

PM *Atemschutz*



**The specialist for
innovative solutions**

PAPR - respiratory systems

Personal protective equipment

Compressed air respiratory

The specialist for innovative solutions with regard to health and safety

In relation to respiratory protection or occupational safety the management is facing very similar challenges in all branches.

Regarding health and safety of employees, decision makers are requested to create the optimal solution for the application. When it comes to operational issues it is very important to understand and interpret not only the applicable laws and regulations but also the recommendations of the carrier of the statutory accident insurance.

It is common practice to inform you about possible devices for problem solving in the technical trade or the Internet and procure them afterwards. However, there is a wide range between fine dust mask and self-containing breathing air supply systems available. Often, solutions are implemented, which do not cover all necessary aspects and, in the worst case, are rejected by the users. PM Atemschutz recognized these conflict areas for decision makers early on and created the ideal solution through the PM full service.



• Workplace Analysis:

At the beginning stands the **analysis** of the workplace. In that regard, PM Atemschutz determines, together with the company, possible dangers at the workplace.

• Competent Advice & Practice Test:

In the following phase of consultancy possible solutions to eliminate the dangers are pointed out. Decision makers also profit from the wide range of experiences that PM Atemschutz collected over the last 25 years of operation. Also when it comes to the acceptance of users, it is recommended to put the demonstrated solutions through their paces during a **practical test**. The rejection through the workers is often based on the incorrect use of the respiratory systems. In case of an unsatisfactory test run, new alternatives can be found and further tested at short notice.

• Sales & Rental:

PM Atemschutz is an independent wholesaler for premium products in the area of respiratory protection and offers a wide range of different products from different manufacturers to offer the optimal solution for our customers. To expand our range of services PM Atemschutz also offers a broad range of rental equipment.

• Production & Logistic:

We offer a large amount of products that we keep ready in sufficient number of items in stock to ensure a fast delivery and to ensure that our products arrive just in time and exactly when they are needed.

• Training & Instruction:

The time directly after acquiring the devices through **purchase** or **rental** is very important for the later use. Human lives and health depend on our products. We therefore are committed to ensure that no risk arises from an incorrect or improper handling. We therefore offer professional trainings and instructions for users. The user is only able to properly utilize the new devices after a professional **initial briefing** and later deepening through **trainings**.

• Maintenance & Repair:

Based on the principle everything under one roof the PM service and respiratory protection technology provides service and maintenance of the new devices, but on request also for devices that are already available within the company – either on-site or in the own respiratory protection shop.

However, the PM full service does not stop with this service but it can be started from the beginning in terms of a continuous optimization.

PM Atemschutz Group - core competencies



PM Atemschutz is an independent wholesaler for premium products in the area of respiratory protection and a recognized specialist for blower respiratory protection.

Always, with regard to specialized solutions, for example in the fields of industry, fire brigades or disaster control, PM Atemschutz knows, due to its long-lasting and great experience in respiratory and body protection, how to successfully position itself and compete against renowned market players.

The services are far beyond pure trading. More often, the market demands new products, which are developed, accredited to newest standards, and manufactured by the PM Atemschutz Group.



The company PM Service and respiratory protection technology completes the performance of the wholesaler through competencies in maintenance and provision of services for respirators.

The services for blower systems, compressed air systems, and respiratory connectors of the most important premium brands, as well as the maintenance and the service for protective clothing is occurs, according to customer request, directly on-site or in the own respiratory protection shop in Mönchengladbach.

Customers are leading companies in the chemical and pharmaceutical industries, in the metalworking industry, and the automotive industry, but also hospitals, public institutions and fire brigades.



The youngest member of the PM group develops innovative respiratory protection systems according to the motto "simple, solid, safe".

Three years ago, the increasing demand of intelligent respiratory protection solutions and the striving for highest customer satisfaction through ever increasing user-friendly products led to the corporate decision to outsource the development department. The name e-breathe stems from the useful application of all possibilities of "e"lectric support for breathing.

The cooperation in development with leading universities for design and technology as well as the experiences about the markets' requirements for the products, which PM Atemschutz collected in the past 25 years, creates the basis of the current success of e-breathe.



Online-Shop for Safety-Equipment

The PM respiratory protection shop is available 24 hours every day, 365 days a year. Simply visit us online!

www.pm-atemschutzshop.de

PM Proflow2 SC 120/160

PAPR

Intelligent Safety

The ergonomic design of the light and solid PM Proflow SC includes an arched back section for higher wearing comfort during a longer operating time.

The intelligent and easy-to-use PM Proflow SC has a number of modern improvements compared to the initial Proflow concept.

The automatic airflow control guarantees a continuous and balanced supply of breathable air during the entire working time.

The integrated memory function, records all usage data in order to provide reliable information for service and maintenance.



Comfort belt

For comfortable wearing even for longer applications.



NiMH battery

Light NiMH battery ensures usage during a whole work shift.

Warning system

Visual and acoustical warning system when battery is low or the minimum air volume flow is not reached.

Status display

Optical display of battery status (A) and filtering capacity (P).

DIN round thread connector

Large selection of filters for various surroundings.

Product features:

- Easy cleaning
- Automatic readjustment
- ATEX version available
- Integrated memory function

Technical data:

- Certified according to EN 12941 & EN 12942
- Air flow 120 l/min – 160 l/min
- Weight 1,4 kg
- Battery life: 6-9 hours

e-breathe Smartblower

PAPR

Maximum flexibility

The small and light Smartblower provides an air volume of up to 160 l/min. The device is designed for both, pressure- as well as vacuum-applications.

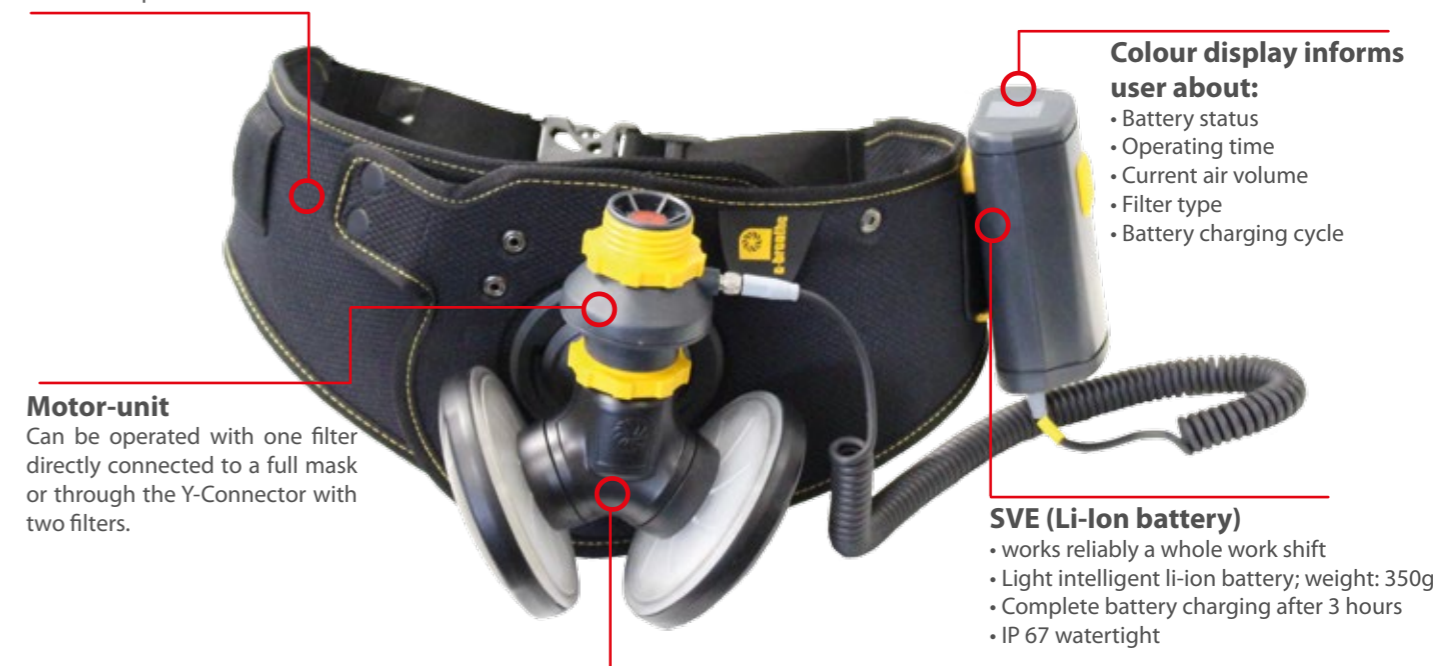
The blower is controlled through a light battery control unit (SVE) weighting just 350g, which executes an automatic system test after every start of the device.

All usage data are recorded on the integrated memory function of the SVE to provide reliable data for the service.

Every important function is accessible through easy menu navigation. The system gives the user optical as well as acoustic warnings and achieves, in closed condition, the protection class IP 67 (protection against temporary immersion).

Comfort belt

For carefree work. Combined with accessory it can be worn as back strap.



Motor-unit

Can be operated with one filter directly connected to a full mask or through the Y-Connector with two filters.

Y-Connector

The system combines two filters with the blower of the Smartblower. Hereby, the air performance and the consumption is distributed to two filters.

Colour display informs user about:

- Battery status
- Operating time
- Current air volume
- Filter type
- Battery charging cycle

SVE (Li-Ion battery)

- works reliably a whole work shift
- Light intelligent li-ion battery; weight: 350g
- Complete battery charging after 3 hours
- IP 67 watertight

Product features:

- Cost reduction through one-filter applications
- Solid construction
- Easy handling
- Fast charging function

Technical data:

- Certified according to EN 12941 & EN 12942
- Air flow 140 l/min – 180 l/min
- Weight: 480g
- Battery life: 6-10 hours

PM Chemical Outside PAPR Protection Suit

No limits and full control

The new "PM Chemical Outside" is a one-piece blower-respiratory protection suit. The suit is available in different materials and colors.

The certified respiratory protection blower PM Proflow2 SC / e-breathe e-Flow is worn outside of the suit. This option is necessary for a fast change of blowers (disaster control) and is suitable for other blowers as well. The suit can be dressed and undressed easy and fast.

During epidemics, when the suit is in use for more than 4 hours, the system can be changed without taking off the suit.

The suit is operated with a constant air flow of 160 l/min. Thus, the user is provided reliably with sufficient breathable air all the time. The exhaled air is led out of the suit through four discharge valves.

The suit has integrated boots. The gloves can be connected liquid-tight through an adapter or they can be fixed with chemical-resistant tape.

Certificates:

- EN 14605:2009: Type 3B & 4B
- EN 13982:2009: Type 5
- EN 12941:1998 + A2:2008: TH3
- EN 1073-2: Protection against radioactive particles
- EN 14126: Protection against infectious agents
- EN 1149-1 antistatic properties

Product features:

- Emergency exit
- Large field of vision
- External blower
- Quick dressing and undressing
- Available in five sizes
- Compatible with:
PM Proflow2 SC 160 & e-breathe e-Flow

e-breathe Glove adapter System Accessory

The glove adapter enables a liquid-tight connection of elastomeric gloves with all protection suits of class III type 3, 4, 5 or 6.



PM Chemical Inside PAPR Protection Suit

Protection for humans and systems

The new "PM Chemical Inside" is a one-piece blower protection suit. The suit is available in different materials and colours.

The certified respiratory protection blower PM Proflow2 SC / e-breathe e-Flow is worn inside of the suit (only the filters are outside) and therefore stays free from contamination.

The related respiratory protection blower provides a constant fresh air flow of 160 litres per minute through the air hosepipe into the air channel of the integrated hood. Therefore, the user is provided with sufficient breathable air. The exhaled air is led out of the suit through four discharge valves.

The suit has integrated boots. The gloves can be connected liquid-tight through an adapter or they can be fixed with chemical-resistant tape.

Certificates:

- EN 14605:2009: Type 3B & 4B
- EN 13982:2009: Type 5
- EN 12941:1998 + A2:2008: TH3
- EN 1073-2: Protection against radioactive particles
- EN 14126: Protection against infectious agents
- EN 1149-1 antistatic properties

Product features:

- Inboard blower
- Integrated boots
- Double-covered zipper
- Effective mobility through optimal cut
- Compatible with:
PM Proflow2 SC 160 & e-breathe e-Flow

PM GSA Adapter Accessory

The PM GSA adapter safely protects the user against moisture from the outside and is therefore an indispensable part of the certification as protection suit of type 3B.

e-breathe Multimask Face Shield

A new generation of face protection

A new generation of face protection is introduced with the Multimask. Engineers were able to successfully integrate suggestions for improvement from numerous direct users into a whole new concept of respiratory protection. As a result, the Multimask's innovative design includes a lot more than the user can see at first glance:

Design

The top of the frame is constructed in a way that it is combinable with every standard safety helmet. The shape of the frame prevents an unintentional dropping on the visor and provides enough space to mark the Multimask.

Face seal

Ensures the highest wearing comfort and is highly skin-tolerable and easy to clean.

Exhalation valve

Transports the exhaled air out of the mask and prevents a steamed up visor.

Eccentric closure

Through a rotary motion, headgear and visor can be exchanged without tools.

Hose connection

Especially easy due to the new click adaptor.

Air control

The air channels inside the mask's frame enable the user to adjust the air control to his needs by rotating the click adaptor into three different positions.

Product features:

- Light, comfortable, maintenance-free
- Washable face seal
- Combinable with standardized safety helmets
- Eccentric screws for easy exchange of visor

Certificates:

- Certified according to EN 12941
- Eye protection according to EN 166 B
- Protection class TH3
- Compatible with: PM Proflow2 SC 160; Smartblower Two-Filter System; e-breathe e-Flow



PM Full Mask Panarea Blower assisted Full Mask

Motor-integrated filter

The new PM Full Mask Panarea silicone offers highest wearing comfort. Due to the soft and skin-tolerable silicone rubber, the mask combines comfortable wear qualities with a long durability.

The arched panorama-viewing window offers an unlimited field of vision without restrictions. A scratchproof anti-fog screen is installed on standard.

To extend the application time of the full mask, it was certified with the respiratory protection e-breathe Smartblower. The blower serves as a breathing support. Thanks to its very small size and its light weight, neither the view nor the weight of the mask is influenced. This results in work facilitation for the user.

Important: The application with the Smartblower does not mean any loss of work safety because the protection is guaranteed also in switched-off conditions.

Exhalation valve

Transports the exhaled air out of the mask and prevents heat accumulation inside the mask.

Motor unit

Serves as breathing support and thus guarantees higher wearing comfort and longer application times.

Five-points-strapping

Comfortable strapping ensures easy and fast application and a high wearing comfort.

Mask body

Comfortable Full Mask out of silicone for a pleasant wearing.

Field of vision

Standardly installed anti-fog screen ensures an unlimited panoramic view.

Product features:

- Breathing support with 140-160 l/min
- No increased breathing resistance
- Comfortable Mask made of silicone
- Large field of vision and no fogging
- Extension of application time

Certificates:

- Certified according to EN 136 & 12942
- Full Mask Class 3
- Protection Class TM2
- Compatible with: e-breathe Smartblower Full Face Mask System

PM Lab Hood AV Overpressure Hood

Lightness and full transparency

The complete hood consists of a particle-tight, light, solid, lint-free material with integrated eye protection and shoulder covering.

The especially for risks in the pharmaceutical industry and disaster medicine developed hood achieves, together with a blower, the highest protection class.

The blower builds up a constant overpressure inside the hood so that it is working self-supporting and without any headgear. The headband can be adjusted universally for every head size.

The airflow is passing inside of the hood along the PVC-visor so that it is not blown into the face of the user.



Product characteristics:

- All-round field of vision
- Headband size S-XXL
- No G26 medical check-up
- No limits on application time
- Suitable for beards and spectacle wearers

Certified:

- Certified according to EN 12941
- Protection class TH3
- Compatible with:
PM Proflow2 SC 120; PM Proflow EX 120; Smartblower One Filter System & e-breathe e-Flow



PM Chemical Hood Overpressure Hood

Comfort follows safety

The complete hood is manufactured from antistatic chemical-resistant material. Eye protection and shoulder covering are integrated.

The hood was developed for working environments with higher risks. Due to its materials, the hood protects against solid as well as liquid hazardous substances and toxics.

The blower ensures a constant overpressure inside the hood and thus achieves the highest protection class.

The airflow is passing inside of the hood along the PC-visor so that it is not blown into the face of the user.



Product features:

- All-round view
- Maximum of safety and comfort
- No G26 medical check-up
- No limits on application time
- Suitable for beards and spectacle wearers

Certified:

- Certified according to EN 12941
- Protection class TH3
- Compatible with:
PM Proflow2 SC 120; PM Proflow EX 120; Smartblower One Filter System & e-breathe e-Flow



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e-breathe
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www.e-breathesafety.com