



Chemical Suits

Overpressure Protection Suits
for PAPR & Compressed Air



e-breathe Chemical Suits

Overpressure Suits

| European Standards for Chemical Protective Clothing | | |
|---|---|--------|
| EN Norm | Description | Symbol |
| Kat. III | Protective clothing for high risks Protective suits designed to protect against high hazards and fatal hazards. The user must be able to rely on the PPE due to the danger. | |
| Type 1 EN 943-1 & 2 | Gas-tight chemical protective suits Protective suits against liquid and gaseous chemicals, aerosols and solid particles. | |
| Type 2 EN 943-1 | Non-gas-tight chemical protective suits Protective suits that maintain a constant overpressure to prevent the ingress of dust, liquids and gases. | |
| Type 3 EN 14605 | Liquid-tight protective suits Protective suits that protect against strong and directed jets of liquid chemicals. | |
| Type 4 EN 14605 | Spray-tight protective suits Protective suits that protect against strong and directed jets of liquid chemicals. | |
| Type 5 EN ISO 13982-1 | Particle tight protective suits Protective suits that protect against saturation with liquid chemicals. | |
| Type 6 EN 13034 | Conditionally spray-tight protective suits Protective suits that provide limited protection against light spray and liquid chemicals. | |
| EN 1073-1 EN 1073-2 | Protective clothing against radioactive particles / contamination Ventilated protective clothing against contamination by radioactive solid particles. Protective clothing against contamination by radioactive solid particles. | |
| B EN 14126 | Protective clothing against infectious agents The addition of the letter „B“ (e.g. Type 3B) to the type indicates conformity with this European Standard. | |
| EN 1149-5 | Antistatic properties Protective clothing with antistatic properties. | |
| EN ISO 14116 | Flame resistance Protective clothing made of materials and material combinations with limited flame spread. | |
| TH3 EN 12941 | Respiratory protection Respiratory protection devices / systems: Blower filter devices with helmet, hood or suit. | |
| 3B EN 14594 | Respiratory protection Respiratory protection devices / systems: Compressed air hose devices with continuous air flow. | |

Selection

| Material Overview | | |
|-------------------|--|--|
| Material + Color | Description | Suit Types |
| Tessaform | Heavy Industrial Applications CBRN: Exceptionally high barrier performance against a variety of concentrated chemicals. The multi-layer material is known for its durability and comfort. Tested against more than 100 substances, including chemical warfare agents. | Type 2 / 3 / 4 / 5 / 6, EN 1073, EN 1149, EN 14126, EN 14116 |
| Duoform | Medium Industrial Applications NBC: The durable material offers extremely effective protection against chemicals and biological hazards. Tested against more than 70 chemicals. | Type 3 / 4 / 5 / 6, EN 1073, EN 1149, EN 14126, EN 14116 |
| Puntiform | Light Industrial Applications ABC: Lightweight material with very good mechanical strength and high protection against biological hazards. Tested against more than 30 chemicals. | Type 4 / 5 / 6, EN 1073, EN 1149, EN 14126 |

e-breathe Chemical Grey Inside / Outside

| | | | | |
|----------|---------|----------|---------|---------|
| Kat. III | Type 3B | Type4B | Type 5 | Type 6 |
| | | | | |
| EN1073-2 | EN14126 | EN1149-1 | EN12941 | EN14594 |
| | | | | |








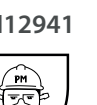



e-breathe Chemical Yellow Inside / Outside

| | | | | |
|----------|---------|----------|---------|---------|
| Kat. III | Type 3B | Type 4B | Type 5 | Type 6 |
| | | | | |
| EN1073-2 | EN14126 | EN1149-1 | EN12941 | EN14594 |
| | | | | |



e-breathe Chemical White Inside / Outside

| | | | | |
|---|---|---|---|---|
| Kat. III | Type 4B | Type 5 | Type 6 | |
|  |  |  |  | |
| EN1073-2 | EN14126 | EN1149-1 | EN12941 | EN14594 |
|  |  |  |  |  |



e-breathe Chemical Grey CBRN

Overpressure Suit



The e-breathe Chemical Grey CBRN is a one-piece overpressure breathing suit that provides maximum protection against gases, vapors, solid and liquid chemicals, and radioactive contamination. The suit is used in combination with an approved respiratory blower (PAPR) or compressed air regulator. The Chemical Grey is available in two versions, with an internal blower or external air source.

CHEMICAL GREY INSIDE: INTERNAL POWERED, AIR-PURIFYING RESPIRATOR (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.

- Model:
- e-breathe Chemical Grey Inside: certified with e-breathe e-Flow PAPR
 - PM Chemical Grey Inside: certified with PM Proflow PAPR

CHEMICAL GREY 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.

HIGH SECURITY AND FLEXIBILITY

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

CBRN PROTECTIVE SUIT FOR TOUGHEST CONDITIONS

The grey Tessaform material consists of a high-quality, special laminate. Due to the resulting durability and mechanical resilience, the suit can be used in a wide range of applications. The laminate offers protection against chemical warfare agents (such as sarin, mustard gas).

MAXIMUM COMFORT

The suit is manufactured in a Y-cut and allows the user maximum freedom of movement. The special cut allows the user to reach into the inside of the suit at any time (e.g. for drinking) and easily take it off without coming into contact with the external suit material. The air-permeable neck seal not only ensures an optimum air flow inside the hood, but also allows the excess air to flow into the body area of the suit, thus providing indirect cooling and improved air circulation.

OPTIONAL TRAINING VERSION:

For exercise and training purposes, a trainer version with Velcro fastener on the cover is available. It is used exclusively for training purposes. It is available in different colours and materials to prevent a confusion.

e-breathe Chemical Grey CBRN

Overpressure Suit



PRODUCT CHARACTERISTICS:

- Panoramic Visor with distortion-free field of view
- Emergency Exit: fast release in emergency situations
- Optimum balance between protection and comfort with sufficient distribution of the outflowing air in the suit
- Material: Tessaform (known for its durability and comfort)
- Maximum protection against gases, vapours, solid and liquid chemicals and radioactive contamination
- Integrated socks with or without outsole

AREAS OF APPLICATION:

- Industrial applications
- Oil, gas, chemical industry
- Pharmaceutical Industry & Laboratories
- Sanding & Spray Painting
- Authorities / Public Safety
- Police / Military
- Fire brigade (ABC department, decontamination)
- Relief and rescue organisations
- Farming and agriculture

APPROVALS:

- EN 12941: TH3 with blower filter unit
- EN 14594: 3B with compressed air regulator valve
- EN 14605: Type 3 liquid-tight protective suits
- EN 14605: Type 4 spray-tight protective suits
- EN 13982: Type 5 particle-tight protective suits
- EN 13034: Type 6 conditional spray-tight protective suits
- EN 1073-2: Protection against solid radioactive particles
- EN 14126: Type 3B / 4B / 5B Protection against infectious agents
- EN 1149-1: Antistatic properties
- EN 13688: Protective clothing - General requirements

| PHYSICAL PROPERTIES: GREY | | |
|---------------------------|-----------------------------|--------------------|
| Norm | | Class 1 - 6 |
| EN 530 | Abrasion resistance | 6 |
| ISO 7854 | Flex cracking resistance | 4 |
| ISO 9073-4 | Trapezoidal tear resistance | 5 |
| EN ISO 13938-1 | Burst strength | 2 |
| EN ISO 13934-1 | Tensile strength | 3 |
| EN 863 | Puncture resistance | 2 |
| EN 13274-4 | Ignition resistance | self-extinguishing |
| EN ISO 13935-2 | Seam strength resistance | 4 |



e-breathe Chemical Grey CBRN

Overpressure Suit



6 7

e-breathe Chemical Grey CBRN

Overpressure Suit



Panoramic Visor

The visor offers the user a large, distortion-free field of view. A constant air flow inside the hood prevents the fogging of the visor.

Emergency Exit

For a quick release in emergency situations or in case of unexpected shortness of breath.



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.



Neck Collar

Adjustable, air-permeable neck collar for sufficient airflow inside the hood. Allows excess air to flow into the body area for cooling and a comfortable climate.

Entrance / Front Zipper

Horizontal entrance at the front with double self-adhesive zipper cover.



Exit

The suit can be taken off by the user (not recommended). An easy undressing is possible by simply cutting the back of the suit.

Integrated Boots + Boot Cover

The integrated boots with durable outsole are worn inside the boot/shoe.



The boot cover is worn over the boot and prevents liquid from penetrating the boot/shoe.

Optional with Outsole

The suit can be customized on request with a durable, slip-resistant outsole without a boot cover. It is possible to wear safety shoes inside the booties.



Four Exhalation Valves on the Suit (1-4)

Two valves on the head and two on the legs regulate the air pressure and ensure a low CO2 concentration. They facilitate and allow full freedom of movement without the risk of strong pressure fluctuations. Additional splash cover made of suit material.

Inside Version: Internal PAPR / Blower

The blower is worn inside the suit and delivers the air at 160-200 l/min through a breathing hose into the suit.

The display window in the suit shows the filter status, the current remaining operating time and the current airflow.



Hose Connection / Breathing Air Hose

Internally, the flexible breathing air hose can be attached above the hood or directly in front of the mouth. Optionally, an exchangeable mouthpiece can be mounted to the breathing air hose for emergency situations.



Outside Version: External Air Source

The air source (blower or compressed air control valve) is worn outside the suit and delivers the air at a rate of 160-280 l/min through a breathing hose into the suit.

Hose Connection




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



| e-breathe Chemical Grey Inside | | | |
|--|------------------------|-------------------------|------------|
| Article name | | | Art.-Nr. |
| e-breathe Chemical Inside Size S | Body Height: 164-170cm | Chest Height: 84-92cm | |
| Model: Internal e-Flow PAPR, conical sleeve, booties with boot cover | | | 322009121 |
| Model: Internal e-Flow PAPR, conical sleeve, booties with outsole | | | On request |
| e-breathe Chemical Inside Size M | Body Height: 170-176cm | Chest Height: 82-100cm | |
| Model: Internal e-Flow PAPR, conical sleeve, booties with boot cover | | | 322009122 |
| Model: Internal e-Flow PAPR, conical sleeve, booties with outsole | | | On request |
| e-breathe Chemical Inside Size L | Body Height: 176-182cm | Chest Height: 100-108cm | |
| Model: Internal e-Flow PAPR, conical sleeve, booties with boot cover | | | 322009123 |
| Model: Internal e-Flow PAPR, conical sleeve, booties with outsole | | | On request |
| e-breathe Chemical Inside Size XL | Body Height: 182-188cm | Chest Height: 108-122cm | |
| Model: Internal e-Flow PAPR, conical sleeve, booties with boot cover | | | 322009124 |
| Model: Internal e-Flow PAPR, conical sleeve, booties with outsole | | | On request |
| e-breathe Chemical Inside Size XXL | Body Height: 188-203cm | Chest Height: 122-135cm | |
| Model: Internal e-Flow PAPR, conical sleeve, booties with boot cover | | | 322009125 |
| Model: Internal e-Flow PAPR, conical sleeve, booties with outsole | | | On request |
| e-breathe Chemical Inside Training / Practice Suit For practice and training purposes, a special trainer version with Velcro fastener is available to enable the suit to be opened again. It is used exclusively for training purposes. | | | On request |

| PM Chemical Grey Inside | | | |
|--|------------------------|-------------------------|------------|
| Article name | | | Art.-No. |
| PM Chemical Grey Inside Size S | Body Height: 164-170cm | Chest Height: 84-92cm | Grey |
| Model: Internal Proflow PAPR, conical sleeve, booties with boot cover | | | 700009121 |
| Model: Internal Proflow PAPR, conical sleeves, booties with outsole | | | On request |
| PM Chemical Grey Inside Size M | Body Height: 170-176cm | Chest Height: 82-100cm | |
| Model: Internal Proflow PAPR, conical sleeve, booties with boot cover | | | 700009122 |
| Model: Internal Proflow PAPR, conical sleeves, booties with outsole | | | On request |
| PM Chemical Grey Inside Size L | Body Height: 176-182cm | Chest Height: 100-108cm | |
| Model: Internal Proflow PAPR, conical sleeve, booties with boot cover | | | 700009123 |
| Model: Internal Proflow PAPR, conical sleeves, booties with outsole | | | On request |
| PM Chemical Grey Inside Size XL | Body Height: 182-188cm | Chest Height: 108-122cm | |
| Model: Internal Proflow PAPR, conical sleeve, booties with boot cover | | | 700009124 |
| Model: Internal Proflow PAPR, conical sleeves, booties with outsole | | | On request |
| PM Chemical Grey Inside Size XXL | Body Height: 188-203cm | Chest Height: 122-135cm | |
| Model: Internal Proflow PAPR, conical sleeve, booties with boot cover | | | 700009125 |
| Model: Internal Proflow PAPR, conical sleeves, booties with outsole | | | On request |
| PM Chemical Grey Inside Training / Practice Suit For practice and training purposes, a special trainer version with Velcro fastener is available to enable the suit to be opened again. It is used exclusively for training purposes. | | | On request |

| PM Chemical Grey Outside | | | |
|--|------------------------|-------------------------|------------|
| Article name | | | Art.-No. |
| Chemical Grey Outside Size S | Body Height: 164-170cm | Chest Height: 84-92cm | Grey |
| Model: External air source, conical sleeves, booties with boot cover | | | 700009211 |
| Model: External air source, conical sleeves, booties with outsole | | | On request |
| Chemical Grey Outside Size M | Body Height: 170-176cm | Chest Height: 82-100cm | |
| Model: External air source, conical sleeves, booties with boot cover | | | 700009212 |
| Model: External air source, conical sleeves, booties with outsole | | | On request |
| Chemical Grey Outside Size L | Body Height: 176-182cm | Chest Height: 100-108cm | |
| Model: External air source, conical sleeves, booties with boot cover | | | 700009213 |
| Model: External air source, conical sleeves, booties with outsole | | | On request |
| Chemical Grey Outside Size XL | Body Height: 182-188cm | Chest Height: 108-122cm | |
| Model: External air source, conical sleeves, booties with boot cover | | | 700009214 |
| Model: External air source, conical sleeves, booties with outsole | | | On request |
| Chemical Grey Outside Size XXL | Body Height: 188-203cm | Chest Height: 122-135cm | |
| Model: External air source, conical sleeves, booties with boot cover | | | 700009215 |
| Model: External air source, conical sleeves, booties with outsole | | | On request |
| Chemical Grey Outside Training / Practice Suit For practice and training purposes, a special trainer version with Velcro fastener is available to enable the suit to be opened again. It is used exclusively for training purposes. | | | On request |

| Spare Parts & Accessories: Chemical Grey | | |
|--|-----------|---|
| Article name | Art.-No. | Image |
| e-breathe Exhalation Valve | 23010300 |  |
| e-breathe Flutter Valve | 322004045 | |
| e-breathe ESA Adapter | 322004053 |  |
| PM GSA Adapter | 116010806 |  |

e-breathe Chemical White

Overpressure Suit



The **e-breathe Chemical White** is the next generation of the PM Blower Suit. The one-piece overpressure respiratory protective suit offers protection against vapors, solid and liquid chemicals, as well as radioactive contamination. The suit is used in combination with an approved respiratory blower (PAPR) or compressed air regulator. The **e-breathe Chemical White** is available in two versions, with an internal blower or external air source.

CHEMICAL WHITE INSIDE: INTERNAL POWERED, AIR-PURIFYING RESPIRATOR (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.

- Model:
- e-breathe Chemical White Inside: certified with **e-breathe e-Flow PAPR**

CHEMICAL WHITE 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.

HIGH SECURITY AND FLEXIBILITY

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

SUIT MATERIAL (STERILE VERSION)

The white Puntiform material is low-noise, robust, crease- and lint-free and has a high resistance and mechanical load-bearing capacity. If required, the suit is available in a sterile version with product protection exhalation valve. Due to its material properties, the suit is suitable for a wide range of applications.

MAXIMUM COMFORT

The suit is manufactured in a Y-cut and allows the user maximum freedom of movement. The special cut allows the user to reach into the inside of the suit at any time and easily deposit it without coming into contact with the outer suit material.

ADJUSTABLE NECK SEAL

The air-permeable and adjustable neck seal with drawcord not only ensures an optimum air flow inside the hood, but also allows excess air to flow into the body area of the suit, thus providing indirect cooling and improved air circulation.

OPTIONAL TRAINING VERSION:

For exercise and training purposes, a trainer version with Velcro fastener on the cover is available. It is used exclusively for training purposes. It is available in different colours and materials to prevent a confusion.

e-breathe Chemical White

Overpressure Suit



PRODUCT CHARACTERISTICS:

- Panoramic Visor with distortion-free field of view
- Emergency Exit: fast release in emergency situations
- Material: Puntiform (excellent against infectious materials)
- Air and water vapour permeable („breathable“) to minimise heat stress risk
- Neck collar with drawcord for adjustment
- Available as sterile version with product protection exhalation valve

AREAS OF APPLICATION:

- Industrial applications / -cleaning
- Virus contaminated areas
- Protection against biological infectious agents
- Hospitals
- Pharmaceutical industry, clean rooms & laboratories
- Sanding & Spray Painting
- Authorities / Public Safety
- Relief and rescue organisations
- Nuclear power industry

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 13982: Type 5 particle-tight protective suits
- EN 13034: Type 6 conditional spray-tight protective suits
- EN 1073-2: Protection against solid radioactive particles
- EN 14126: Type 4B / 5B Protection against infectious agents
- EN 1149-1: Antistatic properties
- EN 13688: Protective clothing - General requirements

| PHYSICAL PROPERTIES: WHITE | | |
|----------------------------|-----------------------------|--------------------|
| Norm | | Class 1 - 6 |
| EN 530 | Abrasion resistance | 3 |
| ISO 7854 | Flex cracking resistance | 6 |
| ISO 9073-4 | Trapezoidal tear resistance | 3 |
| EN ISO 13938-1 | Burst strength | 3 |
| EN ISO 13934-1 | Tensile strength | 3 |
| EN 863 | Puncture resistance | 2 |
| EN 13274-4 | Ignition resistance | self-extinguishing |
| EN ISO 13935-2 | Seam strength resistance | 4 |





Panoramic Visor

The visor offers the user a large, distortion-free field of view. A constant air flow inside the hood prevents fogging of the visor.

Neck Collar

Adjustable, air-permeable neck collar for sufficient airflow inside the hood. Allows excess air to flow into the body area for cooling and a comfortable climate.

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.

Integrated Booties + Boot Cover (optional)

The integrated booties with hard-wearing outsole are worn inside the boot/shoe.

The boot cover is worn over the boot and prevents the penetration of liquid into the boot/shoe.

Optional with Outsole

The suit can be customized on request with a durable, slip-resistant outsole without a boot cover. It is possible to wear safety shoes inside the booties.

Emergency Exit

For a quick release in emergency situations or in case of unexpected shortness of breath.

Entrance / Front Zipper

Horizontal entrance at the front with double self-adhesive zipper cover.

Exit

The suit can be taken off by the user (not recommended). Easy undressing possible by simply cutting the back of the suit.

Sterile Version

Available as sterile version with product protection exhalation valve.



Four Exhalation Valves on the Suit (1-4)

Two valves at the head and two at the legs regulate the air pressure and ensure a low CO₂ concentration. They facilitate and additionally allow full freedom of movement without strong pressure fluctuations. Additional splash cover made of suit material.

Outside Model:

External Air Source

The air source (PAPR or compressed air regulator) is carried outside the suit and delivers the air with 160-280 l/min into the suit via a breathing hose.

Hose Connection

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

Inside Model:

Internal PAPR

The blower is worn inside the suit and delivers the air at 160-200 l/min via a breathing hose into the suit.

Display window inside the suit with display of the filter status, the current remaining time and the current volume flow.

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

Hose Connection / Breathing Air Hose

Inside, the flexible breathing air hose can be attached above the hood or directly in front of the mouth.

Optionally, a replaceable mouthpiece can be mounted on the breathing air hose for emergency situations.



e-breathe Chemical White

Order Information

| e-breathe Chemical White Inside | | | |
|--|------------------------|-------------------------|------------|
| Article Name | | | Art.-No. |
| e-breathe Chemical Inside Size S | Body Height: 164-170cm | Chest Height: 84-92cm | |
| Model: Internal e-Flow PAPR, conical sleeve, booties with boot cover | | | 322009141 |
| Model: Internal e-Flow PAPR, conical sleeve, booties with outsole | | | On request |
| e-breathe Chemical Inside Size M | Body Height: 170-176cm | Chest Height: 82-100cm | |
| Model: Internal e-Flow PAPR, conical sleeve, booties with boot cover | | | 322009142 |
| Model: Internal e-Flow PAPR, conical sleeve, booties with outsole | | | On request |
| e-breathe Chemical Inside Size L | Body Height: 176-182cm | Chest Height: 100-108cm | |
| Model: Internal e-Flow PAPR, conical sleeve, booties with boot cover | | | 322009143 |
| Model: Internal e-Flow PAPR, conical sleeve, booties with outsole | | | On request |
| e-breathe Chemical Inside Size XL | Body Height: 182-188cm | Chest Height: 108-122cm | |
| Model: Internal e-Flow PAPR, conical sleeve, booties with boot cover | | | 322009144 |
| Model: Internal e-Flow PAPR, conical sleeve, booties with outsole | | | On request |
| e-breathe Chemical Inside Size XXL | Body Height: 188-203cm | Chest Height: 122-135cm | |
| Model: Internal e-Flow PAPR, conical sleeve, booties with boot cover | | | 322009145 |
| Model: Internal e-Flow PAPR, conical sleeve, booties with outsole | | | On request |
| e-breathe Chemical Inside Training / Practice Suit For practice and training purposes, a special trainer version with Velcro fastener is available to enable the suit to be opened again. It is used exclusively for training purposes. | | | On request |

| Spare Parts & Accessories: Chemical White | | |
|---|-----------|---|
| Article Name: | Part No. | Image |
| e-breathe Exhalation Valve | 23010309 |  |
| Product Protection e-breathe Product Protection Fleece (PU 50) | 101052692 | |
| e-breathe Exhalation Valve | 23010300 |  |
| e-breathe Flutter Valve | 322004045 | |
| e-breathe ESA Adapter | 322004053 |  |
| e-breathe GSA Adapter | 116010806 |  |

e-breathe Chemical White

Order Information

| e-breathe Chemical White Outside | | | |
|---|------------------------|-------------------------|------------|
| Article Name | | | Art.-No. |
| Chemical Outside Size S | Body Height: 164-170cm | Chest Height: 84-92cm | |
| Model: External air source, conical sleeves, booties with boot cover | | | 322009131 |
| Model: External air source, conical sleeves, booties with outsole | | | On request |
| Chemical Outside Size M | Body Height: 170-176cm | Chest Height: 82-100cm | |
| Model: External air source, conical sleeves, booties with boot cover | | | 322009132 |
| Model: External air source, conical sleeves, booties with outsole | | | On request |
| Chemical Outside Size L | Body Height: 176-182cm | Chest Height: 100-108cm | |
| Model: External air source, conical sleeves, booties with boot cover | | | 322009133 |
| Model: External air source, conical sleeves, booties with outsole | | | On request |
| Chemical Outside Size XL | Body Height: 182-188cm | Chest Height: 108-122cm | |
| Model: External air source, conical sleeves, booties with boot cover | | | 322009134 |
| Model: External air source, conical sleeves, booties with outsole | | | On request |
| Chemical Outside Size XXL | Body Height: 188-203cm | Chest Height: 122-135cm | |
| Model: External air source, conical sleeves, booties with boot cover | | | 322009135 |
| Model: External air source, conical sleeves, booties with outsole | | | On request |
| Chemical White Outside Training / Practice Suit For practice and training purposes, a special trainer version with Velcro fastener is available to enable the suit to be opened again. It is used exclusively for training purposes. | | | On request |

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 | |

16

17



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.

Chemical Suits

Breathing Air Hoses

| 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 | |

e-breathe e-Flow

PAPR

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.



18

19



PM Proflow


PAPR




The ergonomic design of the light and compact PM Proflow SC includes a curved back plate for more comfort and longer operating time.






The intelligent and easy to use PM Proflow SC has a number of modern improvements compared to the original Proflow concept. The automatic air-flow control guarantees a constant and balanced supply of breathable air throughout the entire working time.

The data storage function integrated in the unit records all user data to provide reliable information for service and maintenance.

The volume flow rate of this blower cannot be adjusted and is constant at 160 l/min.

| Starter-Pack: e-Flow | | | | |
|---|-------------|---|---|---|
| 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 Comfort Belt Pro | 322003003 |   | | |
| e-breathe Shoulder Strap Pro V.2 | 302063596 | | | |
| e-breathe Belt Pro | 108062786 |   | | |
| Belt Decon (easy to decontaminate) | 302062996 | | | |
| Unencapsulated ecoPAD Filters with DIN Round Thread Connection | | | | |
| Filter | Part No. | For use against: | Code | Image |
| e-breathe Particle Filter P3 R SL | 322002109 | Unencapsulated filter for use against solid and liquid toxic, radioactive and harmful particles and micro-organisms, such as bacteria and viruses. | |  |
| e-breathe Combination Filter A2B2E2K1-P3 | on request | Protects 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. |  |  |

| Starter-Pack: Proflow | | |
|---|--------------------------------------|---|
| The Starter-Pack includes: | Part Number | Image |
| PM Proflow 2 SC blower, battery, charger and comfort belt pro | | |
| PM Proflow 2-SC - 160 l/min. - Blower Unit (with Comfort Belt Pro) - Blower Unit Basic (without Belt) | 100029808 100064324 |  |
| Ersatzteile & Zubehör | | |
| Article Name: | Part Number | Image |
| Proflow 2–NiMH Battery 9,6 V/4,5 Ah | 105063790 |  |
| Charger PF for NiMH Battery | 100063791 |  |

| Enclosed Filter with DIN Round Thread Connection | | | | |
|--|------------------|--|---|---|
| Filter | Part No. | For use against: | Code | Image |
| Particle Filter PM PSL R | 100052676 | Solid and liquid toxic, radioactive and harmful particles and micro-organisms, such as bacteria and viruses. | |  |
| Combination Filter PM 22 A2-P3 PSL R | 100043173 | Organic gases and vapours, such as solvents with a boiling point above 65 °C, solid and liquid particles, radioactive and toxic particles and microorganisms. |  |  |
| Combination Filter PM 32 A2B2E2K2-P3 PSL R | 100043191 | 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. |  |  |

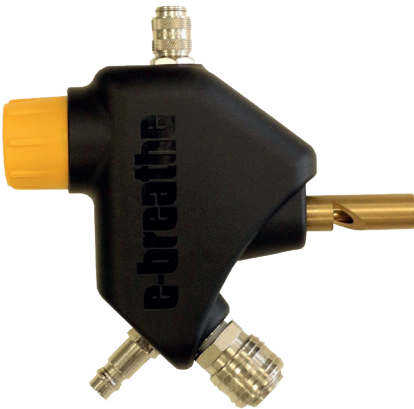
e-breathe e-Line

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 | |

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 | |

PM Atemschutz



Willicher Damm 99 – 41066 Mönchengladbach – Germany
Tel: +49 (0) 2161 / 40 290 0 Fax: +49 (0) 2161 / 40 290 20
www.PM-Atemschutz.de
info@pm-atemschutz.de

PM Shop

Online-Shop Personal Protective Equipment

www.PM-Atemschutzshop.de

e-breathe

Development of PPE

www.e-breathe.de
info@e-breathe.de

