
	KP4977-1	PAPR FGS Hard Hat
	KP4922-1	Replacement Sweatbands
	KP3703-3	FGS Series Auto Darkening Cartridge
	KP3705-1	FGS Series Side Window Covers
	KP4979-1	PAPR FGS Hard Hat Helmet Shell
	S32652-10	FGS Series Outside Cover Lens Holder
	S32652-3	FGS Series Grind Shield Lens Holder
S32652-5	FGS Series - Shade 5 Side Lens	

PAPR Specifications

Product Number	K4550-4	K4550-6
Respirator Approval ¹	NIOSH 42 CFR 84 Approved Powered Air-Purifying Respirator (PAPR)	NIOSH 42 CFR 84 Approved Powered Air-Purifying Respirator (PAPR)
Classification	Loose Fitting Powered Air Purifying Respirator	Loose Fitting Powered Air Purifying Respirator
Assigned Protection Factor ²	25	25
Filter Type	High Efficiency Particulate Air Filter (HEPA)	High Efficiency Particulate Air Filter (HEPA)
Helmet Compliance	ANSI Z87.1-2010, CSA Z94.3	ANSI Z87.1-2010, CSA Z94.3
Air Flow	Low Speed: 180+ lpm (6+ cfm), High Speed: 210+ lpm (7.4+ cfm)w	Low Speed: 180+ lpm (6+ cfm), High Speed: 210+ lpm (7.4+ cfm)
Alarms	Audible and Vibrate	Audible and Vibrate
Battery Type	Lithium Ion (Rechargeable)	Lithium Ion (Rechargeable)
Battery Charge Time	3 Hours	4.5 Hours
Battery Charges	500 charges	500 charges
Battery Life	9 Hours (180 lpm)	16 Hours (180 lpm)
Charge Type	115 V	115 V
Head Covering	FR Flame Retardant	FR Flame Retardant
Belt Size	29 to 52 in (736 to 1321 mm)	29 to 52 in (736 to 1321 mm)
Dimensions of Blower	8 L x 7.5 H x 3 W in (203 x 191 x 76 mm)	8 L x 8.2 H x 3 W in (203 x 208 x 76 mm)
Weight of Blower (including battery, belt and filters)	2.20 lb. (1.0 kg)	2.70 lb (1.2 kg)
Operating Temperature	23° to 131° F (-5° to 55° C)	23° to 131° F (-5° to 55° C)
Warranty - Blower Assembly	1 Year	1 Year
Warranty - Helmet Auto Darkening Lens	3 Years	3 Years

^{1&2}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).

CUSTOMER ASSISTANCE POLICY

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.

All trademarks and registered trademarks are the property of their respective owners.

See user manual for specifications and limitations regarding use. Employers are advised to comply with OSHA regulations (29 CFR Part 1910.134), which require employers to establish and maintain an effective respiratory protection program when employees must wear respirators to protect against workplace hazards and ensure the equipment's effectiveness.