

e-breathe

Splash Inside & Outside Overpressure Suit



e-breathe Splash

Overpressure Suit



The **e-breathe Splash** is an one-piece overpressure respiratory protective suit that provides maximum protection against solid and liquid chemicals as well as radioactive contamination. The suit is used in combination with an approved air source: e-breathe e-flow PAPR or e-Line compressed air regulator valve.

INSIDE: INTERNAL PAPR

The blower is worn inside the suit (only the filters are outside) to avoid a contamination of the blower. The associated PAPR provides a constant (adjustable) fresh air flow of 160-200 litres per minute, via the breathing hose into the air duct of the integrated hood. This ensures that the user is reliably supplied with sufficient breathable air. The exhaled air exits the suit via four exhaust valves.

OUTSIDE: EXTERNAL PAPR OR COMPRESSED AIR REGULATOR VALVE

The air supply is worn outside the suit. This option is used for the rapid change (disaster control) of air sources and is therefore suitable for a variety of other PAPR. The suit can be easily and quickly dressed and undressed. The system can be changed without removing the suit. A blower delivers an adjustable fresh air flow of 160-200 litres per minute, the compressed air regulator valve delivers a constant (adjustable) fresh air flow of 160-280 litres per minute, via the breathing air hose into the air duct of the integrated hood.

PROTECTIVE SUIT FOR HARDEST CONDITIONS

The material of the e-breathe Splash consists of a high-quality elastomer fabric with a special foil laminate. Due to the resulting durability and mechanical resilience, the suit can be used in a wide range of applications.

HIGH SAFETY AND FLEXIBILITY

Equipped with a visor, booties and conical sleeves, it offers high safety and flexibility. The suit is equipped with booties and can be used with all suitable boots. The conical sleeve enables a liquid-tight connection between glove and suit either by taping with chemical-resistant tape or by using the e-breathe glove adapter system.

EMERGENCY FUNCTION WITH EMERGENCY HOSE (NOT SUITABLE FOR COMPRESSED AIR)

In the exceptional event of a blower failure or if the danger zone cannot be left in time, the user can supply himself with breathable air by using an emergency hose. For this purpose, a mouthpiece is attached to the end of the breathing air hose. In an emergency, the user can use his own lung power to suck in breathable and filtered air through the breathing air hose and the connected blower.

MAXIMUM COMFORT

The suit is manufactured in a Y-cut and allows the user maximum freedom of movement. The particular shape allows the user to reach inside the suit at any time. The air-permeable neck seal with drawstring not only ensures an optimum air flow inside the hood, it also allows the excess air to flow into the body area of the suit, thereby providing indirect cooling and improved air circulation.

OPTIONAL ADD-ONS AND INDIVIDUAL CUSTOMIZATION:

The equipment can optionally be provided with individual marking on arm, back and chest in black lettering on customer request. A special and more economical trainer version is available for exercise and training purposes. It is made of a non-chemical-resistant PVC coating on polyester fabric and is used exclusively for training purposes.

MADE IN GERMANY

In order to guarantee a high quality of the products the production of the suit takes place in Germany. Also the complete service, maintenance and repair of the suits is carried out in Germany. In this way, downtimes due to long transport routes and/or poor availability of spare parts are minimised and the rapid re-use of a defective suit is guaranteed.

2 3

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Overpressure Suit



PRODUCT CHARACTERISTICS:

- made in Germany
- high chemical & mechanical resistance
- maximum protection and comfort
- clear PC visor offers a large all-round view
- exchangeable gloves and booties for use with different boots and gloves
- suitable for beard and spectacle wearers

APPLICATION AREAS:

- Fire Department
- Emergency and Rescue Organisations
- Industrial Applications
- Oil, gas, chemical industry
- Sewage industry
- Authorities / Public Safety
- Police / Military

APPROVALS:

- EN 12941: TH3 blower respiratory protection
- EN 14594: 3B with compressed air regulator valve
- EN 14605: Type 3B liquid-tight protective suits
- EN 14605: Type 4B spray-tight protective suits
- EN 1073-2: protection against solid radioactive particles
- EN 14126: protection against infectious agents
- EN 13688: Protective clothing - General requirements

PHYSICAL PROPERTIES		
Norm		Class
EN 530	Abrasion resistance	6
ISO 7854	Flex cracking resistance	5
ISO 7854	Flex cracking resistance at low Temperatures (-30 °C)	2
ISO 9073-4	Trapezoidal tear resistance	5
EN ISO 13938	Burst strength	6
EN ISO 13934-1	Tensile strength	6
EN 863	Puncture resistance	3
EN 13274-4	Ignition resistance	3
EN ISO 13935-2	Seam strength resistance	6



e-breathe Splash Overpressure Suit



Panoramic Visor

The Anti-Fog visor offers a large field of vision.

Neck Collar

Adjustable, air-permeable neck collar for sufficient airflow in the hood. Allows excess air to flow into the body area for cooling.

Liquid-tight Zipper

Access at the front with flexible and liquid-tight zipper.

Reinforcements at Knees & Elbows

Reinforced arms and legs for toughest working conditions.

Integrated booties + boot cover (optional)

The booties are worn in boots or shoes.

Optionally, the suit can be made with a boot cover. The covers prevent liquid from running into the boots.



Compressed Air Supply (optional)

In an emergency, the user can be supplied with compressed air via the emergency valve using a compressed air adapter.

e-breathe Glove Adapter System

The e-breathe glove adapter system enables the use with different gloves. Thanks to the Protect Clip Adapter, each glove can be connected liquid-tight to the suit.

Inner Chest Pocket (optional)

The suit optionally has a breast pocket inside the suit, e.g. for walkie-talkie.

Attached Boots (optional)

The boot can be manufactured optionally with attached safety boots.

Material

- High chemical resistance
 - Strong mechanical strength
- Elastomer-coated film/fabric carrier; polyamide carrier fabric; butyl inner layer; welded seams

4

5

e-breathe Splash Overpressure Suit



Inside Suit:

Hose Connection / Breathing Air Hose

The flexible breathing air hose can be attached above the hood or directly in front of the mouth. Optionally, a replaceable mouthpiece can be attached to the breathing air hose for emergency situations.



Inside Suit:

Internal PAPR

The blower is worn inside the suit and supplies fresh air at a rate of 160-200 l/min into the suit via a breathing tube.

Display window inside the suit indicating the filter status, the current remaining operation time and the current volume flow.

- 3 warning devices
- low noise level
- exchangeable battery
- optionally with filter shower caps

Outside Suit:

Hose Connection

The flexible breathing air hose is securely attached to the adapter above the hood using the simple e-breathe click system.

External Compressed Air Regulator Valve

The compressed air regulator valve is worn outside the suit and delivers the air with 160-280 l/min via a breathing hose into the suit.

- Warning device with 90 Db
- low noise level

Four Exhalation Valves (1-4)

Two valves at the head and two at the legs regulate the air pressure and ensure a low CO2 concentration. In addition, they allow full freedom of movement.



e-breathe Splash Inside + Outside

Order Information






Overpressure Protective Suit: e-breathe Splash Inside			
Article Name:			Part No.
e-breathe Splash Suit Inside Size S			
Model: Internal PAPR, booties, conical sleeve			on request
Model: Internal PAPR, conical sleeve, attached boots (specify size)			on request
e-breathe Splash Suit Inside Size M			
Model: Internal PAPR, booties, conical sleeve			on request
Model: Internal PAPR, conical sleeve, attached boots (specify size)			on request
e-breathe Splash Suit Inside Size L			
Model: Internal PAPR, booties, conical sleeve			322008143
Model: Internal PAPR, conical sleeve, attached boots (specify size)			322008133
e-breathe Splash Suit Inside Size XL			
Model: Internal PAPR, booties, conical sleeve			322008144
Model: Internal PAPR, conical sleeve, attached boots (specify size)			322008134
e-breathe Splash Suit Inside Size XXL			
Model: Internal PAPR, booties, conical sleeve			on request
Model: Internal PAPR, conical sleeve, attached boots (specify size)			on request
e-breathe Splash Training / Practice Suit			on request
For exercise and training purposes a special and economical trainer version is available. It is made of a non-chemical resistant PVC coating on polyester fabric and is used exclusively for training purposes.			

Overpressure Protective Suit: e-breathe Splash Outside			
Article Name:			Part No.
e-breathe Splash Suit Outside Size S			
Model: External air source, conical sleeve, booties			on request
Model: External air source, conical sleeve, attached boots (specify size)			on request
e-breathe Splash Suit Outside Size M			
Model: External air source, conical sleeve, booties			on request
Model: External air source, conical sleeve, attached boots (specify size)			on request
e-breathe Splash Suit Outside Size L			
Model: External air source, conical sleeve, booties			322008123
Model: External air source, conical sleeve, attached boots (specify size)			322008113
e-breathe Splash Suit Outside Size XL			
Model: External air source, conical sleeve, booties			322008124
Model: External air source, conical sleeve, attached boots (specify size)			322008114
e-breathe Splash Suit Outside Size XXL			
Model: External air source, conical sleeve, booties			on request
Model: External air source, conical sleeve, attached boots (specify size)			on request
e-breathe Splash Training / Practice Suit For exercise and training purposes a special and economical trainer version is available. It is made of a non-chemical resistant PVC coating on polyester fabric and is used exclusively for training purposes.			on request

e-breathe Splash

Spare Parts & Accessories

Individual Suit Extras: e-breathe Splash	
Article Name:	Part No.
e-breathe Splash Chest Pocket Inside	on request
- Size 1 = 70 x 35 x 95	1
- Size 2 = 80 x 50 x 190	2
- Size 3 = 90 x 65 x 220	3
- Size 4 = 90 x 40 x 300	4
e-breathe Splash Labelling Outside	on request
max. height of letters 100 mm / max. length 500 mm	

Spare Parts & Accessories: e-breathe Splash		
Article Name:	Part No.	Image
-breathe Exhalation Valve	23010300	
e-breathe Flutter Valve	322004045	
e-breathe Exhalation Valve Closure Caps	230103010	
e-breathe Adapter Emergency Ventilation	322004051	
e-breathe ESA Sealing Plug	322004052	
e-breathe ESA Adapter	322004053	
e-breathe Anti-Fog Spray	coming soon	no image available yet
e-breathe Splash Suit Repair Kit	coming soon	no image available yet
Includes: Fabric patches, masking tape, brush, glue & repair instructions		
e-breathe ESA Emergency CA Adapter	322004058	

Glove Adapter System

Order Information

The e-breathe glove adapter system enables a liquid-tight connection of elastomer gloves with all protective suits of class III type 3, 4, 5 or 6.

The black sealing ring ensures a firm connection between suit and glove. Depending on the selected glove and the thickness of the suit material, the sealing ring can be attached or removed.

The ring is attached to the white adapter ring and snaps firmly into the front groove of the ring. The adapter ring is completely clamped into the glove with the sealing ring in the front groove. The prepared glove is then inserted into the sleeve of the suit until the adapter ring reaches the sleeve hem.

Finally, the yellow Protect clip is clicked from the outside over the sleeve onto the adapter ring. The clip on the Protect-Clip is used to loosen the glove adapter after use. A glove adapter that has not been damaged by use can be used again and again.



Spare Parts & Accessories: e-breathe Glove Adapter System		
Article Name	Part No.	Image
e-breathe Glove Adapter System (PU 2)	302001115	
e-breathe Protect-Clip (PU 2)	230002002	
e-breathe Protect-Clip without clip(PU 2)	302991115	
e-breathe Distance Ring (PU 2)	142002005	
e-breathe Adapter Ring (PU2)	230002001	
e-breathe Opener Optional Unlocking Tool	322002116	
e-breathe Lock-Tool Optional Assembly Tool	322002115	

e-breathe Splash

Breathing Air Hoses



In the exceptional circumstance of a blower failure or if it is not possible to leave the danger zone in time, the user can be supplied with breathable air by an emergency hose. For this purpose a mouthpiece is attached to the end of the blower hose. In an emergency, the user can use his own lung power to suck in breathable and filtered air through the blower hose and the connected blower. The mouthpiece is removable and can be cleaned and disinfected or replaced after each use. For hygienic reasons, a separate mouthpiece can be purchased for each user.

Breathing Air Hoses with DIN Connection				
Article Name	Part No.	Material	For use with	
Breathing Air Hose ESA without Mouthpiece	322004055	PU- flexible	PM Chemical Grey Inside, e-breathe Splash Inside	
	322004056	PU - fixed length		
	322004054	ESA Mouthpiece		
Breathing Air Hose e-breathe Inside	302001110	PU - flexible	PM Chemical Grey Inside, e-breathe Splash Inside	
	302001111	PU - fixed length		
Breathing Air Hose e-breathe Click	302001109	PU - flexible	e-breathe Multi-Hood, PM Labhood AV, PM Chemical Hood, PM Chemical Grey Outside	
	302011109	PU - fixed length		
Protective Cover for Hose	116001041	Limited-Use	Compatible with all PM & e-breathe Breathing Air Hoses	

Accessories: e-breathe Chemical Suits / Splash		
Article Name	Part No.	Image
Protective Boots Suitable protective boots are available on request, depending on requirements.	on request	
Protective Gloves Suitable protective gloves are available on request, depending on requirements.	on request	
Undergarment Moisture-absorbing garments for more comfort when working with protective suits.	70001260x Size M-XL	

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.



Starter-Packs		
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	322005099	
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 Wall Mount for Charging Station	322005004	
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	
Aluminized Protective Coating for e-Flow Filter-Box	223100401	
for e-Flow PAD-Box	223100402	

Unencapsulated filters with DIN ROUND THREAD CONNECTION according to EN 143 / EN 14387 / EN 12941 / EN 12942				
Filter	Art. no.	For use against:	Colour Code	Image
Particle Filter (consisting of ecoPAD P3 & filter housing)				
e-breathe Particle Filter P3 R / PSL	322002109	Unencapsulated filter for use against solid and liquid toxic, radioactive and harmful particles as well as microorganisms such as bacteria and viruses.		
e-breathe ecoPAD P3 R / PSL (PU 4)	322002110	Replacement filter media for e-breathe particle filters		
Gas Filter (consisting of ecoPAD GF & gas filter adapter)				
e-breathe Gas Filter A2	322002147	Organic gases and vapours, such as solvents, with a boiling point above 65 °C.		
e-breathe ecoPAD GF A2	322002144	Organic gases and vapours, such as solvents, with a boiling point above 65 °C. - Replacement Gas Filter PAD		
e-breathe Gas Filter A2B2	322002148	Organic and inorganic gases and vapours.		
e-breathe ecoPAD GF A2B2	322002145	Organic and inorganic gases and vapours. - Replacement Gas Filter PAD		
e-breathe Gas Filter A2B2E2K1	322002146	Organic, inorganic and acid gases and vapours, as well as ammonia.		
e-breathe ecoPAD GF A2B2E2K1	322002143	Organic, inorganic and acid gases and vapours, as well as ammonia. - Replacement Gas Filter PAD		
Combination Filter (consisting of Particle Filter & Gas Filter)				
e-breathe Combination Filter A2-P3 R / PSL	322012147	Organic gases and vapours, such as solvents, with a boiling point above 65 °C, solid and liquid particles, radioactive and toxic particles, and microorganisms.		
e-breathe Combination Filter A2B2-P3 R / PSL	32201218	Organic and inorganic gases and vapours, solid and liquid particles, radioactive and toxic particles and microorganisms.		
e-breathe Combination Filter A2B2E2K1-P3 R / PSL	322012146	Protection against organic, inorganic and acid gases and vapours, as well as ammonia and organic ammonia derivatives, solid and liquid particles harmful to health, such as radioactive and toxic substances and microorganisms.		
Components: e-breathe Filter Housing				
e-breathe Filter Cover	322002131	Screwed onto e-Flow PAD box, filter holder or gas filter adapter to use / seal the ecoPAD P3.		
e-breathe Gas Filter - Adapter	Coming soon	Screwed onto the e-Flow PAD box or filter holder to use / seal the ecoPAD GF.		
e-breathe Filter Holder	322002128	A DIN round thread connection is required to use the filters with half / full mask or e-Flow filter box.		

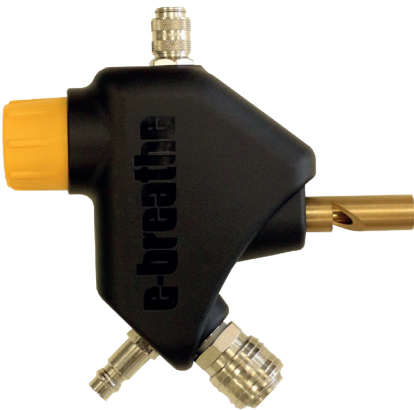
e-breathe e-Line

Compressed Air Control Valve

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	

1213

e-breathe Compressed Air Filter Station

Compressed Air Filter Station



The e-breathe compressed air filter station has been designed for the preparation of technical compressed air. The high performance filters included in the respective stations capture and remove solid particles, aerosols, oil vapours and odours from the compressed air flowing through. Depending on the application, a 2-stage or 3-stage filter system can be used.

The compressed air flowing through from the high-pressure network/compressor is converted into breathing air for externally ventilated respiratory protection systems. The breathable air will be led by a compressed air control valve via a hose to the head section/suit of the wearer. The station can optionally be extended for up to 3 users.

Filter function: The filter elements M* / S* separate the solids by impact and inertia effect. Oil and water aerosols are removed by the coalescence effect. Due to the gravitational effect, the filtered-out liquid particles are collected in the lower filter container where they are automatically discharged. The filter element CA* adsorbs oil vapours and odours which are deposited in the activated carbon.

*M = micro filter, S = submicro filter & CA = activated carbon filter

- The Compressed Air Filter Station is available in 4 versions:**
with robust housing for mobile use:
- e-breathe CA Filter Station 2 PRO V.1 (Station with 2 Filters: S/CA)
 - e-breathe CA Filter Station 3 PRO V.1 (Station with 3 Filters: M/S/CA)
- with wall mounting bracket for stationary use (WH):
- e-breathe CA Filter Station 2 WH PRO V.1 (with WH and 2 Filters: S/CA)
 - e-breathe CA Filter Station 3 WH PRO V.1 (with WH and 3 Filters: M/S/CA)

Compressed Air Filters (DFS): e-breathe e-Line Compressed Air Filters PRO		
Article Name:	Part Number	Image
e-breathe Compressed Air Filter Station 2 PRO V.1	322008201	
e-breathe Compressed Air Filter Station 3 PRO V.1	322008301	
e-breathe CA Filter Station 2 WH PRO V.1	322008200	
e-breathe CA Filter Station 3 WH PRO V.1 (with wall mount)	322008300	

Compressed Air Hoses		
Article Name:	Part Number	Image
e-breathe DFS Compressed Air Hose EPDM	3020611xx	
- 5m	05	
- 10m	10	
- 20m	20	
- 30m	30	
e-breathe DFS Compressed Air Hose PU/PVC	3020612xx	
- 5m	10	
- 15m	15	
- 20m	20	
- 30m	30	

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