

**e3000**

**optrel**  
swiss made 



**Buckle up & take a deep breath!**

# e3000



## e3000 Powered Air Purifying Respirator

### Top protection class

Tough environmental conditions such as smoke, dust and vapours require a highly efficient air purifying respirator system to ensure the welder's health and safety at all times. Combined with any of the compatible optrel helmets, the e3000 complies with the top protection class TH3 according to EN 12941.



### Highest comfort

The three air flow settings from 150 to 250 nl/min. in combination with the helmets provide a comfortable air distribution that is individually adjustable. The highest setting of 250 nl/min. cools down the welder even in the hottest conditions, thus increasing concentration and reducing fatigue.



**«Top protection class and highest comfort levels keep the welders healthy and make them more productive!»**

### Quick operational readiness

Safety regulations mandate that the air flow has to be checked before every PAPR use. Compared to other respiratory systems, which require a manual air flow check at start-up, the e3000 automatically checks air flow, decreasing the amount of time a welder needs to monitor the start-up.



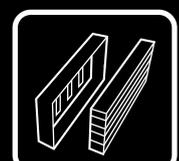
### Increased productivity

An efficient battery management system with operating times of up to 20 hours provides an uninterrupted workflow over two shifts, thus increasing the welder's effective welding time.



### Lower operating costs

The filter system consists of a pre- and particle filter. The large particle filter reduces the filter's clogging rate. Together with the sophisticated filter changing concept, this helps customers to optimise their operating costs.





## Technical Data

### Description

PAPR system with integrated air flow control and adjustable three level air flow.

**Protection factor:** Protection level TH3 (EN 12941)

### Blower unit

**Flow rates:** Level 1: min. 150 nl/min\*  
 Level 2: min. 200 nl/min\*  
 Level 3: min. 250 nl/min\*  
 \*all levels tested and calibrated at standard conditions: 20°C at sea level (1013,25 hPa).

**Fuse:** Electronic fuse

**Noise:** max. 70db

**Dimensions:** 222x213x92.6mm (LxWxH)

**Weight:** 1560g (incl. filter, belt and battery)

**Colour:** green or blue

**Filter Type:** TH3P R SL Filter for TH3P System (EU)

**Hose lenght:** 1160 mm (elastic up to 1300mm with protection sleeve)

**Standards:** EN 12941:1998/A2:2008, AS/NZS 1716:2012

**Notified body / Lic. No. :** CE 1024, SAI Global

**Scope of delivery:** Blower unit with hose, protection sleeve, TH3P R SL filter, battery fabric belt, charger, instruction manual.

**Warranty (Blower):** 2 years from date of purchase for manufacturing and material defects, no warranty for battery.

## Spare Parts

Ref. no.	Description	Ref. no.	Description
4088.100	TH3P Masterfilter	4551.012	Battery e3000 Longlife
4088.101	Prefilter e3000	4551.010	Charger e3000 with four plugs EU, UK, AUS, US
4088.102	Spark protector e3000	4551.031	e3000 filter cover
4551.020	Air hose, incl. protective sleeve black	4551.050	Hard top case optrel e3000 black
4551.021	Protective sleeve black	9410.044.00	e3000 Bag
4551.011	Battery e3000 Standard		

# e684x1



e684 / e3000 PAPR system*	Ref. no.
e3000 green standard & e684	4550.200.G
e3000 green standard & e684 & Hard hat	4550.250.G

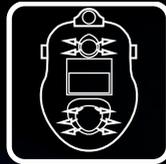
e684 upgrade Kits	Ref. no.
e3000 green standard & upgrade Kit e684	4542.684.G
e3000 green standard & upgrade Kit e684 & Hard hat	4543.684.G

## e684 Fully automatic welding helmet in HD quality

*«Do not settle for anything less!»*

### Convenient air circulation

The inner mask's sophisticated air duct system provides a pleasant sensation of air circulation in the mouth and nose area. The added option of supplying air to the forehead creates a comfortable cooling effect even under extreme conditions.



### Maximum hygiene

The face seal can be removed and inserted swiftly, making cleaning and exchanging easy. This ensures best hygiene and constant compliance with the specified protection class. This swift handling minimises downtime compared to other commercially available systems that are complicated to replace.



### Freedom of movement

The swivel coupling makes it easy to lock and release the hose on the fresh air supply helmet with only one hand. It ensures that the hose moves freely with the welder's body movements and does not become twisted.



### Full expandability

The e684 offers numerous options to ensure compliance with all personal protective equipment (PPE) requirements, including hard hat adapters, neck and head protectors, the e684 is adaptable to a variety of working situations, making it unnecessary to buy new equipment.



### Strengths of the e684 ADF



Optical classes



Autopilot



Twilight effect



Heat reflector

\* All versions are also available with blue blower (4550.000 instead of 4550.000.G).

\* Every Ref. no. is available as a long-life battery version. The respective reference no. are designated with an additional -L (e.g. 4550.000.G-L for green and 4550.000-L for blue).

# expert e600 helmet series

## Superior performance

### e680

The outstanding characteristic to select between SL 5 to SL 13 can be used with a very wide range of welding methods and amperages without any restrictions.



#### e680 / e3000 PAPR system\*

#### Ref. no.

e3000 green standard & e680 dark blue	4550.000.G
e3000 green standard & e680 snow white	4550.001.G
e3000 green standard & e680 cosmic green	4550.002.G
e3000 green standard & e680 dark blue & Hard hat	4550.150.G
e3000 green standard & e680 snow white & Hard hat	4550.151.G
e3000 green standard & e680 cos. green & Hard hat	4550.152.G

### e670

Unique sensor technology allows the darkening filter to automatically select the shade level and continually adapts this to the relevant application and arc intensity during welding.



#### e670 / e3000 PAPR system\*

#### Ref. no.

e3000 green standard & e670 dark blue	4560.000.G
e3000 green standard & e670 snow white	4560.001.G
e3000 green standard & e670 cosmic green	4560.002.G
e3000 green standard & e670 dark blue & Hard hat	4560.150.G
e3000 green standard & e670 snow white & Hard hat	4560.151.G
e3000 green standard & e670 cos. green & Hard hat	4560.152.G

### e650

In addition to the infinitely variable shade level (SL 9-13), the helmet offers a continuously variable sensitivity control and opening delay function. All functions can be selected and adjusted from outside the helmet and therefore guarantee maximum comfort and efficiency.



#### e650 / e3000 PAPR system\*

#### Ref. no.

e3000 green standard & e650 black unpainted	4570.000.G
e3000 green standard & e650 black unp. & Hard hat	4570.150.G

### e640

Thanks to the extremely high quality filter and use of the expert helmet shell, the welder benefits the standard SL 10 and SL 11 function plus comfort and protection benefits.



#### e640 / e3000 PAPR system\*

#### Ref. no.

e3000 green standard & e640 black unpainted	4580.000.G
e3000 green standard & e640 black unp. & Hard hat	4580.150.G

\* All versions are also available with blue blower (4550.000 instead of 4550.000.G).

\* Every Ref. no. is available as a long-life battery version. The respective reference no. are designated with an additional -L (e.g. 4550.000.G-L for green and 4550.000-L for blue).

# Flip-up helmets for welding and grinding jobs



## p330

Combined welding and grinding helmet with a flip-up auto darkening filter and a clear protective visor.

The p330 comes in protection levels SL 3/10 and SL 3/11. Its mechanical resistance (Class B under EN 175) guarantees a high level of protection for all welding and grinding processes.



Freedom of movement



Full expandability



Flip-up auto darkening filter with clear protective visor (108x68mm).

### p330 / e3000 PAPR system\*

### Ref. no.

e3000 green standard & p330-10 flip up unpainted	4510.000.G
e3000 green standard & p330-11 flip up unpainted	4510.001.G
e3000 green standard & p330-10 flip up unpainted & Hard hat	4510.004.G
e3000 green standard & p330-11 flip up unpainted & Hard hat	4510.005.G



## b630

Combined welding and grinding helmet with a passive glass filter and a clear protective visor.

The b630 comes with an SL 11 passive glass filter as standard. Its mechanical resistance (Class B under EN 175) guarantees a high level of protection for all welding and grinding processes.



Freedom of movement



Full expandability



Passive glass filter with clear protective visor (108x68mm).

### b630 / e3000 PAPR system\*

### Ref. no.

e3000 green standard & b630-11 flip up unpainted	4590.100.G
e3000 green standard & b630-11 flip up unpainted & Hard hat	4590.102.G

\* All versions are also available with blue blower (4550.000 instead of 4550.000.G).

\* Every Ref. no. is available as a long-life battery version. The respective reference no. are designated with an additional -L (e.g. 4550.000.G-L for green and 4550.000-L for blue).

# g300

grinding visor



## A panoramic view while grinding!

*«The perfect addition to your welding helmet to create an even more pleasant and efficient working environment!»*

### 180° panoramic view

The g300's large clear concave protective visor provides a 180° panoramic view. The visor can be easily and quickly changed as needed. Plus, the visor is extremely lightweight, weighing only 520g.



### Top protection class

In combination with the optrel e3000, the g300 complies with the top safety class TH3 as required by EN 12941.



#### g300 / e3000 PAPER system\*

#### Ref. no.

e3000 green standard & g300

4900.200.G

#### Combination-Package

#### Ref. no.

e3000 green standard & e684 & g300

4550.220.G

\* All versions are also available with blue blower (4550.000 instead of 4550.000.G).

\* Every Ref. no. is available as a long-life battery version. The respective reference no. are designated with an additional -L (e.g. 4550.000.G-L for green and 4550.000-L for blue).

# The perfect PAPR system for everyone

1. Choose your optrel PAPR helmet (detailed information on pages 4-7).
2. Choose your required version (Standard or Standard with Hard hat).

Every Ref. no. is available as a long-life battery version. The respective reference no. are designated with an additional -L).

1. optrel PAPR helmet	e684	e680	e670	e650	e640
					
<b>2. Standard blower unit</b>	<b>Green blower + e684</b> 4550.200.G  <b>Blue blower + e684</b> 4550.200	<b>Green blower + e680</b> dark blue 4550.000.G snow white 4550.001.G cosmic green 4550.002.G  <b>Blue blower + e680</b> dark blue 4550.000 snow white 4550.001 cosmic green 4550.002	<b>Green blower + e670</b> dark blue 4560.000.G snow white 4560.001.G cosmic green 4560.002.G  <b>Blue blower + e670</b> dark blue 4560.000 snow white 4560.001 cosmic green 4560.002	<b>Green blower + e650</b> 4570.000.G  <b>Blue blower + e650</b> 4570.000	<b>Green blower + e640</b> 4580.000.G  <b>Blue blower + e640</b> 4580.000
<b>2. Standard blower unit with Hard hat</b>	<b>Green blower + e684</b> 4550.250.G  <b>Blue blower + e684</b> 4550.250	<b>Green blower + e680</b> dark blue 4550.150.G snow white 4550.151.G cosmic green 4550.152.G  <b>Blue blower + e680</b> dark blue 4550.150 snow white 4550.151 cosmic green 4550.152	<b>Green blower + e670</b> dark blue 4560.150.G snow white 4560.151.G cosmic green 4560.152.G  <b>Blue blower + e670</b> dark blue 4560.150 snow white 4560.151 cosmic green 4560.152	<b>Green blower + e650</b> 4570.150.G  <b>Blue blower + e650</b> 4570.150	<b>Green blower + e640</b> 4580.150.G  <b>Blue blower + e640</b> 4580.150
<b>Protection class EN 12941</b>	TH3	TH3	TH3	TH3	TH3
<b>Shade levels SL</b>	4/5 - 13	4/5 - 13	4/9 - 13	4/9 - 13	10 - 11
<b>Optical classes (EN 379)</b>	1/1/1/1	1/1/1/2	1/1/1/2	1/1/1/2	1/1/1/2
<b>Autopilot</b>	Yes	No	Yes	No	No
<b>Twilight effect</b>	Yes	No	No	No	No
<b>Grind mode</b>	Yes	Yes	Yes	Yes	No
<b>Modular spare parts</b>	Chest protection leather Head & neck protection leather Magnifying lens Coloured inside cover lenses Comfort head band Cotton sweat band PAPR upgrade Kit	Chest protection leather Head & neck protection leather Magnifying lens Coloured inside cover lenses Comfort head band Cotton sweat band PAPR upgrade Kit	Chest protection leather Head & neck protection leather Magnifying lens Coloured inside cover lenses Comfort head band Cotton sweat band PAPR upgrade Kit	Chest protection leather Head & neck protection leather Magnifying lens Coloured inside cover lenses Comfort head band Cotton sweat band	Chest protection leather Head & neck protection leather Magnifying lens Coloured inside cover lenses Comfort head band Cotton sweat band
1. optrel PAPR helmet	p330	b630	g300	e684+g300	
					
<b>2. Standart blower unit</b>	<b>Green blower + p330-10</b> 4510.000.G <b>Green blower + p330-11</b> 4510.001.G  <b>Blue blower + p330-10</b> 4510.000 <b>Blue blower + p330-11</b> 4510.001	<b>Green blower + b630</b> 4590.100.G  <b>Blue blower + b630</b> 4590.100	<b>Green blower + g300</b> 4900.200.G  <b>Blue blower + g300</b> 4900.200	<b>Green blower + e684 + g300</b> 4550.220.G  <b>Blue blower + e684 + g300</b> 4550.220	
<b>2. Standard blower unit with Hard hat</b>	<b>Green blower + p330-10</b> 4510.004.G <b>Green blower + p330-11</b> 4510.005.G  <b>Blue blower + p330-10</b> 4510.004 <b>Blue blower + p330-11</b> 4510.005	<b>Green blower + b630</b> 4590.102.G  <b>Blue blower + b630</b> 4590.102	N/A		
<b>Protection class EN 12941</b>	TH3	TH3	TH3		
<b>Shade levels SL</b>	10 - 11	11	None		
<b>Optical classes (EN 379)</b>	N/A	N/A	N/A		
<b>Autopilot</b>	No	No	No		
<b>Twilight effect</b>	No	No	No		
<b>Grind mode</b>	Yes	Yes	Yes		
<b>Modular spare parts</b>	Chest protection leather Head & neck protection leather Magnifying lens Coloured inside cover lenses Comfort head band Cotton sweat band	Chest protection leather Head & neck protection leather Magnifying lens Coloured inside cover lenses Comfort head band Cotton sweat band	Head band Cotton sweat band Face seal Lens with shade level 5		

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