



# OMNISHIELD® FACE SHIELD PAPER

POWERED AIR PURIFYING RESPIRATOR





**ANSI Certified**  
**CSA Certified**  
**NIOSH® Certified**

## What's Included

### OMNISHield XC PAPER

- OMNISHield XC Face Shield
- 2 HEPA Filters
- PAPER Blower Unit
- Pre-Filter
- Lithium Ion Extended Battery
- Spark Screen
- 120v Battery Charger
- Hose with Cover
- Padded Belt (29 - 52 in.) or PAPER Back Pack
- Head Covering
- Shoulder Straps
- Duffel Pack

### OMNISHield XCF PAPER

- OMNISHield XCF Face Shield (Shade 5 Flip Up)
- 2 HEPA Filters
- PAPER Blower Unit
- Pre-Filter
- Lithium Ion Extended Battery
- Spark Screen
- 120v Battery Charger
- Hose with Cover
- Padded Belt (29 - 52 in.) or PAPER Back Pack
- Head Covering
- Shoulder Straps
- Duffel Pack
- Flip Up Shade 8

## OMNISHield® PAPER

Get the necessary protection with the OMNISHield Face Shield Powered Air Purifying Respirator (PAPER) systems. The extended chin guard provides additional coverage of the chin and neck area, while our powered air purifying respirator filters out respirable dust and metal fume particles. With the adjustable air flow and lightweight design, you can work with ease and all day comfort.



# The Evolution of Face Protection

## OMNISHield<sup>®</sup>

The Omnishield's next generation design is the modern answer to impact protection. The high density contoured lens is over 90% thicker than a traditional face shield. This added protection is coupled with a unique, patented air flow design headgear that is easily adjusted to maximize operator comfort. Available in a Anti-Fog Clear Shield or a Flip-Up Shade 5 style. The OMNISHield is the professional's choice for face protection.

*NOTE: Face shields are a secondary protection item and should always be worn with safety glasses.*



# OMNISHield – The Professional’s Choice

## Proven Impact Protection

- » High density polycarbonate lens provides protection from high velocity impacts
- » Certified to meet ANSI Z87.1, CSA Z94.3 compliance standards

## Superior Comfort

- » Modern headgear with multiple adjustment points for optimal fit, balance and function
- » Cushioned front and back headband reduces pressure and absorbs sweat
- » Lightweight design for all day comfort

## Advanced Lens Coatings

- » Anti-fog layer enhances visibility and improves productivity
- » Anti-scratch layer improves abrasion resistance and can increase the life of the lens

## Compatibility

- » Headpiece is compatible with various replacement lenses for use in various environments or applications
- » Compatible with PAPR adjustable belt or PAPR back pack mounting options for proper weight distribution.

### Complete Faceshields »



OMNISHield XC PAPR



OMNISHield XCF PAPR  
Flip Up Shade 5

### Replacement Lenses »



Standard



Anti-Fog



Dual



SH 3 IR



SH 5 IR

### Blower Mounting Options »



### Applications »

- Grinding
- Inspection
- Oxyfuel Cutting\*
- Brazing\*

\*Shade 3/5 IR Model Only

## IMPACT PROTECTION



# 90% LARGER THICKNESS

The high density polycarbonate lens has a thickness of 0.077 in. (1.95 mm) which is 90% larger than a traditional face shield.

# 300+ MPH

The high quality polycarbonate lens has been tested to protect against impact velocities exceeding 300 miles per hour.



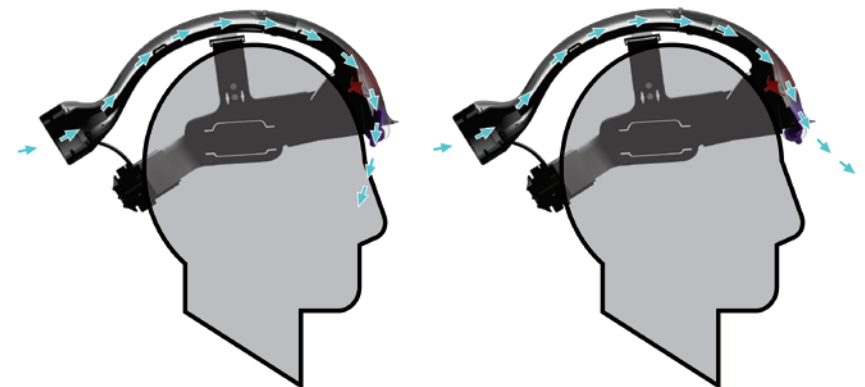
Unique contoured lens profile was designed to protect the face and neck without interfering with other PPE items or hand tools.

## DIRECTIONAL AIR FLOW CONTROL

The OMNISHield Face Shield PAPR features a unique, patented airflow design. The airduct is integrated into the top of the headgear and features two air flow baffles, which the user can adjust to change the direction and distribution of the set air flow. This feature maximizes operator comfort and helps prevent eye dryness.

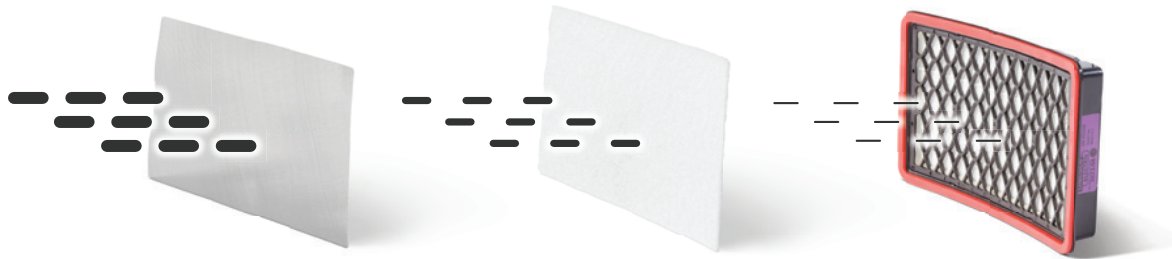


First baffle (Red) - controls ratio of air over forehead vs temples



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

# 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 Respirator<sup>1</sup>

## 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 <sup>2</sup>	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

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

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

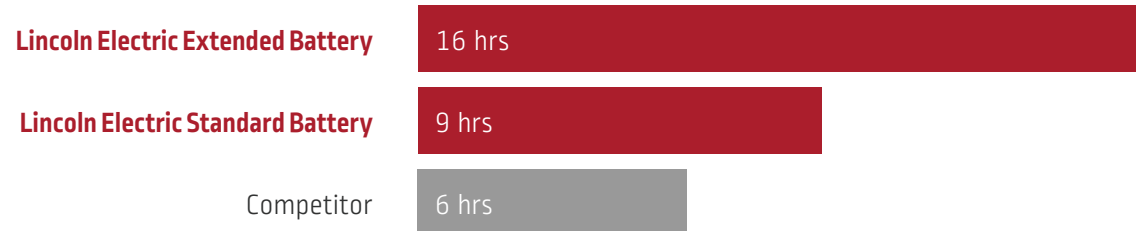
# Simple, Smart Respiratory System



## Superior Battery Life<sup>1</sup>

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.



<sup>1</sup>Results based on low flow setting and 50% blocked filter.

# 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**  
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



**Face Shield Headpiece**  
Replacement headpiece for the OMNISHield® XC PAPR  
**KP5327-1**



**Flip-Up Face Shield Headpiece**  
Replacement headpiece for the OMNISHield® XCF PAPR  
**KP5328-1**



**OMNISHield PAPR Chin Guard**  
Replacement Chin Guard for OMNISHield® XC & XCF PAPR  
**KP5354-1**



**Headgear - Front Sweatband**  
OMNISHield® PAPR Replacement Front Sweatband  
**KP4639-1**



**OMNISHield PAPR Headcovering**  
OMNISHield® PAPR Replacement headcovering  
**KP5329-1**



**Headpiece Back Pad**  
OMNISHield® PAPR Replacement Headgear Back Pad  
**KP4636-1**



# Complete Systems and Replacement Parts

Product Type	Part Number	Description
Complete PAPR Systems	K5323-1	OMNISHield XC PAPR W/Belt Mount
	K5323-2	OMNISHield XC PAPR W/Back Pack
	K5324-1	OMNISHield XCF PAPR W/Belt Mount
	K5254-2	OMNISHield XCF PAPR W/ Back Pack
Headpiece (includes headgear)	KP5327-1	OMNISHield XC Headpiece
	KP5328-1	OMNISHield XCF Headpiece
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, Back Pack, Hose & Straps	KP5123-1	PAPR Belt Assembly
	KP5124-1	PAPR Shoulder Strap Assembly
	KP3939-1	PAPR Belt Extension (ext. belt to 60 in.)
	KP5310-1	PAPR Back Pack Hose Assembly
	KP5309-1	VIKING PAPR Back Pack
	KP5345-1	PAPR Belt Hose Cover (long)
	KP5122-1	PAPR Hose Assembly with Cover
Headcovering	KP5330-1	OMNISHield PAPR Overhead Covering
	KP5329-1	Chin Seal Covering
Various Face Shield Parts	KP5354-1	OMNISHield Chin Guard
	KP4974-1	OMNISHield Shade 5 Flip-Up Lens
	KP4975-1	OMNISHield Shade 8 Flip-Up Lens

# PAPR Specifications



Product Number	K5323-1/K5323-2	K5324-1/K5324-2
Respirator Approval <sup>1</sup>	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 <sup>2</sup>	25	25
Filter Type	High Efficiency Particulate Air Filter (HEPA)	High Efficiency Particulate Air Filter (HEPA)
Face Shield Compliance	ANSI Z87.1, CSA Z94.3	ANSI Z87.1, CSA Z94.3
Air Flow	Low Speed: 180+ lpm (6+ cfm), High Speed: 210+ lpm (7.4+ cfm)	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	4.5 Hours	4.5 Hours
Battery Charges	500 charges	500 charges
Battery Life	16 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)
Back Pack Dimensions	12.6 L x 17.7 H x 14.6 W In. (320 x 449.6 x 370.8 mm)	12.6 L x 17.7 H x 14.6 W In. (320 x 449.6 x 370.8 mm)
Dimensions of Blower	8 L x 8.2 H x 3 W in (203 x 208 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

<sup>1,2</sup>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 business of Lincoln Electric is manufacturing and selling high quality welding equipment, automated welding systems, consumables, and cutting equipment. Our challenge is to meet the needs of our customers, who are experts in their fields, and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or technical information about their use of our products. Our employees respond to inquiries to the best of their ability based on information and specifications 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, or to provide engineering advice in relation to a specific situation. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or communications. Moreover, the provision of such information or technical information does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or technical information, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose or any other equivalent or similar warranty is specifically disclaimed.

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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.