

# SWISS AIR

Safety never felt so  
comfortable.



reddot winner 2021



SEE  
WHAT YOU  
CAN DO

# The revolutionary TH3 blower respiratory protection system from optrel.

Welcome to the Swiss Alps.  
Welcome to optrel swiss air.

Breathing means life. The optrel swiss air breathing protection system brings clean breathing air into your environment and lets you breathe as freely as you can otherwise only enjoy outdoors in nature.

Many workplaces and public spaces generate pollutant emissions such as smoke, soot particles, particulate matter, or viruses that can enter the lungs through the nose, throat, and trachea, causing asthma, chronic cough, bronchitis, or other respiratory diseases, including lung cancer. With the optrel swiss air respiratory protection system you enjoy fresh air, completely independent of your activity and your other protective equipment. It lets you perform hazardous work independently and freely.

The core element of the optrel swiss air blower respiratory protection system is a ventilated half-mask that completely

covers the mouth and nose area and supplies it with purified air. A breathing space is created in the mouth and nose area which, thanks to positive pressure, supports the user in breathing and eliminates tiring breathing resistance.

Made of high-tech fabric, the half-mask is designed to provide excellent individual fit thanks to a freely adjustable headband. This concept eliminates the need for time-consuming fit tests, which are common with conventional half-masks.

The clean air is delivered via a Y-hose from a miniaturized blower system, which is conveniently attached to a carrying unit worn on the back. In this way, the user is supplied permanently via an "overpressure air system", which permanently protects the respiratory tract against contaminated air.

## Benefits

### Safety

- >> Guaranteed TH3 level protection for all employees.
- >> Easy and safe to use as no fit test is required.

### Health

- >> Permanent protection of the respiratory tract and lungs against pollutants in the air.
- >> Airways are protected from irreparable damage.

### Ergonomics

- >> Maximum freedom of movement.
- >> Prevention of pain in the neck and back area as the device only weighs 550 g.
- >> Free choice of suitable head and eye protection.

### Performance

- >> Increased performance thanks to clean air.
- >> Higher productivity due to elimination of forced breaks.
- >> Positive pressure system for active respiratory support.
- >> Optimum speech intelligibility with the mask in place.

### Cost savings

- >> For use in a variety of production areas.
- >> Reduced running costs by saving on the purchase, distribution and disposal of disposable masks.
- >> Reusable half-mask system.

optrel  
swiss made

# Fresh ex-works

Infinately adjustable headband for all sizes from XS to XL.

Y-hose with adjustable neck strap and flexible hose elements guide the air directly into the half-mask

Ventilated half-mask made of flame retardant material completely covers mouth and nose area. Positive pressure supports breathing and avoids wearing fatigue.

Shoulder carrying unit for ergonomically perfect weight distribution of the super-light filter system (only 550 g).

Blower unit with automatic airflow calibration and 14h high performance battery for an uninterrupted working day.

Powerful TH3 filter unit with innovative, ultra-flat design. Lightweight and comfortable to carry, highly efficient in use.

No passage for aerosols, smoke, particles or viruses.

# 99.8%

The metal spark arrester grid retains hot and burning particles.

A master filter of the very highest filter class TH3. Filters 99.8% of all pollutants from the air. No passage for aerosols, smoke, particles or viruses.

The pre-filter for rough job: filters larger particles from the breathing air.

Filter lid

48 mm

Doesn't let you down when things get busy. With only 48 mm thickness and ergonomically adapted to the back, you even can get through even the smallest openings.

With the optrel swiss air fresh air system, you always have sufficient fresh air available. With breath-supporting technology and an ultra-flat and lightweight backpack design, you'll tire less, making it easier to complete demanding works and tasks.



No mask fit test required



Breath-supporting positive pressure principle



optrel swiss air meets the highest requirements for professional respiratory protection systems, the TH3 standard: 99.8% of all harmful particles, aerosols, vapours, smoke or even viruses are reliably filtered out of the breathing air.

## It's up to you.

From the central **Control Panel**, securely positioned on the chest section of the shoulder strap, you always have all functions under control:

- easy reading of filter and battery status
- continuous regulation of the airflow for maximum working comfort
- automatic altitude and temperature compensation



Display of the **charge status of the power battery** with up to 14 hours of continuous operating time.



**Dial knob** for easy and continuous control for your optimal airflow. Adjustable from 100 to 130 l/min.



Easy reading of the **current filter status** for maximum safety.



**Fully automatic compensation** for consistent airflow, regardless of temperature or altitude.



The optrel swiss air is ideally suited for use in welding and cutting operations in polluted and toxic environments.

The optrel swiss air half-mask gives you all the freedom you need. Whatever you're up to. Flexible to use and completely independent of the helmet system used.

The optrel swiss air can be used completely autonomously, allowing maximum versatility in combination with the appropriate manufacturer-independent work protection.

It can be used independently of the helmet or other equipment and is therefore the most versatile optrel respiratory protection system available.

Your personal  
declaration of  
independence.



Demolition / Construction /  
Waste Disposal / Recycling



The optrel swiss air system is also your ideal companion for construction and demolition work and other outdoor applications where unpleasant odors or dust are generated.

It can be used with almost any construction or industrial helmet, with an optrel weldcap® or even without a helmet at all.

Flexible.  
Versatile.  
Always with you.  
For all your tasks  
at hand.

Grinding / Metalworking / Woodworking /  
Industrial applications

swiss air permanently protects the respiratory tract and the lungs against pollutants in the air, regardless of the current activity in the working day. This prevents the development of diseases affecting the respiratory tract and lungs.

swiss air helps to reduce pain in the neck and back due to a significant reduction in the weight of head, face and eye protection systems. This makes a heavy combination helmets no longer necessary.

The ideal work companion.

Perfect  
breathing air.



Respiratory diseases such as asthma, "farmer lung" and other ailments, caused by dust and particles, can be easily prevented through the use of optrel swiss air respiratory protection.

The integrated high-performance battery enables an uninterrupted daily usage of up to 14 hours. This allows the swiss air to be used always and everywhere. Thanks to the lightweight design at only 550 g, it is also hardly noticeable. The only thing you will feel is the fresh, clear air.



Lightweight and flexible.

# Clean air for a clean environment.



The optrel swiss air also reliably protects you and your environment from bacteria and viruses during food production.

It increases the performance and endurance of users thanks to the positive pressure principle, which supports breathing and does not cause any breathing resistance.

Due to the elimination of time-consuming adaptation tests (no fit test) as well as massive savings on paper masks and their disposal, investment costs and running costs which are reduced.

## Technical data

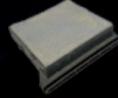
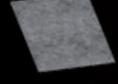
<b>Protection class</b>	TH3 (EN12941)
<b>Blower unit</b>	
<b>Flow rates</b>	Stage 1: min. 100 l/Min. Stage 2: min. 115 l/Min. Stage 3: min. 130 l/Min. All stages with automatic airflow control (stages are set directly on the blower and can be continuously adjusted via the control panel at the front).
<b>Material</b>	PA66 GF30
<b>Ventilator</b>	high-quality motor with ball bearings
<b>Fuse</b>	electronic
<b>Noise</b>	max. 70db (A)
<b>Alarm</b>	visual (with swiss air Control Panel) and audible for low / very low battery charge, clogged filter, no filter and low airflow Low battery charge: Alarm frequency 3,0 s (1,5 s on, 1,5 s off) Filter: Alarm frequency 0,5 s (0,25 s on, 0,25 s off)
<b>Dimensions</b>	(L x W x H): 250 x 170 x 50 mm
<b>Weight</b>	Blower unit 550 g / Total system 1.200 g

<b>Control Panel</b>	
<b>Reading and adjustment options</b>	– Overview of filter contamination and battery charge status – Continuous airflow control and on/off switch – Altitude and temperature compensation
<b>Connection</b>	Operating cable with a jack plug and cable protection

<b>Half-mask</b>	
<b>Material</b>	POM, tear-resistant textile (98 % polyester / 2 % polyurethane), flame-retardant Insert: polyurethane foam
<b>Valve</b>	Exhalation valve with silicone membrane

<b>Certifications</b>	
<b>Standards</b>	EN 12941 Europe: TH3; Australia: P3; AS/NZS 1716; EAC TP TC 019/2011
<b>Notified body</b>	CE 1024

Respiratory protection system	Art. No.	Respiratory protection system	Art. No.
 <b>swiss air blower respiratory protection system, black</b> , consisting of comfort half-mask, blower unit, hose connections, head and neck strap, shoulder carrying unit, control panel and charger. Incl. optrel backpack	4700.010	 <b>swiss air blower respiratory protection system, black</b> , consisting of comfort half-mask, blower unit, hose connections, head and neck strap, shoulder carrying unit and charger. Incl. optrel backpack	4700.005

Spare parts and accessories	Art. No.	Accessories	Art. No.
 <b>TH3 Particle filter for swiss air incl. prefilter</b>	4088.400	 Shoulder carrying unit swiss air, black	4556.030
 Pre-filter for swiss air (set of 50)	4088.410	 Filter lid swiss air, black	4556.090
 Spark protection grid swiss air (set of 2)	4088.420	 Battery 14h black for swiss air, rechargeable	4554.010
 Mouth-nose mask swiss air, black	4160.500	 USB charger for swiss air	4554.070
 Nose foam for mask swiss air	4160.530	 Extension for shoulder carrying unit swiss air, black	4556.035
 Y-air hose swiss air, black, incl. supply hose, head and neck strap	4556.010	 Headband for half-mask swiss air, black (set of 2)	5003.700
 Control Panel swiss air with cable and belt	4556.050		

Ready-to-Weld/Grind Packages	Art. No.	Ready-to-Weld/Grind Packages	Art. No.
 <b>Ready-to-Weld Package panoramaxx clt silver + swiss air</b> incl. half-mask & hose system, head & neck strap, blower unit, shoulder carrying unit, control unit, charger, bag	4600.010	 <b>Ready-to-Weld Package crystal2.0 + swiss air</b> incl. half-mask & hose system, head & neck strap, blower unit, shoulder carrying unit, control unit, charger, bag	4600.040
 <b>Ready-to-Weld Package panoramaxx quattro + swiss air</b> incl. half-mask & hose system, head & neck strap, blower unit, shoulder carrying unit, control unit, charger, bag	4600.020	 <b>Ready-to-Weld Package e684 + swiss air</b> incl. half-mask & hose system, head & neck strap, blower unit, shoulder carrying unit, control unit, charger, bag	4600.050
 <b>Ready-to-Weld Package panoramaxx2.5 + swiss air</b> incl. half-mask & hose system, head & neck strap, blower unit, shoulder carrying unit, control unit, charger, bag	4600.030	 <b>Ready-to-Grind Package clearmaxx + swiss air</b> incl. half-mask & hose system, head & neck strap, blower unit, shoulder carrying unit, control unit, charger, bag	4600.110

Trees are definitely the best suppliers of fresh air on our planet.

That's why for every single optrel swiss air respiratory protection system sold, optrel plants a tree as part of a global reforestation project, which more than offsets the swiss air's CO<sub>2</sub> footprint.

Because fresh air is important for all of us.



**climate  
neutral  
product**

For each product sold of this type, optrel plants one tree and neutralizes the carbon footprint of the product.

optrel supports Treellionaires. As a Treellionaire, you are actively working to combat the threats of deforestation, erosion, and a warming planet. Reforestation creates jobs and fights poverty in developing countries and helps meet the United Nations' Sustainable Development Goals.

Every tree counts.

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