



Face Shield MULTIMASK PRO



ENG

e-breathe Multimask

Face Shield



The innovative concept of the e-breathe Multimask is based on a modularly developed face shield, which can be operated with a powered air-purifying respirator (PAPR) and/or compressed air. Engineers were able to successfully integrate suggestions for improvement from numerous direct users into a whole new concept of respiratory protection. The result convinces by functionality and comfort.

The Multimask was designed to cover a wide spectrum of various applications and requirements. To ensure maximum functionality and comfort, e-breathe offers a wide range of compatible accessories and spare parts. The Multimask was designed modular which enables the user to compose the mask to the respective application to best fit the individual requirements.

The Multimask's innovative design includes a lot more than the user can see at first glance:

At first, the structure of the top of the mask's frame enables the user to combine the Multimask with all standardized safety helmets. In addition to that, the frame's shape makes it impossible to lay down the Multimask on the visor. Therefore, the field of vision is protected from unnecessary scratches. Also, the mask's frame provides enough space to characterize the Multimask professionally.

Furthermore, the various face seals ensure the highest wearing comfort and are highly skin-tolerable. The individually selectable face seal sizes make the Multimask suitable for all users.

The visor offers a wide field of vision and ensures an anti-fog all-round vision. The Multimask can quickly and easily be cleaned and maintained. Through a rotary motion, headgear and visor can easily be exchanged without tools.

The Multimask combines respiratory, face, hearing and head protection.

Multimask



The **Multimask** is the standard version of the modular face shield. It is equipped with a neoprene face seal and a standard polycarbonate visor.

The lightweight PCAB mask frame is the basic component of the Multimask and is identical in all variants. The mask frame can be equipped and extended with all basic components and all upgrades of the pro series.

- Neoprene face seal
- Visor made of cellulose acetate anti-fog lacquered on both sides
- Protection Class with PAPR: TH3 / TH2 TH3 / TH2
- Protection Class with compressed air regulator: 3B

Multimask Pro



The **Multimask Pro** with silicone seal is the Upgrade to the Multimask. The newly designed face seal made of silicone impresses with an improved fit of the seal and provides a bigger distance from the face to the visor, providing even greater wearing comfort.

The skin-tight facial seal in combination with the built-in cellulose acetate visor provides maximum protection and chemical resistance. The anti-fog lacquer on both sides prevents fogging and ensures a permanently clear view.

- Silicone face seal
- Visor made of cellulose acetate anti-fog lacquered on both sides
- Protection Class with PAPR: TH3
- Protection Class with compressed air regulator: 3B

Features & Benefits:

Face Seal:

- Washable and replaceable
- Different sizes for a perfect fit
- Materials: **neoprene, silicone, foam**

Head Strap:

- Eccentric screws for easy exchange
- Various replaceable head straps:
 - Elastic two-point head strap (polypropylene)
 - One-point head strap for helmet attachment
 - Elastic two-point head strap (TPE/rubber) with adjustable straps

Visor:

- Eccentric screws for easy exchange of visor
- Different materials for various requirements: cellulose acetate & polycarbonate

Exhalation Valve:

- Serves as a speaker membrane and eases communication
- Discharge of exhaust air

Compatibility:

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

certified with 4 different PAPR:

- PM Proflow SC 160
- PM Proflow EX 160
- e-breathe e-Flow

certified with compressed air regulator:

- e-breathe e-Line

Technical Specifications

Combinations:	e-breathe e-Flow	PM Proflow 2 SC 160 PM Proflow 2 EX 160	e-breathe e-Line
Approvals:	CE certified according to EN 12941	CE certified according to EN 12941	CE certified according to EN 14594
Protection Class:	TH3 / 100	TH3** / 100 & TH2 / 20	3B / 100
Airflow:	160 - 180 - 200 l/min	160 l/min	160 - 280 l/min
Hose Connection:	Vario & MM	Vario & MM	Vario & MM
Temperature Range:	-10°C to +40°C <70% RH	-10°C to +40°C <70% RH	-10°C to +40°C <70% RH
Storage Temperature:	-0°C to +30°C <70% RH	-0°C to +30°C <70% RH	-0°C to +30°C <70% RH
Eye Protection:	EN 166 Class B	EN 166 Class B	EN 166 Class B
Exhalation Resistance:	2,05 mbar	2,50 mbar	2,15 mbar
Weight Headpiece:	375g	375g	375g
Face Seal:	Silicone, Neoprene & Foam	Silicone, Neoprene	Silicone, Neoprene & Foam
Mask Material:	PCABS	PCABS	PCABS



** Only Multimask Pro or Multimask with silicone seal has protection class TH3.

e-breathe Multimask

Functions



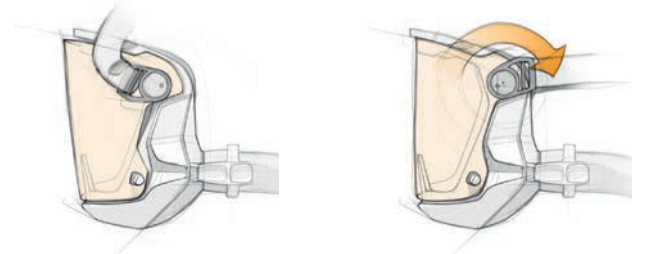
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e-breathe Multimask

Functions

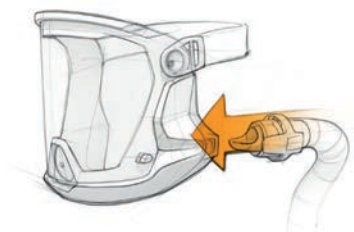
1 Eccentric Closure

Rotating the eccentric closure fixes the visor and takes up the headgear. Due to the rotation the visor is pushed against the visor seal resulting in additional sealing. Both, the headgear and the visor of the Multimask can be exchanged without any additional tools.



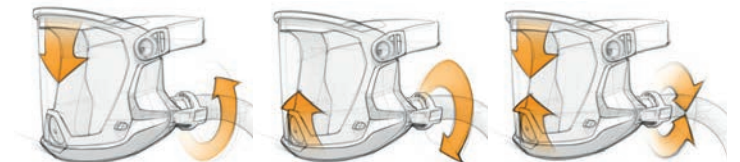
2 Hose Connection

The hose connector is attached to the Multimask with one easy click. Thus, the Multimask does not only meet the newest requirements of European standards, but also opens up to whole new opportunities.



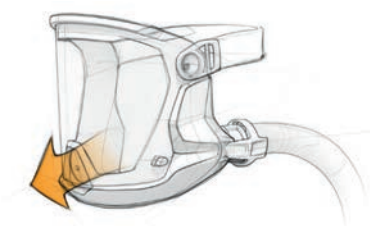
3 Air Control

Due to the patented click adaptor, the user has now the opportunity to decide from which direction fresh air should flow into the mask. Three different positions of the air ducts, which are arranged inside the mask frame with utmost accuracy, allow the user to regulate the air supply according to his needs. By rotating the click adaptor the user can decide whether the air supply comes only from the top or the bottom of the mask, or from both directions at the same time.



4 Exhalation Valve

The exhalation valve provides the safest possibility to remove exhaled air from the inside of the mask. Therefore, the valve prevents not only a steamed up visor but also a dangerous excess of carbon dioxide inside the mask. In addition to that, the proximity of the valve to the user's mouth improves communication while wearing the Multimask.



5 Face Seal

The comfortable face seal is replaceable and washable. Thanks to the variety of sizes and materials the face seal can be individually adjusted to the users' requirements.



Protection Devices

Certified with Multimask & Multimask Pro

Multimask

Order Information



Face Piece		
Article Name	Art.-Nr.	Image
Multimask M Industrial Line	322003999	
Multimask M/L Industrial Line	322004000	
Multimask Pro	322003997	

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		
Article Name	Art.-Nr.	Image
The Ready-Pack includes: blower unit, battery, charging station, comfort belt, breathing hose & head piece		
PM Proflow 2-SC 160 l/min. Set with Multimask Pro	322064401	
PM Proflow 2-SC 160 l/min. Set with Multimask	322064301	
Ready-Pack e-Flow by e-breathe with Multimask Pro	322005200	
Ready-Pack e-Flow by e-breathe with Multimask Size M with Multimask Size M/L	3220052xx Size M = 10 Size M/L = 20	
The Ready-Pack includes: e-Line compressed air regulator, belt, DRV CA Adapter, breathing hose & head piece		
Ready-Pack e-breathe e-Line with Multimask Pro	coming soon	
Ready-Pack e-breathe e-Line with Multimask Size M with Multimask Size M/L	coming soon Size M = 10 Size M/L = 20	

Please note:
The classification of the respiratory protective devices may be changed within the authorization due to substitution of components (e.g. face seal, blower, hose). Therefore please note the recent technical data sheets and publications to assemble the right system or contact our qualified personnel.

Accessory & Spare Parts

Accessory & Spare Parts		
Article Name:	Part Number	Image
Multimask Frame (with visor sealing & silicone valve)	322004050	
Breathing Hose MM (free rotating connector) - Version: PU flexible - Version: PU fixed length 80 cm - Version: EPDM fixed length 90 cm	322000997 302711104 302711106	
Breathing Hose Vario (connector with air control) - Version: PU flexible - Version: PU fixed length 80 cm - Version: EPDM fixed length 90 cm	322000996 302711105 302711107	
Protective cover hose	116001041	
Safety rubber band for hose (4 pieces)	322000995	
Face Seal Neoprene Size M	322004018	
Face Seal Neoprene Size M/L	322004019	
Face Seal Silicone Pro V.3	322094018	
Face Seal Comfort (Pro) Material: foam	coming soon	
Standard-Headband	322004020	
Comfort-Headband	322004028	
Clips for Headband Set (Pro)	322004038	
Straps for headband (Pair)	128076216	
e-breathe silicone Valve	322004045	
Visor Sealing	322004008	

Accessory & Spare Parts

Accessory & Spare Parts		
Article Name:	Part Number	Image
Hood Multimask	116001040	
PM PSA Rapid Disinfectant	129001000	
PM PSA Ultra Immersion Disinfectant	129001003	
Basic spray head for Disinfectant (plastic)	129001001	


Visor



Polycarbonate (PC) (material specifications)


	material thickness	optical class	UV protection	impact resistance	chemical resistance	temperature resistance
PC clear	1,00 mm	1	2 – 1,2	B – 120 m/s	+	up to 120 °C
PC gold*	1,00 mm	1	2 – 1,2	B – 120 m/s	+	up to 135 °C
PC green	1,00 mm	1	2 – 2,5	B – 120 m/s	+	up to 120 °C

* The gold layer reflects up to 94% of the radiant heat.

Visor Polycarbonate		
Article Name:	Part Number	Image
Visor PC - standard Visor PC - scratch resistant Visor PC - anti-fog	322004009 322004010 322004011	
Protective Foil Multimask (PU 10)	101063094	

Cellulose acetate (CA) (material specifications)

	material thickness	optical class	UV protection	impact resistance	chemical resistance	temperature resistance
CA clear	1,15 mm	1	2 – 1,2	B – 120 m/s	++	up to 90 °C
CA green	1,25 mm	1	2 – 5	B – 120 m/s	++	up to 90 °C

Visor cellulose acetate		
Article Name:	Part Number	Image
Visor CA - cellulose acetate Visor CA 2.0 - cellulose acetate (acid resistant & anti-fog; both sides)	322004014 322004043	

e-breathe e-Flow

Order Information

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.



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	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	
e-breathe Belt Pro	108062786	
Belt Decon (easy to decontaminate)	302062996	

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	coming soon	Organic, inorganic and acid gases and vapours and ammonia - Replacement Gas Filter PADs		

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e-breathe e-Line

Order Information



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-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 - 10m - 20m - 30m	3020611xx 05 10 20 30	
e-breathe Compressed Air Filter Station 3	322008301	
e-breathe Compressed Air Filter Station 3 WM (with wall mount)	322008300	

PM Atemschutz



Willicher Damm 99 – 41066 Mönchengladbach – Deutschland

Tel: + 49 (0) 2161 / 40 290 0 Fax: + 49 (0) 2161 / 40 290 20

www.PM-Atemschutz.de

info@pm-ateschutz.de

PM Shop

Online Shop

www.PM-Atemschutzshop.de

e-breathe

Development of new PPE

www.e-breathe.de

info@e-breathe.de

