

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.

Fresh ex-works

Infinitely 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 6 to 12h 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.

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

* Operating time depending on air flow, at room temperature with a new filter.

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.

48 mm



Filter lid

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

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.

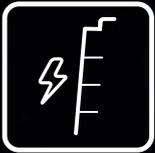
TH3
certified

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 6 up to 12 hours of continuous operating time. *



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



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



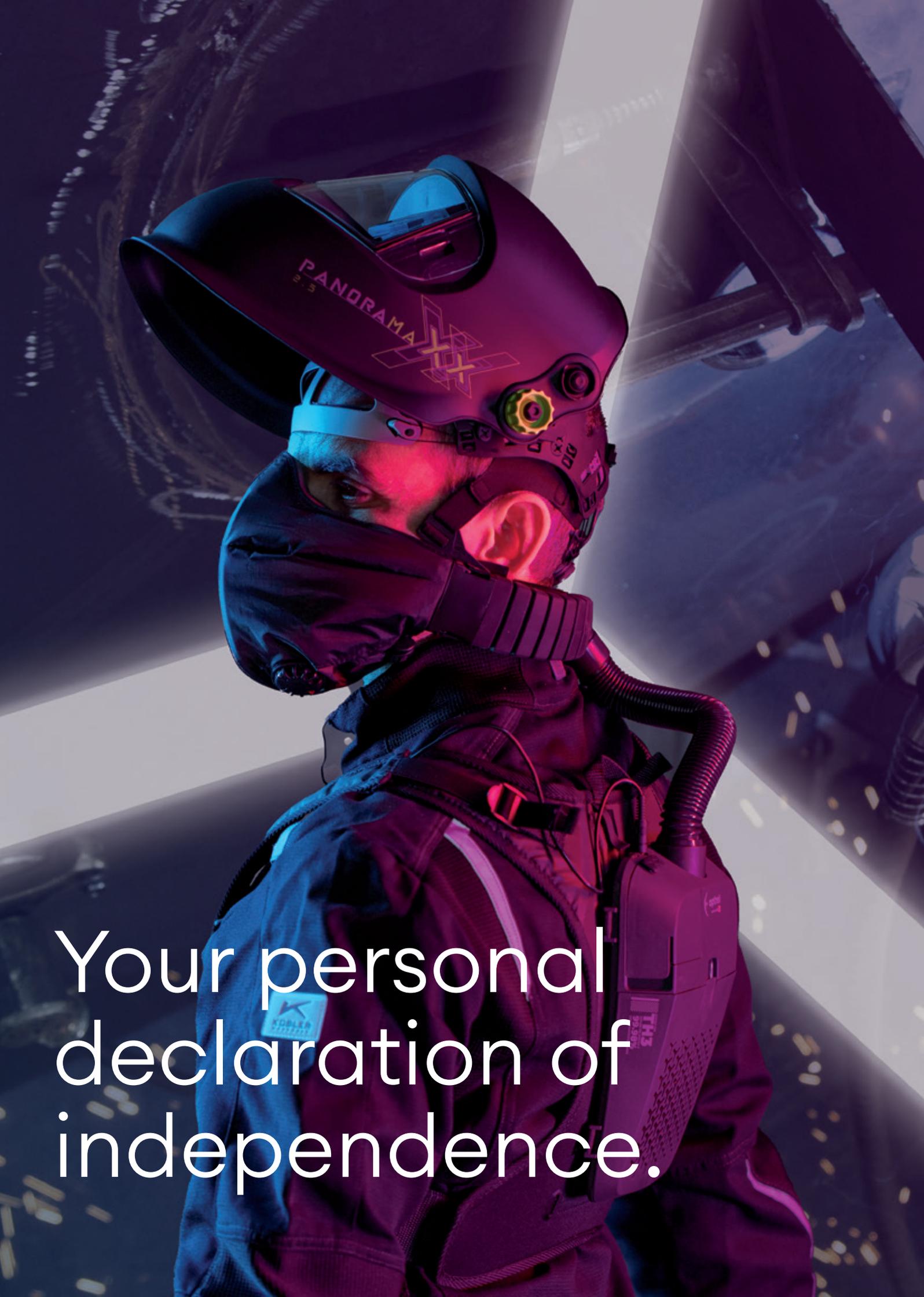
Fully automatic compensation for consistent airflow, regardless of temperature or altitude.

* Operating time depending on air flow, at room temperature with a new filter.



optrel
swiss made

optrel



Your personal
declaration of
independence.

Welding / Plasma cutting

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.

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





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.

Demolition / Construction /
Waste Disposal / Recycling

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



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.

Grinding / Metalworking / Woodworking /
Industrial applications



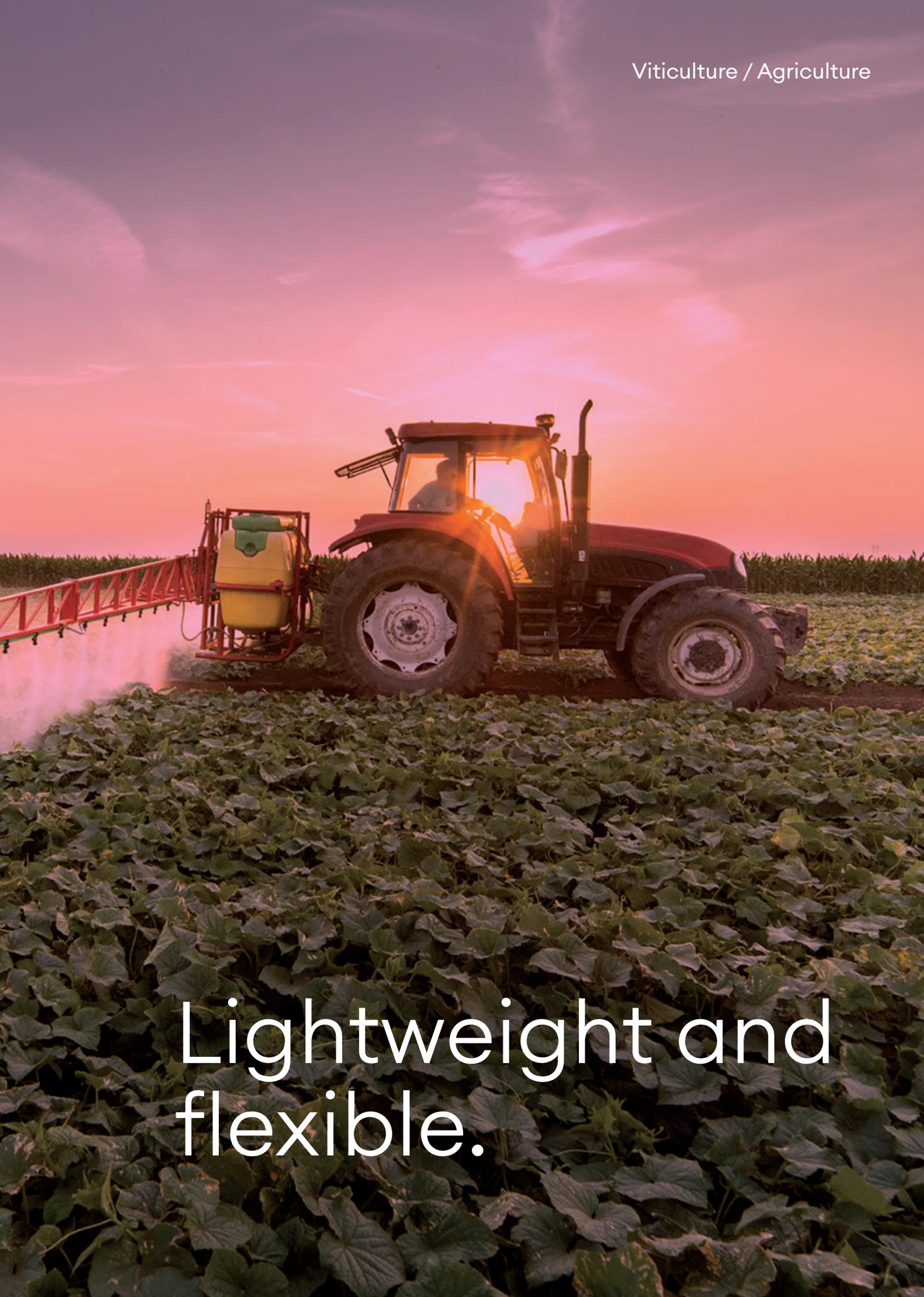
SchreyöggBau

THIS PART

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 12 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.





Food industry / laboratory applications

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

Protection class	TH3 (EN12941)
Blower unit	
Flow rates	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).
Material	PA66 GF30
Ventilator	high-quality motor with ball bearings
Fuse	electronic
Noise	max. 70db (A)
Alarm	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)
Dimensions	(L x W x H): 250 x 170 x 50 mm
Weight	Blower unit 550 g / Total system 1.200 g

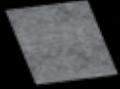
Control Panel	
Reading and adjustment options	<ul style="list-style-type: none"> - Overview of filter contamination and battery charge status - Continuous airflow control and on/off switch - Altitude and temperature compensation
Connection	Operating cable with a jack plug and cable protection

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

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

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

Spare parts and accessories**Art. No.****Accessories****Art. No.**

	TH3 Particle filter for swiss air incl. prefilter	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 6-12 h black for swiss air, rechargeable *	4554.010
	swiss air mountain breeze Geruchsfilter (set of 20)	4088.080		Protection Cover	4551.650
	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.**

	Ready-to-Weld Package panoramaxx clt silver + swiss air incl. half-mask & hose system, head & neck strap, blower unit, shoulder carrying unit, control unit, charger, bag	4600.010		Ready-to-Weld Package crystal2.0 + swiss air incl. half-mask & hose system, head & neck strap, blower unit, shoulder carrying unit, control unit, charger, bag	4600.040
	Ready-to-Weld Package panoramaxx quattro + swiss air incl. half-mask & hose system, head & neck strap, blower unit, shoulder carrying unit, control unit, charger, bag	4600.020		Ready-to-Weld Package e684 + swiss air incl. half-mask & hose system, head & neck strap, blower unit, shoulder carrying unit, control unit, charger, bag	4600.050
	Ready-to-Weld Package panoramaxx2.5 + swiss air incl. half-mask & hose system, head & neck strap, blower unit, shoulder carrying unit, control unit, charger, bag	4600.030		Ready-to-Grind Package clearmaxx + swiss air incl. half-mask & hose system, head & neck strap, blower unit, shoulder carrying unit, control unit, charger, bag	4600.110

* Operating time depending on air flow, at room temperature with a new filter.

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 CO₂ 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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