



ANSI Certified

CSA Certified

NIOSH® Certified

What's Included

- VIKING 3250D FGS PAPR
 Welding Helmet
- 2 HEPA Filters
- Blower Unit
- Pre-Filter
- Lithium Ion Battery
- Spark Screen

- 120V Battery Charger
- Hose with Cover
- Padded Belt (29-52 in.)
- Headcovering
- Shoulder Straps
- Duffle Bag

VIKING™ 3250D FGS® PAPR

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 & side windows and a extra large 12.5 Sq. lnch auto-darkening lens with our exclusive $4C^{\circ}$ 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 3250D FGS PAPR
12.5 in

Competitor 1
12 in

Competitor 2
9 in

Competitor 3
7.5 in

Auto-Darkening Lens Specs

Optical Clarity	Lens Switch- ing Speed (sec)	Variable Shade/Control	Battery Replacement Type	Magnifying "Cheater" Capable Lens	Grind Mode Shade/Control	Light Sensi- tivity 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 Dis- play Control	0.0-1.0 Digital Ad- justment	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



ADVANCED HEADGEAR

- Easy forward and backward slide adjustments
- Up and down orientation pin
- Vertical positionlock
- Variable tightness expands versatility



COMFORTABLE HEADCOVERING

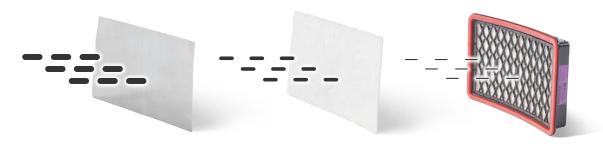
- FR Cotton with super soft seal
- Two small drawstrings to adjust fit and comfort
- Easily replaceable via hook & loop seal



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 Particu- late 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

Lincoln Electric Standard Battery

Competitor

16 hrs

9 hrs

6 hrs

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

Complete Systems and Replacement Parts

Product Type	Part Number	Description			
G LL DADD G	K4550-1	VIKING FGS PAPR System w/Standard Battery			
Complete PAPR Systems	K4550-3	VIKING FGS PAPR System w/Extended Battery			
	KP3700-1	Outside Cover Lens - FGS Series			
Cover Lenses / Face Shield	KP3701-1	Inside Cover Lens - FGS Series			
	KP3702-1	Anti-Fog Grind Shield - FGS Series			
	KP3424-2	HEPA Filter (Order in QTY of 2 EA)			
Filher Components	KP3424-6	HEPA Filter (Order in QTY of 6 EA)			
Filter Components	KP3935-1	PAPR Pre-Filter			
	KP3936-1	PAPR Spark Screen			
	KP3937-1	Standard Battery (for Viking PAPRs)			
Detton C Player	KP3938-1	Extended Battery (for Viking PAPRs)			
Battery & Blower	KP3932-1	PAPR Battery Charger			
	KP3944-1	PAPR Blower Assembly			
	KP5123-1	PAPR Belt Assembly			
Belt, Hose & Straps	KP5124-1	PAPR Shoulder Strap Assembly			
	KP3939-1	PAPR Belt Extension (ext. belt to 60 in.)			
Handsonaring C Hass	KP4473-1	FGS PAPR - Headcovering			
Headcovering & Hose	KP5122-1	PAPR Hose Assembly with Cover			
	KP4474-1	FGS PAPR Replacement Welding Helmet			
	KP4471-1	FGS PAPR Headgear			
	KP2930-1	Replacement Sweatbands			
	KP3703-3	FGS Series Auto Darkening Cartridge			
Various Helmet Parts	KP3705-1	FGS Series Side Window Covers			
	KP4472-1	FGS PAPR - Helmet Shell			
	\$32652-10	FGS Series Outside Cover Lens Holder			
	\$32652-3	FGS Series Grind Shield Lens Holder			
	S32652-5	FGS Series - Shade 5 Side Lens			

PAPR Specifications

Product Number	K4550-1	K4550-3			
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+ Ipm (6+ cfm), High Speed: 210+ Ipm (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			

¹⁶²APF=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).

CUSTOMERASSISTANCEPOLICY

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.

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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.

