



# Optrel® PAPR for Welding and Grinding



**WE KNOW WHAT'S AT STAKE.**

# Advanced technology from names you trust.

Welcome to the forefront of welding safety innovation. MSA is pleased to introduce the latest addition to our product line – Optrel® Helix Pure Air and Clearmaxx Air Powered Air Purifying Respirators (PAPR). Optrel is a leading global innovator in welding safety that shares MSA's steadfast commitments to safety, durability and innovation.



## Helix Pure Air PAPR

The Helix Pure Air Welding Helmet features an innovative slide-up design to seamlessly switch from welding to grinding that ensures balance, minimizes weight and allows for overhead welding. This helmet is built for the toughest conditions and includes Optrel's signature features including the large Panoramic XXL field of view, enabled by patented nose cut-out design. Exclusive ShadeTronic® and Fadetronic technologies which automatically adjusts shade level based on the work at hand and allows for easier transitions from welding to light state. The Helix CLT features Crystal Lens Technology that provides unmatched vision and clarity in the light state and provides a versatile shade range of 4-12. The Helix Quattro can be adapted to accommodate up to shade 14 for maximum protection.

## Clearmaxx Air PAPR

The Clearmaxx PAPR Grinding Hood combines an unparalleled clear view of your workspace and respiratory protection for optimal safety. Adjustable air flow ensures user comfort and reduces dry eyes using a rotary switch for customizable airflow. Paired with the Optrel e3000X PAPR system and mountain breeze filter, it adapts to various tasks effortlessly, including efficient plasma cutting. The lightweight design and ergonomic fit redefines comfort standards for extended wear.



## e3000X PAPR System

Powering this product lineup is the e3000X PAPR system. NIOSH-approved, it offers 3 blower speeds and alerts for low flow and battery levels. With an integrated airflow sensor, 3-level airflow (170-240 liters per minute) is achieved automatically or can be adjusted for maximum user control. Rechargeable lithium-ion battery achieves up to 14 hours of runtime on a single charge and is designed to last 500 charge cycles. Modular respiratory protection includes a type HE/HEPA filter with spark guard, with optional Mountain Breeze nuisance level odor and ozone filtration. ATEX approved for safety and reliability in a multitude of environments.



# Ordering Information

## PAPR Kits

- 10246307 Helix Pure Air PAPR Kit - Helix CLT w/Carry Bag
- 10246306 Clearmaxx Air PAPR Kit - Clearmaxx w/Carry Bag
- 10246324 Optrel e3000X PAPR Kit - No Headgear

## PAPR Headgear

- 10246347 Helix Pure Air - Helix CLT
- 10246346 Helix Pure Air - Helix Quattro
- 10246345 Helix Pure Air - Helix CLT with Hard Cap
- 10246344 Helix Pure Air - Helix Quattro with Hard Cap
- 10246343 Clearmaxx Air

## PAPR Filters and Cartridges

- 10246314 Type HE Filter for e3000X PAPR
- 10246311 e3000X Pre Filter (set of 50)
- 10246312 Mountain Breeze (MB) Nuisance Level Starter Kit
- 10246313 MB Nuisance Level Filter Replacement - Set of 50
- 10246315 Spark Protector
- 10250047 Combination Gas Filter for e3000X PAPR- EN A1B1E1

## Accessories and Replacement Parts

- |   |   |
|---|---|
| 10246309 Leather Chest Protector                          | 10246317 e3000X Breathing Tube                              |
| 10246310 Leather Head and Neck Protector                  | 10246322 Protective Sleeve - Breathing Tube                 |
| 10246320 Shoulder Harness e3000X                          | 10246319 Breathing Tube Clip                                |
| 10246325 Inside Cover Lens - Helix                        | 10246316 Clearmaxx Face Seal                                |
| 10246326 Clearmaxx Replacement Lens, 10 pk                | 10246338 Optrel PAPR Carry Bag                              |
| 10246327 Tear away cover lens - Clearmaxx, 10 pk          | 10246318 Filter Gasket - Sealing Kit                        |
| 10246328 Clearmaxx - Shade 5 Lens, 2 Pack                 | 10246342 Green Filter Cover                                 |
| 10246329 Clearmaxx - Shade 3 Lens, 2 Pack                 | 10246321 e3000X Battery Charger                             |
| 10246330 Magnifying Lens - Helix 1.0                      | 10246341 Multi Bay Charger for e3000X PAPR                  |
| 10246331 Magnifying Lens - Helix 1.5                      | 10246323 Replacement Battery - e3000X PAPR                  |
| 10246332 Magnifying Lens - Helix 2.0                      | 10246340 Helix CLT Welding Helmet - Welding Only            |
| 10246333 Magnifying Lens - Helix 2.5                      | 10246339 Helix Quattro Welding Helmet - Welding Only        |
| 10246334 Inside Cover Lens +1 shade level - Helix, 5 Pack | 10246308 Clearmaxx Grinding Shield - Shield Only            |
| 10246335 Front Cover Lens - Helix, 5 Pack                 | 10246350 Helix Pure Air Hard Cap Insert                     |
| 10246336 Helix Nose Pad, 2 Pack                           | 10250046 Faceseal and shroud for Helix Pure Air w/ Hard Cap |
| 10246348 Isofit® Suspension Headgear for PAPR             | 10253598 Faceseal for Helix Pure Air w/o Hard Cap           |
| 10246337 Isofit® Suspension Replacement Pads, 5 pk        |   |



Clearmaxx Air PAPR Kit  
PN 10246306



Helix Pure Air PAPR Kit  
10246307



Clearmaxx Air  
PN 10246343



Helix Pure Air - Helix CLT  
PN 10246347



Inside Cover Lens - Helix  
PN 10246325



Magnifying Lens - Helix 2.5  
PN 10246333



Clearmaxx Shade 5 Lens  
PN 10246328



Front Cover Lens - Helix  
PN 10246335

Optrel service and warranty information <https://optrel.us/msa-product-warranty/>

## Key Features – Optrel Helix Pure Air



### “Slide Up” Grinding Mode

Innovative internal slide-up technology allows the user to seamlessly go from welding to grinding without removing the helmet or changing the profile of the welding hood. This allows for better access in tight spaces and reduces neck strain for the user.



### Patented Nose Cut Out

Ensures a large, panoramic field of view and eliminates tunnel view.



### Fadetronic

User adjustable delay allowing up to 2 seconds in transition from welding to the light state, reduces eye strain and mitigates the effects of flash and afterglow when welding is completed.



### Shadetronic

Automatically adapts shade level based on the intensity of the welding arc, assuring the user has the perfect shade according to changing light conditions.



### Crystal Lens Technology

See what’s happening before, during and after welding – with your hood on! Optrel’s Crystal Lens Technology offers a clear, unclouded view of the weld pool with no green tint. A light state of shade 2 is best in class providing unmatched clarity.



### Overhead Welding

External lens curvature deflects spatter and sparks, allowing for overhead welding.

Headgear Model	Helix Pure Air CLT	Helix Pure Air Quattro
Dark State (Shade Levels)	4-12	4-13, 14 with SN+1 filter
Light State	2.0	3.0, 4.0 with SN+1 Filter
EN 379 Clarity Ratings	1/1/1/2	1/1/1/1
# of Sensors	5	5
Power Supply	Solar Cells, Li-Polymer, USB rechargeable battery, 1300 hour run time	Solar Cells, Li-Polymer, USB rechargeable battery, 1300 hour run time
Crystal Lens Technology	✓	✗
Fadetronic	✓	✓
Shadetronic	✓	✓
Slide-Up Grinding Mode	✓	✓
Overhead Welding	✓	✓

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