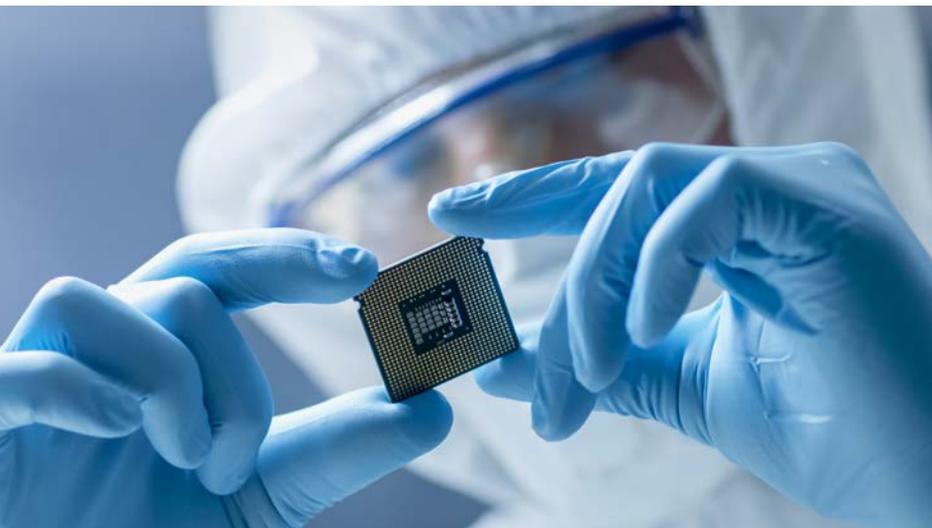




# LINCOLN ELECTRIC CLEAR SHIELD HE

POWERED AIR PURIFYING RESPIRATOR





## Lincoln Electric Clear Shield HE PAPR

The Lincoln Electric Clear Shield High Efficiency Powered Air Purifying Respirator (PAPR) purifies ambient airborne particulate and delivers filtered, breathable air to the user. Potential applications include healthcare facilities, pharmaceutical manufacturing environments, food processing plants and other settings where high efficiency personal respiratory equipment is required.

The Clear Shield HE PAPR combines a specialized protective headpiece with a reusable powered respiratory solution that features an intelligent blower system and HEPA particulate filtration. Other design features, such as an extra-large field of view and cushioned premium belt, help increase comfort and promote ease of movement on the job.

## Applications:

- Clinical / Healthcare
- Laboratory
- Food Processing
- Battery Manufacturing
- Semiconductor Manufacturing
- Electronics Manufacturing

**CANNOT BE USED IN WELDING APPLICATIONS**

# What's Included



Duffle Bag

Clear Shield Polyamide Head Covering with Integrated Headgear

Flexible Air Hose

Adjustable Belt

Air Purifying Blower Unit

Rechargeable Lithium Ion Battery

120V Battery Charger

Blower Cleaning Plugs

Pre-Filter

2 High Efficiency Particulate Arrestance (HEPA) Filters

# Key Features



## WIDE FIELD OF VIEW

- Extra-large clear shield allows for better interpersonal communication
- Unobstructed peripheral and downward vision, helps optimize efficiency and ease of movement on the job
- Shield helps protect against the transmission of droplets

## COVERAGE

- Polyurethane-Coated Polyamide hood covers head, face and neck
- Clear shield provides splash protection for face and eyes
- Integrated headgear suspension helps promote airflow and comfort



## PREMIUM BELT

- Adjustable belt accommodates waist sizes up to 50 in. (1270 mm)
- Cushioned lower back pad helps eliminate pressure points for improved comfort
- Quick attachment to air purifying blower simplifies maintenance and cleaning



## CLEAN AIR HOSE

- Polyurethane coated polyamide protective cover helps shield hose from contaminants
- Simple, secure twist and lock connection to hood and blower
- Flexible rubber construction offers durability and comfort

# 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.

**Lincoln Electric Extended Battery**

16 hrs

**Lincoln Electric Standard Battery**

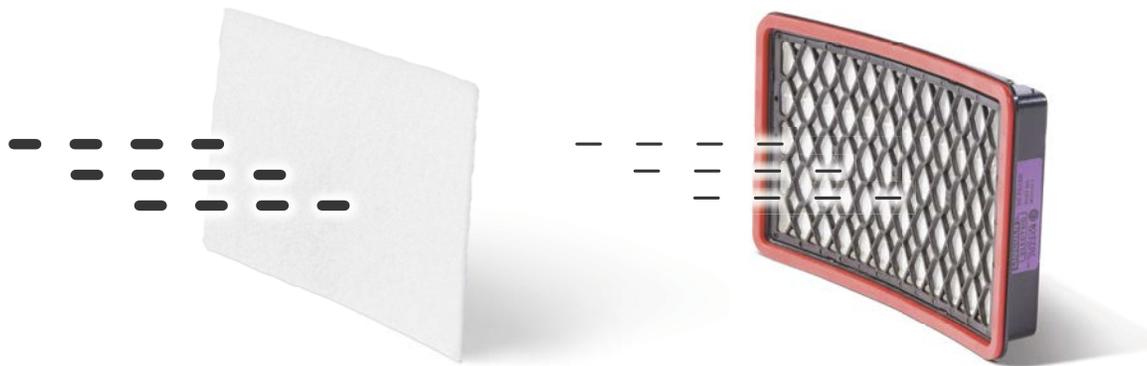
9 hrs

Competitor

6 hrs

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

# Multi-Component Filter System



## PRE FILTER

- Filters medium size particulate
- Increases life of HEPA filter

## HEPA FILTER

- Filters 99.97% of particulate

## 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 all NIOSH indexed particulates

# Advantages of a PAPR System

Powered Air-Purifying Respirators offer some key advantages compared to other commonly used air-purifying respirators:



## No Fit Test Required

simplifies the integration process and helps expand user compatibility



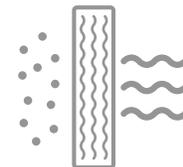
## Clear Visual & Audible Communication

through the large clear face shield



## Increased Comfort & Support

compared to elastic band straps and masks



## Positive Pressure Airflow

reduces operator fatigue and can increase productivity

# Complete Systems and Replacement Parts

Product Type	Part Number	Description
Complete PAPR Systems	K4886-1	Clear Shield HE PAPR with Standard Battery
	K4886-3	Clear Shield HE PAPR with Extended Battery
Head Covering, Hose & Related Accessories	KP4887-1	PAPR HE - Clear Shield Headcover with Integrated Suspension
	KP4890-1	PAPR HE - Headgear Sweatbands
	KP4888-1	PAPR HE - Air Hose Assembly (Includes Cover)
	KP4892-1	PAPR HE - Hose Cover
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
Battery, Blower & Belt	KP3937-1	Standard Battery (for VIKING™ PAPRs)
	KP3938-1	Extended Battery (for VIKING PAPRs)
	KP3932-1	PAPR Battery Charger
	KP3944-1	PAPR Blower Assembly
	KP4891-1	PAPR HE - Blower Cleaning Plugs
	KP4889-1	PAPR HE - Adjustable Terylene Belt Assembly

# PAPR Specifications

Product Number	K4886-1	K4886-3
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)
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	3 Hours	4.5 Hours
Battery Charges	500 charges	500 charges
Battery Life <sup>(3)</sup>	9 Hours (180 lpm)	16 Hours (180 lpm)
Charge Type	115 V	115 V
Head Covering	Polyurethane Coated Knitted Polyamide	Polyurethane Coated Knitted Polyamide
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)	2.40 lb (1.1 kg)	2.94 lb (1.3 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).

Lincoln's Clear Shield PAPR system is approved by NIOSH for protection against particulates at a high efficiency filtration level, and is currently authorized by an Emergency Use Authorization (EUA) issued by the U.S. Food and Drug Administration (FDA) for use in healthcare settings by healthcare personnel when used in accordance with Centers for Disease Control and Prevention (CDC) recommendations to prevent wearer exposure to pathogenic biological airborne particulates during respirator shortages resulting from the COVID-19 outbreak. However, Clear Shield is not intended to be used as a medical device in healthcare surgical settings or in the presence of a high intensity heat source or flammable gas, and has not been cleared by the FDA other than as stated in the EUA.

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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.