SWISS AIR

Safety doesn't have to mean discomfort.





PROTECTING PROFESSIONALS

The revolutionary PAPR



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

Breathing is living. The optrel swiss air PAPR brings clean breathing air into your environment and lets you breathe as freely as you could otherwise only enjoy out in the open air.

Many workplaces and public spaces produce pollutant emissions such as smoke, soot particles, fine dusts or viruses that enter the lungs through the nose, throat and trachea and can consequently cause asthma, a chronic cough, bronchitis or other respiratory diseases including lung cancer. With the optrel swiss air PAPR, you can enjoy fresh air regardless of your activity and other protective equipment. It enables you to be independent and to move around freely.

The core element of the optrel swiss air PAPR is a ventilated half mask that completely covers the mouth and nose area and supplies purified air. A breathing space is created in the mouth and nose area, which supports the user's breathing

by means of positive pressure and eliminates tiring respiratory resistance.

Made from high-tech fabric, the half mask is designed to provide an excellent custom fit thanks to the fully adjustable headband. This concept eliminates the need for time-consuming fit tests, which are common practice with conventional sealed half masks.

The clean air is delivered via a Y-hose from a miniaturised blower system, which sits comfortably on a carrying unit worn on the back. This means that the user is always in a "positive air pressure system", which permanently protects their airways against contaminated air.



Benefits

Safety

- >> Guaranteed TH3/TM3 protection.
- >> Easy and safe to use as no fit test is required (for TM, comply with local regulations).

Health

- Continuous protection of the airways and lungs against pollutants in the air.
- Airways are protected against irreparable damage.

Ergonomics

- >> Maximum freedom of movement
- » Avoids neck pain and back pain as the device weighs just 550 g.
- >> Freedom to choose suitable head, eye and hearing protection.

Performance

- >> Increased performance thanks to clean air
- >> Higher productivity by eliminating forced breaks.
- Positive air pressure system for active respiratory support.
- >> Optimal voice clarity when wearing a half mask.

Cost savings

- >> Suitable for use in all production areas.
- >> Reduced operating costs compared with having to purchase, distribute and dispose of single-use masks.
- >> Reusable half-mask system

The PAPR

Headband adjustable to any increment for all sizes from XS to XL. Y-hose with adjustable neck strap and flexible hose elements guides the air directly into the half mask. Ventilated half mask made of flame-retardant material completely covers the mouth and nose area. Positive pressure makes it easier to breathe, preventing users from feeling fatigued. Shoulder carrying unit for ergonomically perfect weight distribution of the superlightweight filter system (weighs just 550 g). Blower unit with automatic air flow calibration and a high-performance battery with 6 to 12 hours of operating time Powerful filter unit with

With the optrel swiss air PAPR, you always have enough fresh air available. The respiratory support technology and the ultra-flat and lightweight rucksack design reduce the fatiguing effect, so you can complete your demanding jobs more easily.

for an uninterrupted working day.*



No mask fit test required



innovative, ultra-flat design.

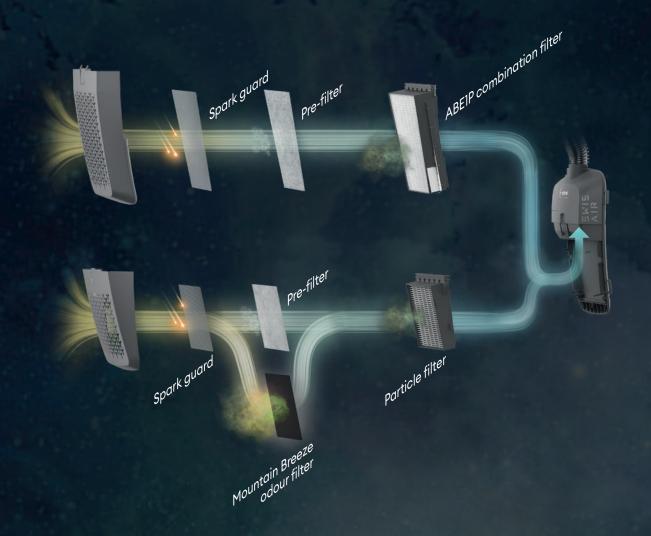
highly efficient in application.

Lightweight and comfortable to wear;

Positive pressure principle for respiratory support

^{*} Operating time depending on air flow, at room temperature with a new filter

Traps aerosols, smoke, particles, gases, vapours or viruses.



Half mask or silicone mask?

Half mask: Protection factor 500.

Tightfit silicone mask: Protection factor 2000. Tightfit silicone mask available in sizes S, M and L.



99.8% CLEAN AIR

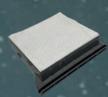


99.95% CLEAN AIR

Particle filter or combination filter?

Particle filter: Traps aerosols, smoke, particles and viruses.

Combination filter (gas and particle filter): Traps gases, vapours, aerosols, smoke, particles and viruses.



Particle filter



ABE1P combination filter

It's completely in your hands.

You always have full control of all functions from the central **control panel** securely positioned on the chest piece of the shoulder harness:

- Switching on and off
- Easy-to-read filter and battery status
- Air flow can be adjusted by any increment for maximum working comfort
- Automatic altitude and temperature compensation



It is easy to read the current **filter status** for maximum safety.



Display of the **charge status of the power battery** with 6 to 12 hours of continuous operating time. *



Rotary controller for simple adjustment to any increment to ensure your optimum air flow. Adjustable from 100 to 130 I/min.







Fully automatic compensation for a constant air flow regardless of temperature or altitude.







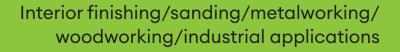


The optrel swiss air PAPR is also your perfect partner for construction and demolition work, as well as other outdoor applications where unpleasant odours or dust are generated.

It can be used with almost any construction helmet or even without a helmet at all.







Perfect air for breathing.

swiss air permanently protects the airways and lungs against pollutants in the air regardless of the current activity in your working day. This prevents the development of respiratory and lung diseases.

swiss air reduces neck pain and back pain by reducing the weight of head, face and eye protection systems. Heavy combination helmets are no longer necessary.

Your ideal work partner.



Respiratory diseases such as asthma, farmer's lung and other ailments caused by dust and particles can be easily prevented with the optrel swiss air PAPR.

The integrated high-performance battery enables up to 12 hours of uninterrupted use. This means that swiss air can be used anywhere and at any time. It is also barely noticeable because it weighs just 550 g. The only thing you can feel is the fresh and clear air.







Technical data

Level of protection	TH3 (EN12941), TM3 (EN12942)
Editor of protoction	11110 (21112) 11/, 11 10 (21112) 12

Blower unit

Flow rates Level 1: Min. 100 I/min.

Min. 115 I/min. Level 2: Level 3: Min. 130 I/min.

All levels with automatic air flow control (levels are set directly on the blower and can be adjusted to any increment via the control panel at the front).

Material PA66 GF30

Fan High-quality motor with ball bearings

Electronic **Fuse** Noise Max. 70 dBA

Alarm Visual (with swiss air control panel) and audible for low/very low battery charge,

clogged filter, no filter and low air flow

Low battery charge level: Alarm frequency 3.0 s (1.5 s on, 1.5 s off) Alarm frequency 0.5 s (0.25 s on, 0.25 s off)

 $(L \times W \times H)$: 250 × 170 × 50 mm **Dimensions**

Weight Blower unit 550 g/entire system 1200 g

Control panel

Reading and setting

options

- Overview of filter contamination and battery charge status - Air flow control adjustable to any increment and on/off switch

- Altitude and temperature compensation

Connection Operating cable with jack plug and cable protection

Material

Half mask POM, tear-resistant textile (98% polyester/2% polyurethane), flame-retardant

insert: Polyurethane foam

Tightfit half mask Silicone, polyacetal clip, polycarbonate window

Valve Exhalation valve with silicone membrane

Standards

Standards EN 12941; Europe: TH3;

EN 12942; Europe: TM3;

Australia: PAPR-P3; AS/NZS 1716;

EAC TP TC 019/2011

Notified body CE 1024

ATEX II 3D Ex ic IIIB T4 Dc

II 3G Ex ic IIB T4 Gc

Respiratory protection system

Safety doesn't have to mean discomfort.



swiss air package

1.) swiss air with particle filter with half mask



swiss air basic system consisting of:

PAPR, control panel, half mask, particle filter, pre-filter, filter cover, spark guard, hose system, headband and neck strap, shoulder carrying unit, charger, optrel rucksack.

Item no. 4700.010

2.) swiss air with particle filter (without half mask*)



swiss air basic system with particle filter consisting of:

PAPR, control panel, WITHOUT half mask, particle filter, pre-filter, filter cover, spark guard, hose system, headband and neck strap, shoulder carrying unit, charger, optrel ruck-sack.

Item no. 4700.013

3.) swiss air with combination filter (without half mask*)



swiss air basic system with ABE1P combination filter consisting of:

PAPR, control panel, WITHOUT half mask, ABEIP combination filter, pre-filter, combination filter cover, spark guard, hose system, headband and neck strap, shoulder carrying unit, charger, optrel rucksack.

Item no. 4700.014

"Ready-to-weld" package/ "Ready-to-grind" package

Just get started! Select a package and the right helmet.

The package includes:

PAPR, control panel, half mask, particle filter, pre-filter, filter cover, spark guard, hose system, headband and neck strap, shoulder carrying unit, charger, optrel bag.



Package – helix series	ltem no.
	+
helix clt + swiss air	4600.160
helix quattro + swiss air	4600.150
helix 2.5 + swiss air	4600.140
Package - panoramayy series	Item no.

	(=
panoramaxx clt silver + swiss air	4600.010
panoramaxx quattro + swiss air	4600.020
paparamayy 2.5 + ewice air	4600 030

Package - sphere series	Item no.
•	
crystal2.0 + swiss air e684 + swiss air vegaview2.5 + swiss air	4600.040 4600.050 4600.060

Package – other	Item no.
	+
neo p550 + swiss air	4600.080
weldcap bump + swiss air	4600.090
weldcap + swiss air	4600.100
clearmaxx + swiss air	4600.110

Spare parts and accessories

for swiss air o	only	
General ac	cessories	Item no.
County	Half mask black	4160.500
	Nose foam for half mask	4160.530
TM3 certified	tightfit half mask, white, S tightfit half mask, white, M tightfit half mask, white, L	4160.550.W 4160.560.W 4160.570.W
•	Exhalation valve for tightfit (set of 2)	4160.590
	6–12 h battery, black, rechargeable	4554.010
	USB charger and cable	4554.070
	Extension for shoulder carrying unit, black	4556.035
-0-	Headband for half mask, black (set of 2)	5003.700
Particle filt	ter accessories	
	Particle filter (1 piece) (set of 20)	4088.402 4088.432
	Pre-filter for particle filter (set of 50)	4088.410
	Mountain Breeze odour filter (set of 20)	4088.080
	Spark guard for particle filter (set of 2)	4088.420
	Filter cover for particle filter, black	4556.090
	Protection Cover	4551.650
Combinati	on filter accessories	
	ABEIP combination filter	4088.450
	swiss air combination filter upgrade kit, contains: 1 ABE1 combination filter, 1 filter cover, 1 spark guard, pack of 50 pre-filters	4088.455
	Pre-filter for combination filter (pack of 50)	4088.451
	Filter cover for combination filter, black	4556.091
	Spark guard for combination filter	4088.820

(set of 2)

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

For the sale of every single optrel swiss air PAPR, optrel will plant a tree as part of a global reforestation project, which more than offsets the CO₂ footprint of the swiss air.

Because fresh air is important for all of us.



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

optrel supports Treellionaire. As a Treellionaire, you play an active part in combating the threat of deforestation, erosion and a warming planet. Reforestation creates jobs, combats poverty in developing countries and helps to fulfil the sustainability goals of the United Nations.

Every tree counts.

Your optrel dealer:



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