A close-up photograph of the MSA OptimAir 3000 PAPR respirator. The device features a central black body with two large, circular green filters on either side. A black corrugated hose is attached to the top, and another is visible at the bottom. The MSA logo and 'OPTIMAIR 3000' are printed on a white label on the front of the device.

The features of the
OptimAir 3000 PAPR
will take your
breath away.

Breathing is easy with the OptimAir 3000

If your job demands long-term breathing protection, the OptimAir 3000 PAPR [Powered Air Purifying Respirator] is the way to go. Your breathing remains easy and free from resistance even after hours of work. The remarkable OptimAir 3000 combines the latest in high-tech features and ergonomically engineered design to give you the most advanced device of its kind available today. A maximum in safety, flexibility and ease-of-handling lets you concentrate on your work, knowing that your health is not being compromised.

Why OptimAir 3000 PAPR?

Using a traditional non-powered filter system over time adds a significant strain on breathing and increases body temperature. As a result effective working time, concentration and ultimately safety are reduced.

The OptimAir 3000 PAPR system allows you to breathe normally while you work. Your comfort, well-being and ability to perform effectively are greatly enhanced. Filters also last longer. The microprocessor-controlled, variable-speed motor guarantees an optimum amount of air in your headtop [mask or hood] – even as your breathing rate changes during more strenuous tasks. In many situations it is not even necessary to maintain an airtight seal. The pressure differential causes airflow to travel continuously from your face to the outside environment, preventing unfiltered air from entering your headtop.

higher pressure
inside hood



Where to use the OptimAir 3000?

There is a wide range of occupations today where workers need to work for long periods of time in unhealthy or even toxic environments. Typical applications are work with hazardous materials such as asbestos removal, paint and lacquer spraying, welding, chemical plants, agriculture and medicine. Like any PAPR, the OptimAir 3000 should only be used in areas where there is an adequate level of oxygen, as required by local regulation. Our specially designed OptimAir 3000 EX unit can also be used in areas where there is a potential danger of ignition.

What's so special about the OptimAir 3000?

The first thing you'll notice about the OptimAir 3000 is its stunningly compact and low-weight profile. At 1.3 kilos [with particle filters] you'll hardly notice you are wearing it. Its streamlined and well-balanced design reduces back strain and increases freedom of movement. The air hose port is parallel to your back to keep the hose close to your body and well-rounded edges prevent suit tears.

The OptimAir 3000 is available in 3 versions to get you started. A large selection of headtops, filters and other options also lets you customise your OptimAir 3000 system to match your specific demands. On the next pages you can find a complete listing of features, accessories and applications to help you put together the right system for the job at hand.



OptimAir 3000 at a glance

[Ergonomic design]

- light weight to reduce back strain
- optimised profile to reduce bulkiness
- hose stays close to your body for added safety
- choice of belts for added comfort or decontamination
- filter covers can be cleaned separately

[Advanced technology]

- fully microprocessor-controlled
- TabTec® filter technology reduces weight, size and filter inventory
- automatic headtop detection
- automatic airflow regulation

[Greater safety and comfort]

- protects against biologicals, chemicals, dusts, aerosols and gases [using the appropriate filters]
- automatic airflow regulation lets you breathe normally, reducing body heat and increasing your ability to work
- airflow monitoring prevents improper use of filters or head gear
- alarm is sent through hose and can be heard in loud environments
- five-level battery reserve indication
- delayed “off” prevents accidental shutdown
- to avoid any misuse, the OptimAir 3000 EX is not compatible by design with the standard OptimAir battery packs

[Easy operation]

- one-button operation
- automatic calibration
- long-life battery
- shower-proof for easy decontamination [IP 54]
- one-click battery change
- easy to clean
- exclusive stackable filter system



Microprocessor-controlled for extra safety. Combination LED/acoustic signal indicates 5 levels of battery reserve. Easy one-button operation has off-delay to prevent accidental shutdown.



TabTec® filter technology uses a carbon tablet rather than granules. The result is a compact, lightweight filter. Three filters can be used in combination to give you five levels of protection. This reduces your filter inventory.



Patented technology sends an acoustic signal through the hose directly to headtop to warn operator of low battery or airflow. You can hear the alarm even in loud environments.



Automatic headtop detection. Unique technology automatically senses which head protection is being used and adjusts airflow automatically.



Shower-proof design allows user to take decontamination shower without the need for additional accessories or preparation.



Easy one-click battery change. The OptimAir 3000 comes standard with a NiMH battery for over 8 hours of continuous operation [with particle filters]. An extra long-life battery is available as an option.

Equipment overview

Below is a complete overview of all components available for the OptimAir 3000 with their order numbers. Accessories are completely interchangeable to suit your custom requirements.

[Headtops]



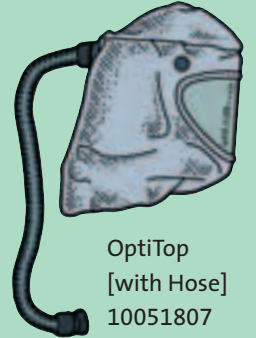
OptimAir Mask
[with Hose]
10051810



3S Mask
D2055000



3S Basic Plus Mask
D2055790



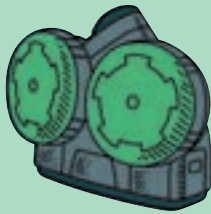
OptiTop
[with Hose]
10051807

[Hoses]

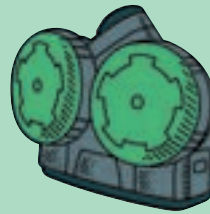


Mask Hose
10049630

[PAPRs]



OptimAir 3000
[complete unit]
10049557

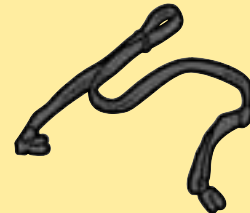


OptimAir 3000 EX
[complete unit]
10049559

[Belts]



OptiBelt Comfort
10049623



OptiStrap
10059112

[NiMH Batteries]

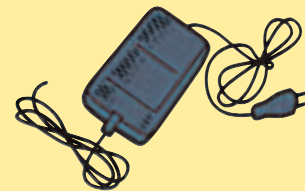


OptiBat
10049560



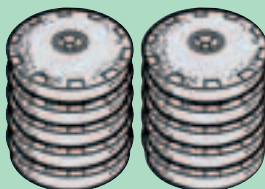
OptiBat EX
10049622

[Battery Chargers]



OptiCharge
10049627

[Filters]



Particle Filter
[pack of 10]
10049632



A2 Filter
[pack of 10]
10049637



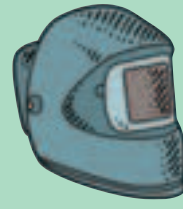
OptiHood Demi
10051805



OptiHood Full
10051806



OptiVizor
10049638



OptiVizor W
[complete set]
10049639

OptiVizor W
[Add-on Screen]
10058144



OptiTop Hose [spare]
10053377



Hood & Vizor Hose
[standard]
10049631

Hood & Vizor Hose [XL]
10082281



OptimAir 3000 A
[complete unit]
10049558



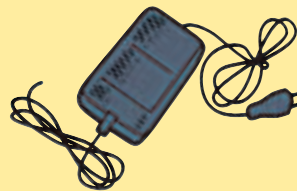
OptiBelt Decon
D6181976



OptiBat E
10049621



OptiCharge EX
10049629



OptiCharge Delta
10049628



A1B1E1K1 Filter
[pack of 10]
10049635

[Please note that the sketches may differ from the actual products.]



HAZMAT



Welding



Spray painting



Chemicals



Agriculture



Laboratory

OptimAir 3000 can be used wherever long-term breathing protection is needed. It comes in three configurations to get you started. A wide variety of accessories is available to suit your own custom requirements.

OptimAir 3000

[the all-rounder]

The OptimAir 3000 is our standard version designed for a diverse range of applications. This version delivers 130 l/minute airflow and comes with a NiMH battery, battery charger and comfort belt. A large assortment of full face masks, hoods and visors are available to choose from. Three filters can be used in combination to give you five levels of protection.

OptimAir 3000 A

[where high airflow is required]

The OptimAir 3000 A delivers 160 l/minute airflow and is supplied with the OptimAir Mask [Advantage line] plus a decon belt for easy cleaning and decontamination to meet asbestos removal regulations [check local recommendations]. In addition, it comes with a NiMH battery, battery charger and one pack of ten particle filters. The unit has been designed exclusively for use with particle filters.

OptimAir 3000 EX

[for potentially explosive environments]

The OptimAir 3000 EX is fitted with ignition-proof components for use in potentially explosive [ATEX] areas and has the same features as the standard OptimAir 3000. It delivers 130 l/minute airflow and comes with a NiMH EX battery, EX battery charger, and comfort belt.

Choose from our complete assortment of full face masks, hoods and visors to meet your individual specifications.



OptimAir 3000 versions & equipment options

| | OptimAir 3000 | OptimAir 3000 A | OptimAir 3000 EX |
|---|---------------|-----------------|------------------|
| Full Face Masks | | | |
| OptimAir Mask [with Hose] | □ | ■ | □ |
| 3S Mask* | □ | □ | □ |
| 3S Basic Plus Mask* | □ | □ | □ |
| Mask Hose | □ | □ | □ |
| Hoods & Visors | | | |
| OptiTop [Hooded Helmet with Hose] | □ | X | □ |
| OptiHood Demi* | □ | X | □ |
| OptiHood Full* | □ | X | □ |
| OptiVizor W* [Complete OptiVizor with Welding Screen] | □ | X | □ |
| OptiVizor W [Add-on Welding Screen] | □ | X | □ |
| OptiVizor* [Face Shield] | □ | X | □ |
| OptiHoods & OptiVizors Hose | □ | X | □ |
| OptiTop Hose | □ | X | □ |
| Belts | | | |
| OptiBelt Comfort | ■ | □ | ■ |
| OptiBelt Decon | □ | ■ | □ |
| OptiStrap [Shoulder Strap] | □ | □ | □ |
| NiMH Batteries | | | |
| OptiBat [Standard Battery] | ■ | ■ | X |
| OptiBat E [Extended Battery] | □ | □ | X |
| OptiBat EX [for ATEX areas] | X | X | ■ |
| Battery Chargers | | | |
| OptiCharge [Standard Charger] | ■ | ■ | X |
| OptiCharge Delta [Delta Charger] | □ | □ | X |
| OptiCharge EX [for ATEX areas] | X | X | ■ |
| Filters | | | |
| Particle Filter [pack of 10] | □ | ■ | □ |
| A2 TabTec® Gas Filter [pack of 10] | □ | X | □ |
| A1B1E1K1 TabTec® Gas Filter [pack of 10] | □ | X | □ |
| OptiCarrier | □ | □ | □ |

*Hose needs to be ordered separately. ■ Standard □ Optional X Not compatible

Items included with the standard versions are marked with a black square.

For their order number see last page. The other components or accessories are optional and indicated with a blank square. If marked with an X, the items are not compatible and cannot be used together.

Ordering Information

| Complete Sets | | |
|---------------|-----------------------------------|--|
| 10049557 | OptimAir 3000 | [Standard unit with 130 l airflow, NiMH Battery, Standard Charger and Comfort Belt] |
| 10049558 | OptimAir 3000 A | [Unit with 160 l airflow, OptimAir Mask w/Hose, Particle Filter [pack of 10], NiMH Battery, Standard Charger and Decon Belt] |
| 10049559 | OptimAir 3000 EX | [Unit with 130 l airflow, NiMH EX Battery, EX Charger and Comfort Belt] |
| Accessories | | |
| 10049626 | OptiCarrier | Transport bag |
| 10037238 | OptimAir Mask Cover Lenses | clear [pack of 10] |
| 10037237 | OptimAir Mask Cover Lenses | tinted [pack of 10] |
| 10037282 | OptimAir Mask Spectacles Kit | |
| 10032100 | OptimAir Mask Carrying Strap | |
| 10060404 | OptiTop Tear Off Lens Protector | [pack of 10] |
| 10060781 | OptiVizor Tear Off Lens Protector | [pack of 10] |

For part numbers of all additional components and accessories, please see pages 4 and 5.
For Accessories on 3S and 3S Basic Plus please see the respective leaflets 05-405.2 and 05-413.2.

Technical Data

| | | |
|--|---|---|
| Protection level | IP 54 [according to EN 60529] | |
| Battery service time [with standard battery and standard blower] | Particle Filter > 8 hrs Combined Filters > 4 hrs | |
| Dimensions | Height | 200 mm |
| | Width | 270 mm |
| | Depth | with flat cap 110 mm [Particle or Gas Filter] with extension cap 130 mm [Combined Filters] |
| Weight in use w. standard blower [complete, without headtop] | 1.3 kg with Particle Filters | 1.7 kg with Combination Filters |
| Certification [OptimAir 3000, OptimAir 3000 A, OptimAir 3000 EX] | EN 12941 | [TH2 hoods and visors] [TH3 hooded helmet] |
| | EN 12942 | [TM3 full face masks] [Compliant with EMC 89/336/EEC] |
| [OptimAir 3000 EX] | BVS 07 ATEX E 38 | |
| | II 2G Ex ib IIB T4 | |
| | II 2D Ex ibD 21 T130 °C | |

OPTIMAIR 3000



Your direct contact

MSA EUROPE Regional Head Offices & Great Britain [www.msa-europe.com]

Northern Europe

MSA Nederland B.V., Hoorn
Phone +31 [229] 25 03 03
E-Mail info@msaned.nl

Central Europe

MSA AUER GmbH, Berlin
Phone +49 [30] 68 86-0
E-Mail info@auer.de

Eastern Europe

MSA Safety Sp. z o.o., Warsaw
Phone +48 [22] 711-50 33
E-Mail mee@msa-europe.com

Southern Europe

MSA Italiana S.p.A., Rozzano
Phone +39 [02] 89 217-1
E-Mail info-italy@msa-europe.com

International Sales

MSA EUROPE, Berlin
Phone +49 [30] 68 86-555
E-Mail contact@msa-europe.com

Great Britain

MSA [Britain] Limited, Coatbridge
Phone +44 [12 36] 42 49 66
E-Mail info@msabritain.co.uk

10-402.2 GB/03/02.09/pdf

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The Safety Company