

## LINCOLN ELECTRIC RESPIRATORY PROTECTION SOLUTION — PAPR

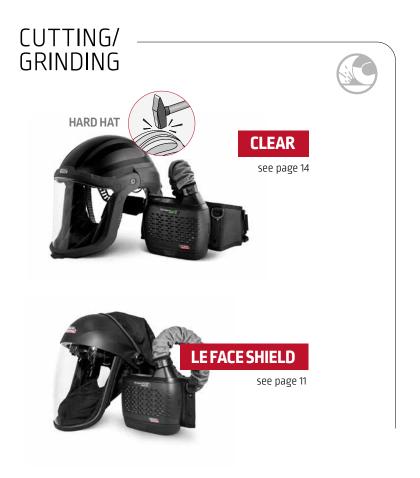
#### **EuropurePLUS™ RANGE TH3 Class**

#### Versatile protection with added value and modularity!

**Ergonomic and smart protection.** Fully integrated safety, with respiratory, head, eye and skin protection options. **Designed to work together for maximum comfort.** 







# **EuropurePLUS™ WAVE 3.0 LS**









#### POWERED AIR PURIFYING RESPIRATOR TH3 Class

The EuropurePLUS™ WAVE 3.0 LS lens offers top-tier 1/1/1/1 optical clarity, ensuring consistent brightness and distortion-free vision at any angle. Airflow is directed from the top of the helmet, complemented by lateral ventilation from both sides for enhanced comfort and cooling.

Weight: 635 + 1020 g

#### WELDING, **CUTTING. GRINDING**





#### What's Included

- EuropurePLUS™ WAVE 3.0 LS with Powered Air purifying Respirator
- Respirator welding helmet
- Front cover lens x5
- Inner cover lens x2
- Pre-filter
- P3 filter
- Lithium Ion Battery
- Spark screen
- Battery Charger
- Hose with cover
- Padded Belt, headcovering, shoulder strap
- Airflow Indicator
- Bandana
- Decal sheet
- Duffle Bag



**TOP-TIER** 1/1/1/10PTICAL

**EUROPURE PLUS™** WAVE 3.0 LS (including the blower)

W403677

EN ISO 16321-1:2022, EN ISO 16321-2:2021, EN 12941 TH3

**CE Certified** 

(EU) 2016/425 (PPE) 2011/65/EU (ROHS)

## **Extra Large Auto-Darkening Lens**

The **6 014 mm<sup>2</sup>** auto darkening lens provides a large field of view to increase versatility and operator control.





## **EXTERNAL GRINDING MODE**

Low-profile external grind button provides seamless transition between weld & grind mode



Variable shades



Arc sensors



Optical class



Low TIG amps rated



Grind mode / Shade control



Lens switching speed



Comfort



Viewing area



Class



#### **EuropurePLUS™ WAVE 3.0 LS**

Applications	Optical Clarity Rating	Lens Switching Speed (sec)	Number of Arc Sensors	Variable Shade Range/Control	Optic Technology	Magnifying "Cheater" Capable Lens	Grind Mode Shade / Control	TIG Amp Rating	Light Sensitivity Control	Delay Control Dark to Light (sec)	Cartridge Size (mm)	Auto-Darkening Viewing Area
Welding, Cutting, Grinding	1/1/1/1	1/25,000	4	Digital; 5 to 13;	LS Technology	Yes	DIN 3/External	≥2 A /DC ≥2 A /AC	Variable	0,05-1,0 s fully adjustable	133x 114 mm	97 mm x 62 mm

## **Advanced Headgear**

- Soft, padded front headband helps eliminate pressure points
- Two adjustable top head straps help distribute weight for increased comfort
- Ratchet adjustable rear headband allows operator to set tightness
- Turn and slide forward and backward adjustments





## **Comfortable Headcovering**

- Flame Retardant Cotton and water resistance with super soft seal.
- Good sealing performance ensuring that a micropositive pressure state is formed in face shield
- Easily replaceable via hook & loop seal.
- Two small drawstrings



## **Light Shade Technology**

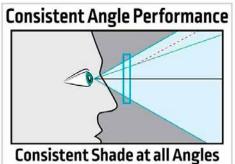


## Perfect 1/1/1/1 Optical Clarity









# EuropurePLUS™ 5500 LS

#### POWERED AIR PURIFYING RESPIRATOR TH3 Class

The EuropurePLUS™ 5500 LS Powered Air Purifying Respirator features a smart blower system, integrated grind shield & side windows and an extra large auto-darkening lens with our exclusive light shade technology.





Helmet weight: 793g

WELDING, **CUTTING. GRINDING** 



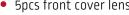


#### What's Included

- EuropurePLUS™ 5500 LS Respirator
- 5pcs front cover lens
- 2pcs inner cover lens
- 1 set side lens cover
- 2 pcs Pre-Filter
- Lithium Ion Battery
- Battery Charger
- Hose with Cover
- Padded Belt







- 2 pcs P3 Filter
- 2 pcs Spark Screen

- Headcovering
- Shoulder Straps
- Airflow Indicator



**MAXIMISING FIELD OF VIEW** 



- Duffle Bag
- Bandana
- Sticker Planch



**SMART BLOWER SYSTEM** 

see page 17

EN ISO 16321-1:2022, EN ISO 16321-2:2021, EN 12941 TH3

**CE Certified** 

(EU) 2016/425 (PPE) 2011/65/EU (ROHS)

(including the blower) W403676

**EUROPURE PLUS™** 

5500 LS

## Extra Large Auto-Darkening Lens

The **8 025 mm<sup>2</sup>** auto darkening lens provides a large field of view to increase versatility and operator control.



# MAXIMISING FIELD OF VIEW

The integrated clear grind shield and shade 5 side windows increase field of view in both the open and closed positions to offer productivity and safety enhancements.



### **Shade Settings**

Tailored protection for every task:

- Grind Mode: Fixed at shade level 3,
- Cut Mode: Adjustable from shade 5 to 8,
- Weld Mode: Adjustable from shade 9 to 13

#### **Grind Mode**

 Perfect for grinding and preparation work. Enjoy a clear, undarkened view without interruptions.

### **Sensitivity Control**

 Fine-tune the sensor to match your welding method and working conditions for optimal performance.

### **Delay Function**

 Prevents the lens from switching to light mode too soon—ideal when the workpiece remains hot and glowing.

#### Dark Mode

• Use the filter as a passive shade glass. No autodarkening—just consistent, reliable protection.



### **Dual-Color Display**

Choose your view:

- Whitish tone for a brighter, more natural look
- Greenish tone for traditional welding visibility



#### Mix Mode

Designed for tack welding and high-current applications. Reduces eye fatigue from sudden shade changes.

Three-phase transition:

- Delay from dark to intermediate shade
- Smooth gradient adjustment
- Delay from intermediate to light



#### **Smart Mode**

• Let your helmet do the thinking. The filter automatically adjusts the shade level in realtime based on welding current.



Lens switching speed



Comfort



Viewing area





Variable shades



Arc sensors



Optical class



Low TIG amps rated



Grind mode / Shade control



#### EuropurePLUS™ 5500 LS

Applications	Optical Clarity Rating	Lens Switching Speed (sec)	Number of Arc Sensors	Variable Shade Range/Control	Optic Technology	Magnifying "Cheater" Capable Lens	Grind Mode Shade / Control	TIG Amp Rating	Light Sensitivity Control	Delay Control Dark to Light (sec)	Cartridge Size (mm)	Auto-Darkening Viewing Area (mm²)
Welding, Cutting, Grinding	1/1/1/1	1/25,000	4+2	Digital; 5 to 13; DIN 16	Light Shade Technology	Yes	DIN 3/FLIP UP	≥2 A /DC ≥2 A /AC	Continuous	0,1-1,0 s fully adjustable	156 x 123 mm	8025

## **Advanced Headgear**

- Adjustable headband
- Multi-axis headgear, and the rear is infinitely adjustable to meet the needs of different head circumferences (distance, tightness / looseness, top of head fit, rotation force and rotation range)
- Cushioned Headgear eliminates pressure points and evenly distributes face shield weight for all day comfort



# **Comfortable Headcovering**

- Flame Retardant Cotton and water resistance with super soft seal.
- Good sealing performance ensuring that a micropositive pressure state is formed in face shield
- Easily replaceable via hook & loop seal.
- Two small drawstrings



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



# **EuropurePLUS™ LE FACE SHIELD**



Blower

#### POWERED AIR PURIFYING RESPIRATOR TH3 Class

The EuropurePLUS™ LE FACE SHIELD Powered Air Purifying Respirator features a smart blower system, integrated Professional Face Shield - Dual Coating. Air flow direction can be changed with built-in wind direction adjuster for optimum comfort.

Helmet weight: 120g

#### **GRINDING, BRAZING, OXYFUEL CUTTING**



#### What's Included

- EuropurePLUS™ LE FACE **SHIELD with Powered Air** purifying Respirator
- 1 Pre-Filter
- 1 P3 Filter
- Lithium Ion Battery
- 1 Spark Screen
- Battery Charger
- Hose with Cover
- Padded Belt
- Headcovering
- Shoulder Straps
- Airflow Indicator
- Duffle Bag
- Face shield SHADE 5

90% **THICKER** 

than a traditional face shield

**AIR FLOW DIRECTION ADJUSTMENT** 



+ A1:2003 + A2:2008

**CE Certified** 

(EU) 2016/425 (PPE) 2011/65/EU (ROHS)

**EUROPURE PLUS™** 

LE FACE SHIELD

(including the blower)

W403679

## Face shield CLEAR

**EuropurePLUS™ LE FACE SHIELD** 

- High-resolution clear vision
- Anti-scratch lens
- Enhanced protection
- High density clear polycarbonate lens
- No distortion of the vision
- High light transmittance
- Good wear resistance



Shade number of **ultraviolet filter** with good color recognition: 3-1,2

Optical class: 1

# High Density Impact Resistant Lens protects against high velocity impacts

# **Premium Polycarbonate Lens** has excellent optical clarity for clear, undistorted vision

Resistance for medium energy impact: **B** 



## Face shield SHADE 5

- High-resolution
- Anti-scratch lens
- No distortion of the vision
- High light transmittance
- Good wear resistance



**Shade 5 IR Lens** provides infrared light protecton for grinding, brazing or cutting applications

## **Advanced Headgear**

- Adjustable headband
- Multi-axis headgear, and the rear is infinitely adjustable to meet the needs of different head circumferences (distance, tightness / looseness, top of head fit, rotation force and rotation range)
- Cushioned Headgear eliminates pressure points and evenly distributes face shield weight for all day comfort





## **Comfortable Headcovering**

- The fabric has good water resistance and flame retardancy, and good sealing performance, ensuring that a micro-positive pressure state is formed in face shield
- Flame Retardant Cotton and water resistance with super soft seal
- Easily replaceable via hook & loop seal

# EuropurePLUS™ CLEAR

#### POWERED AIR PURIFYING RESPIRATOR TH3 Class





Blower

The **EuropurePLUS™ CLEAR** modern design answer to impact protection with High-impact resistance.

The EuropurePLUS™ CLEAR combines face coverage with wide field of view. Air flow direction can be changed with built-in wind direction adjuster for optimum comfort.

Helmet weight: 792g

#### **GRINDING, BRAZING, OXYFUEL CUTTING**



#### What's Included

- EuropurePLUS™ CLEAR with Powered Air purifying Respirator
- 1 pc Pre-Filter
- 1 pc P3 Filter
- Lithium Ion Battery
- 1 pc Spark Screen
- Battery Charger
- Hose with Cover
- Padded Belt
- Headcovering
- Shoulder Straps
- Airflow Indicator
- Duffle Bag



## Face shield CLEAR

- Clear Polycarbonate
- Anti-scratch lens
- High-resolution clear vision
- No distortion of the vision
- High light transmittance
- Enhanced protection High density clear polycarbonate lens
- Good wear resistance



## Lens shade 5

- Can be added to the transparent visor
- High-intensity visor
- Against UV/ IR radiation



## HEAD **PROTECTION**

- **High-impact resistance**
- Compact shape
- Balanced center of gravity
- Protection against droplets and splashes of liquids: 3
- Protection against molten metals and hot solids: 9
- Resistance to medium energy impact : B
- Resistance to high speed particles at extremes of temperature: T

- Shock absorption capacity up to 5 kN
- **Penetration** resistance
- **Flame** resistance
- Chinstrap resistance up to 25 daN
- Resistance to **penetration at extreme** temperatures (low and high): Resistance to the risks of penetration at extreme temperatures, whether very cold or extremely hot

EuropurePLUS<sup>™</sup> CLEAR

- Resistance to **lateral deformation**
- Resistance to **molten metal splashes**



## **Advanced Headgear**

- Adjustable headband
- Multi-axis headgear, and the rear is infinitely adjustable to meet the needs of different head circumferences (distance, tightness / looseness, top of head fit, rotation force and rotation range)
- Cushioned Headgear eliminates pressure points and evenly distributes face shield weight for all day comfort



VERTICAL POSITION LOCK





## **Comfortable Headcovering**

- The fabric has good water resistance and flame retardancy, and good sealing performance, ensuring that a micro-positive pressure state is formed in face shield
- Flame Retardant Cotton and water resistance with super soft seal
- Easily replaceable via hook & loop seal

#### **EuropurePLUS™ BLOWER**

## **EuropurePLUS™ BLOWER**

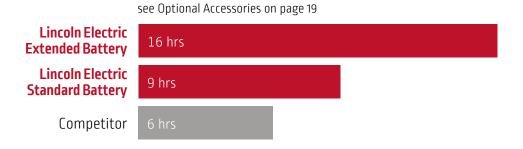


## Superior Battery Life<sup>1</sup>

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.





#### **EuropurePLUS<sup>™</sup> BLOWER**

## **BLOWER Specification**

Air flour rate	Low speed: 170+ lpm(6+cfm)
Air flow rate	High speed: 210+ lpm(7.4+cfm)
Powered by	Battery type: Rechargeable Li-ion Battery (More effective)
	Battery duration: 9 hours (Standard battery, 170+lpm) 5-6 hours (Standard battery, 210+lpm)
Battery	Battery charge time: 1 hour (Standard battery)
	Battery life: 550 charges
	Filter efficiency: ≥99.97%
Filter	Offering particulate protection from dust and welding fume hazards. For use with all welding applications.
Operating Temp.	Visible, Audible and Vibrate alarms to ensure safety.
	-5 °C ~ +55 °C (23 °F ~ 131 °F)
Storing Temp.	-10 °C ~ +55 °C (14 °F ~ 131 °F)
Operating Relative Humidity	< 90%
Storage Relative Humidity	< 85%
Head Covering	FR Flame Retardant
Weight	2.66 kg (mask + air flow system)
PAPR Certification	EN 12941 TH3 P R SL
Warranty - Blower Assembly	3 Years
Warranty - Helmet Auto Darkening Lens	2 Years — EUROPLUS CLEAR & EUROPLUS LE FACE SHIELD 3 Years — EUROPLUS 5500 LS

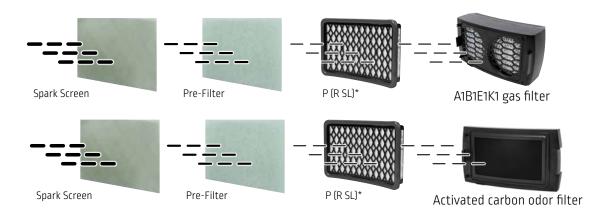
## **Multi-Component Filter System**

## **TDS Filter**

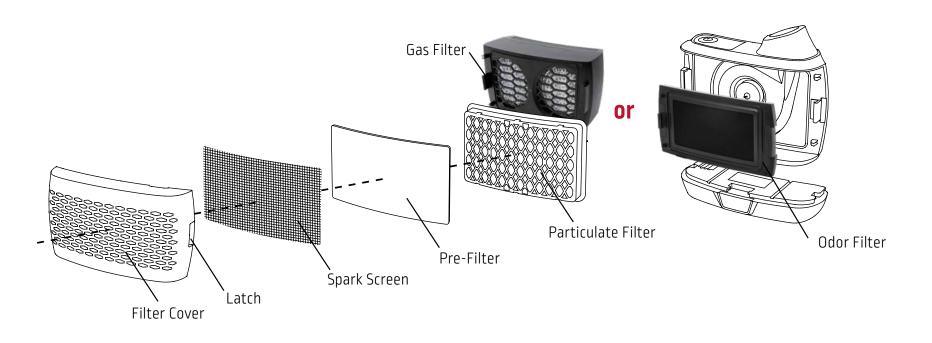
#### Filter Combination:

The EuropurePLUS™ blower unit can only accommodate 2 filters. Please install all the filter components according to the image.

- P3 Particle filter + A1B1E1K1 Gas filter
- P3 Particle filter + Activated carbon odor filter



\* Particulates (R=replaceable, SL=test against sodium chloride and paraffin oil)



## **Filter specification**



	Odor Filter	P3 Particle Filter	Gas Filter		
ltem	WP403676-36	WP403676-17	WP403676-30		
Suitable PAPR		EuropurePLUS™			
Protection against	Eliminates odor when not using gas filter	Solid and liquid particles (including those containing oil), dusts, mists, and fumes from sanding, welding, grinding, cutting, drilling metal, mist droplets from spraying and organic vapors and gases	Organic and inorganic acidic ammonia gas		
Weight	138g	105g	829g		
Size	208 x 117 x 30 mm	175 x 112 x 35 mm	223 x 117 x 85 mm		
Filter box type	Activated Carbon Odor filter	P3 Particle Filter	A1B1E1K1		
Application operation	Assembl	y, facility maintenance, grinding, machine operation, welding,	painting		
Application industry		Chemicals, mining, oil, natural gas			
Usage instructions	The odor filter must always be used with the Particle filter, pre-filter and spark screen. Do not use the odor filter alone.	P3 Particle filter permits a filtration efficiency of 99,997%	This gas filter must be always used together with EUROPURE PLUS 5500LS particle filter.		
Warning	Read the instruction before use. The filter assembly must be installed properly as per instruction guide. Cannot be cleaned. Replace with new ones if damaged or dirty.				

#### Markings on the Equipment

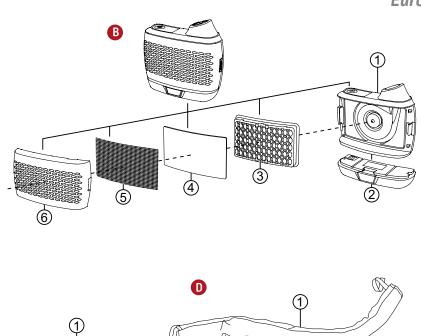
Marking	Odor filter (Carbon)	P (R SL)	A1B1E1K1	
Part No.	WP403676-36	WP403676-17 (individually) or WP403676-32 (pack of 5 pcs)	WP403676-30	
Color Code		White	Brown / Grey /Yellow / Green	
Protection Against	Odor	Particulates (R=replaceable, SL=test against sodium chloride and paraffin oil)	Organic gases / Inorganic gases / Sulfur dioxide,acidic gases / Ammonia and organic ammonia derivatives	
		CE2849	CE2849	
Certification		The particle filter are marked according to EN12941:1998. UKCA0194	The gas filter are marked according to EN12941:1998. UKCA0194	

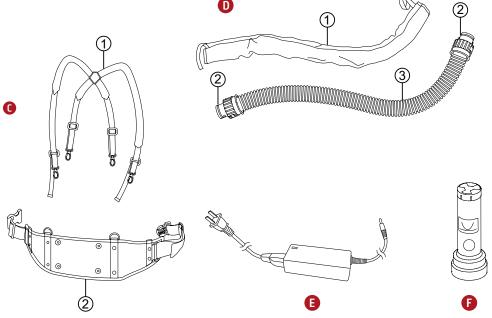
### **EuropurePLUS<sup>™</sup> BLOWER**

## **EuropurePLUS™ BLOWER**

To order		
Description	Qty/pk	Reference
B Blower		
<b>1</b> Body	1	WP403676-16
Fast-charging standard battery	1	WP403676-1
3 Particle filter (P3 filter)*	1	WP403676-17
Particle filter (P3 filter)*	5	WP403676-32
Pre-filter	5	WP403676-18
5 Spark screen	10	WP403676-19
6 Filter cover	1	WP403676-20
Gas filter	1	WP403676-21
Gas filter A1B1E1K1*	1	WP403676-30
Fast charging extended battery*	1	WP403676-2
Odor filter*	1	WP403676-36
Multi operator battery charger*	1	WP403676-39
( Wears		
1 Shoulder strap	1	WP403676-22
Belt cushion (Including screws & washers)	1	WP403676-23
Blower backpack*	1	WP403676-31
Adjustable leather belt assembly*	1	WP403676-29
D Hose		
1) Hose cover	1	WP403676-24
2 O-ring	2	WP403676-25
3 Hose (Including O-ring)	1	WP403676-26
Quick connection hose (EuropurePLUS™ CLEAR)	1	WP403678-13
Quick-connection hose extension*	1	WP403676-38
Battery Charger		
Fast-charging battery charger	1	WP403676-3
Airflow Indicator		
Airflow indicator EuropurePLUS™ 5500 LS + faceshield	1	WP403676-27
Airflow indicator EuropurePLUS™ CLEAR	1	WP403678-14
thers		
Duffle bag	1	WP403676-28

<sup>\*</sup> see Optional Accessories section



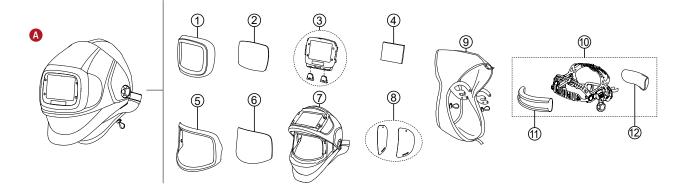


#### EuropurePLUS™

## **Complete Systems and Replacements Parts**

#### EuropurePLUS™ 5500 LS

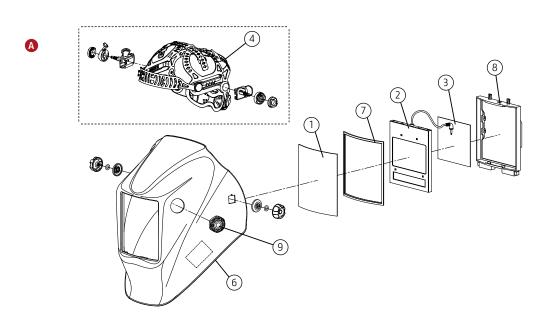
	To order		
	Description	Qty/pk	Reference
A	lelmet with Air Duct Assembly	1	WP403676-35
1	Front lens holder	1	WP403676-4
2	Outside cover lens (160.36 x 107.3 mm)	5	WP403676-5
3	ADF cardtrigde	1	WP403676-6
<u>4</u>	Inside cover lens (107 x 80 mm)	5	WP403676-7
	Inside cover lens (112.2 x 80 mm, for new ADF)	5	WP403676-41
(5)	Grind lens holder	1	WP403676-8
6	Grind lens (anti-fog, 223 x 129.8 mm)	5	WP403676-9
7	Helmet shell with air duct	1	WP403676-10
8	Side lens cover	2	WP403676-11
9	Face seal	1	WP403676-12
10	Headgear (Including sweatband & soft pad)	1	WP403676-13
11)	Sweatband	2	WP403676-14
12	Soft pad	2	WP403676-15
	Velcro	1	WP403676-40
	Spring	1	WP403676-37



#### EuropurePLUS™ WAVE 3.0 LS

	To order		
	Description	Qty/pk	Reference
A H	elmet	1	XXX
1	Outside Cover lens (133.0 x 114.0 x 1.0 mm)	5	KP2898-1
2	ADF cartridge	1	KPW4039-2
3	Inside Cover Lens (98.5x66.5x1.0 mm)	5	KP2931-1
4	Headgear Assembly (including sweatband)	1	KPW4039-1
(5)	Sweatband*	2	KP2930-1
6	Replacement Shell BLACK (VH11)	1	KPW4039-3
7	Outside clear lens seal	1	S27978-32
8	ADF holder	1	S27978-153
9	Grind button assembly	1	KP4562-1
10	CR2450 replacement battery*	1	KP4491-1

<sup>\*</sup> no illustrations

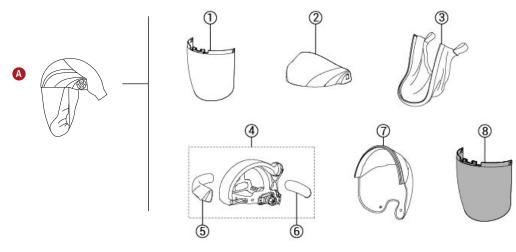


### $\textit{EuropurePLUS}^{\text{TM}}$

## **Complete Systems and Replacements Parts**

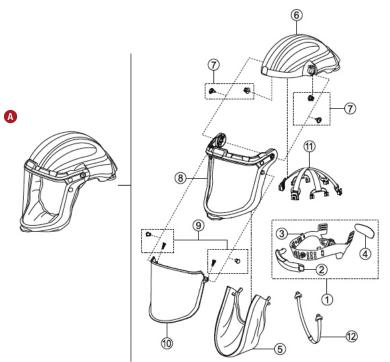
#### **EuropurePLUS™ LE FACESHIELD**

To order		
Description	Qty/pk	Reference
A Helmet with Air Duct Assembly	1	WP403679-15
1 LE clear lens	1	WP403679-1
2 LE shell	1	WP403679-3
3 LE sleeve	1	WP403679-4
4 LE Headgear	1	WP403679-5
5 Sweatband	1	WP403679-6
6 Soft pad	2	WP403679-7
7 LE Extended hood	3	WP403679-8
8 LE lens shade 5	4	WP403679-2



#### **EuropurePLUS™ CLEAR**

	To order		
	Description	Qty/pk	Reference
A	Helmet with Air Duct Assembly	1	WP403678-15
1	Headgear	1	WP403678-1
2	Sweatband	1	WP403678-2
3	Head suspension	1	WP403678-3
4	Soft pad	1	WP403678-4
<u>(5)</u>	Face seal	1	WP403678-5
6	Headtop	1	WP403678-6
7	Headtop buttons	1	WP403678-7
8	Visor frame assembly	1	WP403678-8
9	Visor frame buttons	1	WP403678-9
10	Protective visor	1	WP403678-10
11	Ribbon	1	WP403678-11
12	Chin strap	1	WP403678-12
	Small lens shade 5	1	WP403678-16
	Big lens shade 5	1	WP403678-17



# **EuropurePLUS™ OPTIONAL ACCESSORIES**

EuropurePLUS™



#### **Fast-charging Extended battery**

#### Features:

◆ Battery type : Rechargeable Li-ion Battery

◆ Battery duration : 15 hours (Low speed : 170+ lpm)

9 hours (High speed : 210+ lpm)

**ODOR FILTER** 

WP403676-36

◆ Battery charge time : 2 hours

◆ Battery life: 550 charges

FAST-CHARGING EXTENDED BATTERY

WP403676-2

Lincoln Electric Extended Battery

Lincoln Electric Standard Battery 16 hrs

9 hrs

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



FILTER TYPE: A1B1E1K1

WP403676-30

P3 PARTICLE FILTER

WP403676-17

Pack of 5 pcs. WP403676-32

#### Multi-Operator PAPR Battery Charger

- ◆ Charge 4 Batteries LITHIUM ION at one time
- ◆ Charges in 3 hours
- ◆ Compatible with Standard and extended Battery
- ◆ BATTERY CHARGER INDICATOR: SWITCHING LED (RED CHARGING, GREEN CHARGING COMPLETE)

◆ Norm : CE 62368





WP403676-38

## **EuropurePLUS™ OPTIONAL ACCESSORIES**

#### **Adjustable Leather Belt Assembly**

Adjustable leather belt assembly secures EUROPURE PLUS 5500 LS air purifying blower to operators waist.

#### Features:

- ◆ Cushioned backpad for enhanced comfort
- ◆ Leather belt offers excellent durability against heat, spatter, sparks and more
- ◆ Slide adjustable fit allows operator to adjust tightness



# COMPILE **YOUR SET**

#### Backpack

Replaces belt and shoulder straps to improve weight distribution and comfort.











#### 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 enquiries 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.

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