

# e-breathe

## MULTIMASK PRO (2nd Generation) Face Shield Concept



ENG

# e-breathe Multimask Pro

## Face Shield



The innovative concept of the e-breathe Multimask Pro is based on a modular developed and ventilated face shield, which can be operated with an air source (powered air-purifying respirator (PAPR) or compressed air). In combination with an air source the Multimask Pro represents a respiratory protection system. The air source builds up a constant overpressure in the head section, which prevents harmful substances from reaching the user.

During development, we took up optimization requests from users and integrated them into a new concept for respiratory protection devices. The result convinces by its functionality and comfort.

The Multimask Pro is designed to serve a wide range of applications. A broad range of matching accessories ensures high functionality and comfort. The lightweight mask frame is the basic unit and is identical for each version. Thus, the mask can be assembled for the respective target application, like in a modular principle, and thus be adapted exactly to the user's needs.

### The functional design can do much more than is apparent at first glance:

The upper part of the frame is designed to make it easy to combine the Multimask with other personal protective equipment, such as a standard industrial helmet and/or hearing protectors.

The Multimask is equipped with an anti-fog coated cellulose acetate visor on both sides for a permanently clear view. The visor is characterised by a particularly wide all-round view. Depending on the area of application, different visors are available for the user: temperature, heat or chemical resistant. The shape of the mask frame prevents the mask from being accidentally placed on the visor. The field of vision thus remains protected from unnecessary scratches.

Another advantage of the Multimask is its very easy handling. All mask components such as headgear, visor and face seal can be replaced without tools. The mask can thus be quickly and easily disassembled, cleaned and serviced after use.

In addition, the Multimask also scores in terms of wearing comfort. The face seals ensure a secure and comfortable fit. The new second generation face seals have an improved fit and a click-in system for easier and faster mounting. Different face seals made of different materials are available, which can be individually adapted to the user's needs.

The Multimask Pro combines breathing, face, hearing and head protection all in one.

Multimask 1. Generation



Multimask Pro 2. Generation



2

3

### Product Characteristics:

#### Face seal:

- New Click-in system for easier assembly
- New improved fit
- Easy to exchange and wash
- Materials: neoprene, silicone, foam, mesh

#### Headgear:

- Eccentric screws for an easy exchange of the headband without tools
- Exchangeable headband made of different materials
- Elastic two-point headband made of PP
- One-point headband for attachment to a helmet

#### Visor:

- Eccentric screws for an easy visor change without tools
- Visors from different materials for different requirements: Cellulose Acetate & Polycarbonate

#### Exhalation valve:

- Serves as a speech diaphragm and thus facilitates communication
- Discharge of the used breathing air

#### Breathing air hoses:

- Three different hose types are available to cover every application:  
**PU - flexible, PU - fixed length, EPDM - fixed length**

#### Compatibility:

- Compatible with a standard industrial helmet
- Compatible with hearing protection

#### Air sources:

- **Approved with 3 different PAPR:**
  - PM Proflow SC 160
  - PM Proflow EX 160
  - e-breathe e-Flow
- **Approval with compressed air control valve:**
  - e-breathe e-Line

### Technical Specifications:

Combinations:	e-breathe e-Flow	PM Proflow 2 SC / EX 160	e-breathe e-Line
Approvals:	CE certified according to EN 12941	CE certified according to EN 12941	CE certified according to EN 12941
Protection class / VdgW:	TH3 / 100	TH3** / 100 & TH2 / 20	3B / 100
Air Performance:	160 - 180 - 200 l/min	160 l/min	160 - 310 l/min
Hose Connection:	Vario & MM	Vario & MM	Vario & MM
Application temperature:	-10°C up to +40°C <70% RH	-10°C up to +40°C <70% RH	-10°C up to +40°C <70% RH
Eye Protection:	EN 166 Class B	EN 166 Class B	EN 166 Class B
Exhalation Resistance:	2,05 mbar	2,45 mbar	2,05 mbar
Weight Headboard:	360g	360g	360g
Face Seal 1. Gen.:	Silicone, Neoprene	Silicone, Neoprene	Silicone, Neoprene
Face Seal 2. Gen.:	Click Foam, Mesh, Silicone	Click Foam, Mesh, Silicone	Click Foam, Mesh, Silicone
Mask Material:	PCABS	PCABS	PCABS

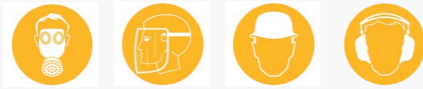


Fig. Multimask Pro with silicone seal and e-Flow PAPR

\*\* Only the Multimask Pro or the Multimask with silicone, foam, mesh seal has protection class TH3.

# e-breathe Multimask Pro

## Functions



4 5

# e-breathe Multimask Pro

## Functions

### 1 Eccentric Closure

The eccentric fastener fixes the visor by a turning movement and takes up the headband.

The rotary movement presses the visor against the visor seal and thus additionally seals the mask.

The headgear and visor can be replaced quickly and easily without any tools.



### 2 Hose Connections

The attachment of the breathing air hose to the Multimask is done by the patented click adapter with a simple click.

This avoids twisting of the breathing air hose during assembly. The breathing air hoses are available in three different materials, depending on the application purpose.



### 3 Internal Air Control

Due to the patented click adapter, the user can determine the path of the filtered air himself.

The air ducts inside the mask frame are positioned with the utmost precision and allow the user to regulate the air supply himself via three positions according to his needs.

By turning the click adapter, the user can determine whether the air should flow from below (1), from above (3) or from both directions (2) simultaneously.



### 4 Exhalation Valve

The exhalation valve offers the safest way to remove the exhaled air. It prevents a dangerous excess of CO2 and, at the same time, prevents the visor from fogging up.

It is positioned close to the mouth and thus facilitates communication.



### 5 Click Face Seal

The new second generation face seals have an improved fit and a click-in system for easier and faster installation. The frame of the click face seals is simply pressed into the mask frame.

The new face seals are available in a universal size made of three different materials to allow the mask to be individually adapted to the user's needs.



### 6 Compatibility

The design of the mask frame is designed to allow the Multimask Pro to be combined with other PPE such as industrial helmets, climbing helmets and hearing protectors.



# Air Sources

Blower Filter Units / Isolating Units Compressed Air

# Multimask Pro

Order information

1. Generation



Multimask Neoprene

Multimask Pro Silicone

2. Generation



Multimask Pro Click Foam

Multimask Pro Click Mesh

Multimask Pro Click Silicone



PM Proflow 2 SC/EX 160



e-breathe e-Flow



e-breathe e-Line



Breathing Hose PU - fixed length



Breathing Hose PU - flexible



Breathing Hose EPDM - fixed length



PM Particle filter



PM Combination filter



e-breathe Particle filter



e-breathe Combination filter



e-breathe DRV CA Hose

+



e-breathe DFS CA Filter Station 3

## Face Piece: e-breathe Multimask Pro

Item name	Item-Nr.	Picture
<b>1. Generation</b>		
Multimask M Industrial Line	322003999	
Multimask M/L Industrial Line	322004000	
Multimask Pro	322003997	
<b>2. Generation</b>		
Multimask Pro Foam (With Face Seal Click Foam)	322003996	
Multimask Pro Mesh (With Face Seal Click Mesh)	322003995	
Multimask Pro Silicon (With Face Seal Click Silicone)	322003994 Coming Soon	

If you currently don't use a head piece and a blower, our Ready Packs provide a ready-to-go solution. The Ready-packs includes a complete blower unit or a compressed air regulator with a head piece in the respective version with matching breathing hose.

## Ready-Packs: e-breathe Multimask Pro

Item name	Item-Nr.	Picture
The Ready-Pack includes: blower unit, battery, charging station, comfort belt, breathing hose & head piece, service box		
<b>1. Generation</b>		
Ready-Pack PM Proflow 2-SC Set with Multimask Pro Multimask	322064401 322064301	
Ready-Pack e-breathe e-Flow with Multimask Pro with Multimask Gr. M with Multimask Gr. M/L	3220052xx 00 Size M = 10 Size M/L = 20	
<b>2. Generation</b>		
Ready-Pack e-breathe e-Flow with Multimask Pro Foam with Multimask Pro Mesh	3220052xx 40 50	
Ready-Pack e-breathe e-Flow mit Multimask Pro Silicon	322005260 Coming Soon	
Includes: e-Line CA control valve, belt, DRV compressed air adapter, breathing hose, head section & service box		
Ready-Pack e-breathe e-Line with Multimask Pro Foam with Multimask Pro Mesh	3220071xx 10 30 Coming Soon	

Please note:  
The classification of respiratory protection devices may change during the approval process due to the replacement of system components (face seal, respiratory protection fan, hose, etc.). Therefore please always refer to the latest publications of technical data when assembling respiratory protection components in your decision or contact our technical staff.

# Accessory & Spare Parts

# Face Seal



## Accessory & Spare Parts: e-breathe Multimask Pro

Item Name	Item-Nr.	Picture
Multimask Mask Frame e-breathe Silicone Valve Plate Visor Seal	322004050 322004045 322004008	
Standard-Headband	322004020	
Comfort-Headband	322004028	
Clips for Headband Set (Pro)	322004038	
Straps for Headband (Pair)	128076216	
Goggle Adapter for Multimask Spectacle Frame (without lenses)	Upon request 100012790	
Multimask Hood Pro - Disposable - Reusable - Heat protection	116001040 Upon request Upon request	
<b>Cleaning and maintenance</b>		
e-breathe Cleaning Bag	322002108	
PM PSA Rapid Disinfectant PM PSA Ultra Immersion Disinfectant Basic spray head for Disinfectant (plastic)	129001000 129001003 129001001	

## Face Seal: e-breathe Multimask Pro

Item Name	Item-Nr.	Version	Size	Material	
<b>Face Seal 1. Generation (2016-2020)</b>					
Face Seal Standard -> Modell is running out!	322004018	1. Generation	Gr. M	Neoprene	
	322094018	1. Generation	Gr. M/L	Neoprene	
Face Seal PRO V.3 -> Modell is running out!	322094018	1. Generation	Universal	Silicone	
<b>Face Seal 2. Generation (starting 2020)</b>					
Face Seal Click Foam - NEW with click-in	322004039	2. Generation	Universal	Foam	
Face Seal Click Mesh - NEW with click-in	322004044	2. Generation	Universal	Mesh / Foam	
Face Seal Click Silicone - NEW with click-in	322004060	2. Generation	Universal	Silicone	 no image available yet

# Breathing Air Hoses



## Breathing Air Hoses: e-breathe Multimask Pro

Item name	Item-Nr.	Materials	To be used with	Picture
Breathing Air Hose Vario Connection with Air control	322000996	PU - flexible	e-breathe Multimask / e-breathe Multimask Pro	
	302711105	PU - fixed length		
	302711107	EPDM - fixed length		
Breathing Air Hose MM Connection free-rotating	322000997	PU - flexible	e-breathe Multimask / e-breathe Multimask Pro	
	302711104	PU - fixed length		
	302711106	EPDM - fixed length		
Protective Covers for Breathing Air Hoses	116001041	Limited-Use	compatible with all e-breathe Breathing Air Hoses	
	upon request	Reusable		
	233100403	Aluminized		
Safety Rubber for Hose (PU 4)	322000995	EPDM	compatible with MM, Vario & Click Breathing Air Hoses	

# Visors



## Visor: e-breathe Multimask Pro

Item name	Item-Nr.	Version	Chemical Resistance	Temperature Resistance	
<b>Polycarbonate (PC)</b>					
Multimask Visor PC	322004009	standard	+	up to 120 °C	
	322004010	scratch resistant	+	up to 120 °C	
<b>Celluloseacetate (CA)</b>					
Multimask Visor CA	322004014	standard	++	up to 90 °C	
	322004043	Anti-Fog double-sided	++	up to 90 °C	
<b>Gold-coated / Heat protection</b>					
Multimask Visor PC Gold	322004049	heat protection	+	up to 120 °C	
<b>Protection Foils</b>					
Multimask Protection Foil (PU 10)	101063094	standard	+	-	

# e-breathe e-Flow

## PAPR

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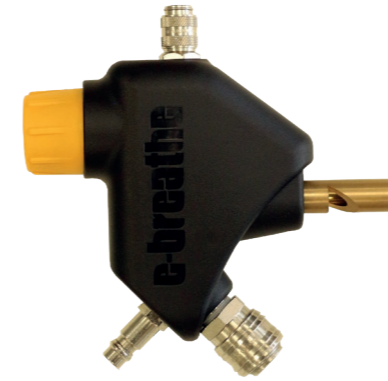
# e-breathe e-Line

## Compressed Air Control Valve

With its new e-breathe PAPR-system, e-breathe has developed an absolute all-rounder. Thanks to its innovative and modular concept, the e-Flow belongs to the newest generation of air purifying respirators. The slim housing and ergonomic design enable an easy operation even in confined spaces.

In addition to its universal application, the blower also convinces in terms of technology and equipment. The blower is equipped with the newest technology and offers maximum safety and protection. It features an intelligent 2-step warning system with acoustic and visual signals and vibration, a replaceable lithium-ion battery with quick charge function and an intelligent monitoring system. The integrated colour display allows the user to view all information such as battery status, filter status, flow rate, next service date and blower running time.

The volume flow can be easily and quickly adjusted to 160 l/min, 180 l/min or 200 l/min by pressing a button.



Combined with an e-breathe headpiece or suit, the e-Line CA Regulator is a compressed air assisted breathing system with a continuous airflow. The system protects the user from pollutants such as particles, dust, fumes (aerosols), gases or vapours. It can also be used as an ambient air-independent device in environments where the use of filtered respiratory protection is not possible.

The e-Line Regulator is worn on a belt. The housing impresses with its robust and durable design. It is easy to clean due to its smooth surface and can be operated optimally by left- and right-handed people. It supplies the user with 170 - 280 l/min of breathable air at an operating pressure of 5-7 bar. The integrated warning whistle warns the user with a signal tone of up to 90 DB when the operating pressure falls below the minimum operating pressure/minimum volume flow.

In terms of wearing comfort, the system impresses with an exchangeable silencer, different carrying systems for a wide range of applications and an optional tool connection for the supply of compressed air to a compressed air tool or spray gun. The breathing hose has a DIN round thread and is compatible with all e-breathe/PM head pieces. The freely rotating union nut on the adapter prevents the hose from twisting.

### e-Flow: Starter-Pack

The Starter-Pack includes:	Part Number	Image
Blower unit, PAD box, 2x filter cover, battery, charging station and comfort belt		
e-breathe e-Flow Blower Unit PAD-Box - Hood System 160-180-200 l/min	322005000	

### e-Flow: Accessory & Spare Parts

Article Name:	Part Number	Image
e-Flow Battery (Li-Ion 14,4 V / 3,4 Ah / 49WH)	322002176	
e-Flow Charging Station	322005003	
e-breathe Comfort Belt Pro	322003003	
e-breathe Shoulder Strap Pro V.2	302063596	
Aluminized Protective Coating for e-Flow Filter-Box	223100401	
for e-Flow PAD-Box	223100402	

### ecoPAD Respiratory Filter System

Filter	Part Number	For use against:	Colour Code	Image
e-breathe ecoPAD P3 R SL (PU 4)	322002110	Filter medium for the unencapsulated e-breathe particle filter for use against solid and liquid toxic, radioactive and harmful particles as well as microorganisms such as bacteria and viruses.		
e-breathe ecoPAD GF ABEK	322002143 coming soon	Organic, inorganic and acid gases and vapours and ammonia - Replacement Gas Filter PADS		

### e-Line CA Regulator (DRV): Starter-Pack

The Starter-Pack includes:	Part Number	Image
Compressed air regulator, compressed air hose adapter and belt		
e-breathe e-Line	322007100	

### e-Line CA Regulator (DRV): Accessory & Spare Parts

Article Name:	Part Number	Image
e-breathe DRV Compressed Air Adapter	100063794	
e-breathe DRV Silencer	100063990	
e-breathe Belt Pro	108062786	
Belt Decon (easy to decontaminate)	302062996	

### Compressed Air Hose + Compressed Air Filter Station

Article Name:	Part Number	Image
e-breathe DFS Compressed Air Hose EPDM - 5m	3020611xx 05	
- 10m	10	
- 20m	20	
- 30m	30	
e-breathe Compressed Air Filter Station 3	322008301	
e-breathe Compressed Air Filter Station 3 WM (with wall mount)	322008300	

# PM Atemschutz



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## PM Shop

Online-Shop for Personal Protective Equipment

[www.pm-atemschutzshop.de](http://www.pm-atemschutzshop.de)

## e-breathe

Development of PPE

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