SWISS AIR

Safety doesn't have to mean discomfort.

reddot winner 2021

optrel®
swiss made

PROTECTING PROFESSIONALS

The revolutionary PAPR

TH3 certified

reddot winner 2021

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 super-lightweight 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 for an uninterrupted working day.*

Powerful filter unit with innovative, ultra-flat design. Lightweight and comfortable to wear; highly efficient in application.

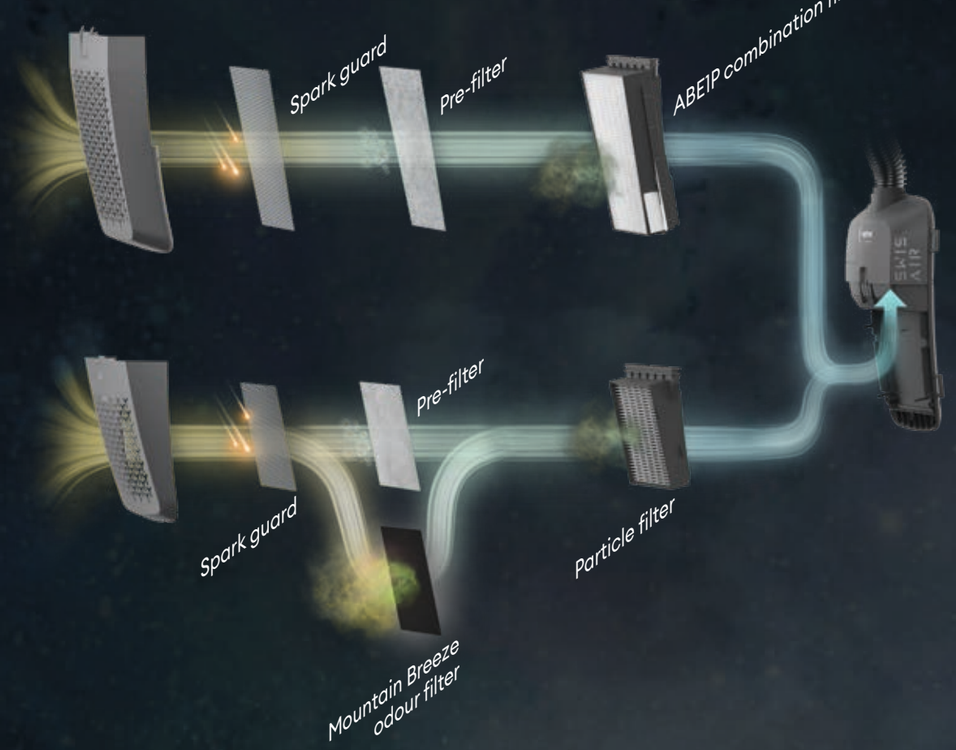
With the optrel swiss air PAPR, you always have enough fresh air available. The respiratory support technology and the ultra-flat and lightweight rucksack design reduce the fatiguing effect, so you can complete your demanding jobs more easily.

No mask fit test required

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.

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

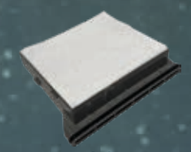
99.8%
CLEAN AIR

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 l/min.

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

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

Welding/plasma cutting

Your personal declaration of independence.

optrel swiss air is ideal for use in welding and cutting work in dirty and toxic environments.

The optrel swiss air half mask gives you all the freedom you need – whatever you have in mind. It's a flexible choice that can be combined with any helmet system.

It can be combined with any helmet or other equipment and is therefore the most versatile PAPR available.

Demolition work/construction work/
waste disposal/recycling

Flexible.
Versatile.
Always there for you.
For all your tasks.

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.

Interior finishing/sanding/metalworking/
woodworking/industrial applications

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.

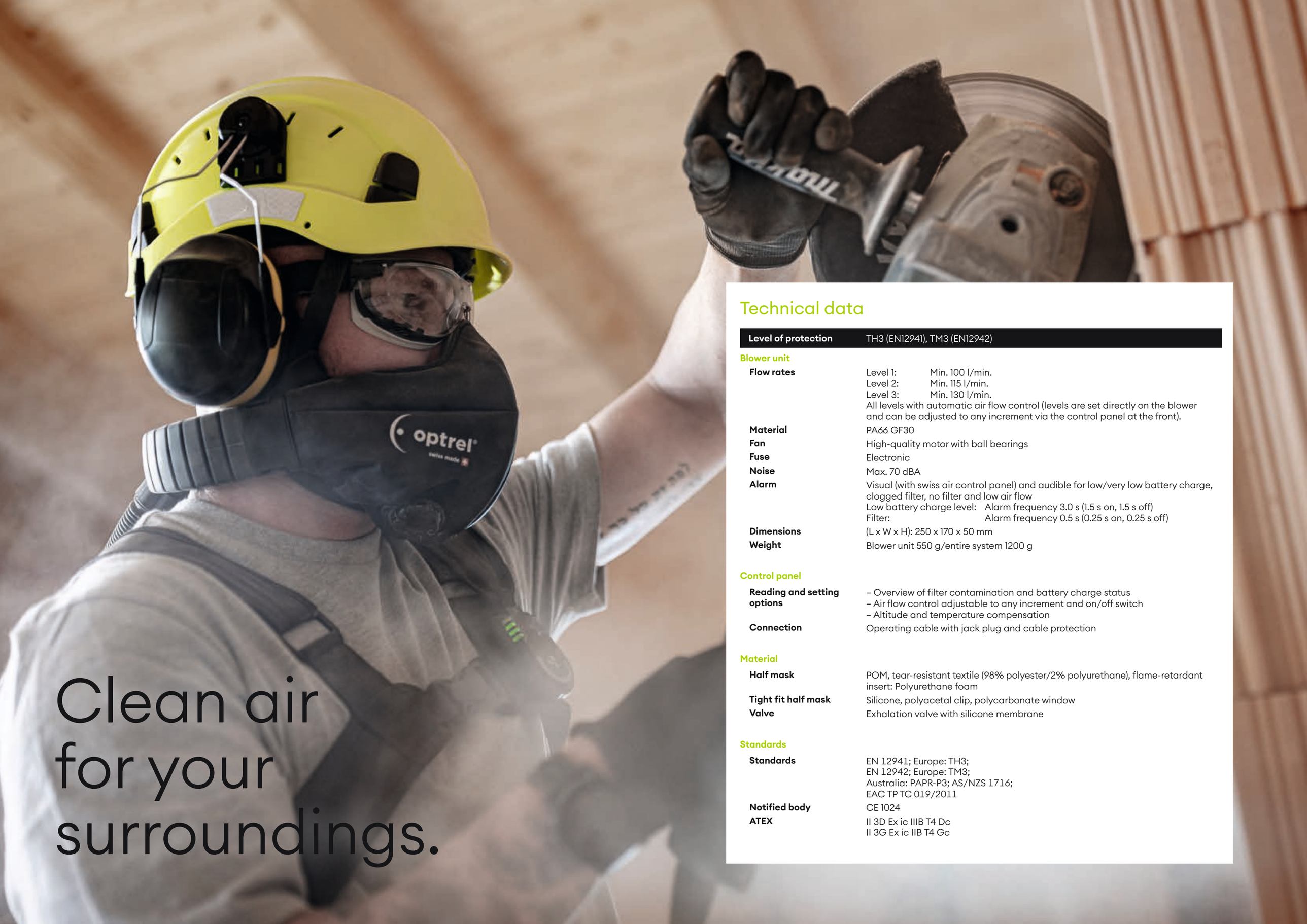
swiss air reduces neck pain and back pain by reducing the weight of head, face and eye protection systems. Heavy combination helmets are no longer necessary.

Your ideal work partner.

Lightweight and flexible.

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.



Clean air for your surroundings.

Technical data

Level of protection	TH3 (EN12941), TM3 (EN12942)

Blower unit

Flow rates	Level 1: Min. 100 l/min. Level 2: Min. 115 l/min. Level 3: Min. 130 l/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
Fuse	Electronic
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) 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/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
Tight fit 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 rucksack.

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, ABE1P 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

**Can be ordered with a half mask or tight fit half mask.*

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	Item no.
helix clt + swiss air	4600.160
helix quattro + swiss air	4600.150
helix 2.5 + swiss air	4600.140

Package – panoramaxx series	Item no.
panoramaxx clt silver + swiss air	4600.010
panoramaxx quattro + swiss air	4600.020
panoramaxx 2.5 + swiss air	4600.030

Package – sphere series	Item no.
crystal2.0 + swiss air	4600.040
e684 + swiss air	4600.050
vegaview2.5 + swiss air	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 only

General accessories	Item no.
Half mask black	4160.500
Nose foam for half mask	4160.530
tight fit half mask, white, S tight fit half mask, white, M tight fit half mask, white, L	4160.550.W 4160.560.W 4160.570.W
Exhalation valve for tight fit (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
Headband for half mask, black (set of 2)	5003.700

Particle filter 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

Combination filter accessories	
ABE1P 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 (set of 2)	4088.820

Further spare parts and accessories can be found at www.optrel.com

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 CO_2 footprint of the swiss air.

Because fresh air
is important for all of us.

climate neutral product

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.

Ready for an upgrade?

Trade-In offer!

Trade in your used optrel system now and receive a credit when you purchase a new product! We reward your loyalty to the optrel brand with € 100.– for helmets, € 200.– for respiratory protection devices and even 300.– € for complete systems. Talk to your optrel dealer and find out more!

Your optrel dealer:

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