

RESPIRATORY PROTECTION

2019



Table of contents

Respiratory protective equipment periodical control & maintenance	3
---	---

► **Air purifying respiratory protection**

Dual-filter half-mask X-plore 3300	6
Dual-filter half-mask X-plore 3500	7
Dual-cartridge respirator mask X-plore 5500	8
Bayonet filters for dual-filter facepieces X-plore	9
RD DIN40 half-mask respirator X-plore 4700	10
Full face RD DIN 40 respirator mask X-plore 6300	11
RD DIN 40 versatile filters X-plore	12
CO/NO filtration RD DIN 40 X-plore	13
RD DIN 40 half-mask respirator Aviva 40	14
RD DIN 40 respiratory protective mask Sari	15
RD DIN 40 filter cartridges for respiratory protective equipment Pro 2000	16
Powered air purifying respirator Phantom Vision	18
Powered air purifying respirator Duraflow	20
Powered air purifying respirator X-plore 8000	24

► **Atmosphere supplying respiratory protection**

Complete self-contained breathing apparatus with carrying case R-PAS	30
High performance self-contained breathing apparatus PSS 3000	31
Heavy duty self-contained breathing apparatus PSS 4000	32
Compressed air cylinder for self-contained breathing apparatus	33
Constant flow supplied air respirator system – Airline respirator X-plore 9300	34
On-demand airline respirator mask PAS X-plore	37
Short duration self-contained breathing apparatus PAS Micro	38
Short-term self-contained breathing apparatus PAS Colt	39
Breathing air trolley for airline systems AirPack 1	40
Breathing air trolley for airline systems AirPack 2	41
PAS filter unit	42
Breathable air quality controller VAR 18	43

► **Emergency evacuation solutions**

Evacuation air purifying unit (<i>escape half-mask</i>) PARAT 3100	46
Air purifying escape unit (<i>escape half-mask</i>) PARAT 3200	47
Air purifying escape unit (<i>escape hood</i>) PARAT 4700	48
Air purifying escape unit (<i>fire escape hood</i>) PARAT 5500	49
Compressed oxygen self-rescuer mask M20-2	50
Oxygen self-rescuer with mouthpiece Oxy 3000 / 6000	51
High autonomy self-rescuer mask EBA 6.5	52
Compressed air emergency escape breathing apparatus Saver CF	53
Personal alert safety system (PASS) Bodyguard 1000	54

Respiratory Protective Equipment periodical control & maintenance

Next generation laboratory

Respiratory protective devices such as full face masks, powered air purifying respirators, self-contained breathing apparatus, safety SCBA and self-rescuer masks are **class 3 PPE** (*disabling or lethal risks*) that require annual periodical checking and control.



▶ PPE control and maintenance

Backed with our **latest generation laboratory** and a strong team of skilled technicians certified for controlling and checking respiratory protective equipment, we offer a whole range of services for any particular need.

- Punctual control of your respiratory equipment
- Maintenance contract for your PPE
- Innovative traceability

▶ The All Included Maintenance concept

Our **All Included Maintenance Solution** is a simple and cost-effective concept that forecasts the control and periodical checkings for your respiratory protective equipment from its purchase date. This is the **“all inclusive”** version of respiratory protection and EVERYTHING is included, even the transport for returning devices.

Our **All Included Maintenance Solution** is defined as follows:

- Annual periodical checkings during the selected time (2, 3 or 4 years)
- No labor cost for out-of-warranty repair (*deterioration for example*)
- Shipping costs are included for returning devices.

Your **respiratory protection** budget is fixed for the selected period and there is no surprise!



▶ My GazDetect – easy fleet management

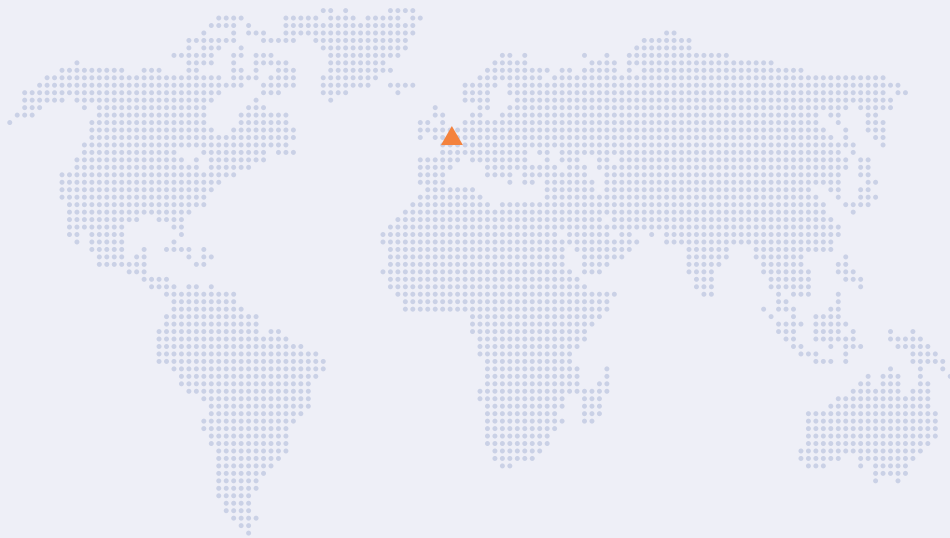
Regardless of the PPE type (*gas detector or respiratory protective equipment*), every device we provide is registered on our MyGazDetect platform with calibration certificate for gas detectors or conformity sheet for respiratory protective equipment. Once the device is registered on our platform, it can be managed by any approved person via a secured network and the **MyGazDetect** application.

After logging in through a password, you will access your personal dashboard where you will be able to:

- Configure your personal space by adding or removing email addresses for return notification and alerts.
- Manage your device fleet: affect, sort, classify and instantly check control status & delays
- Preview or print your control certificates

This application is totally free and easy to use. It can be reached on any device: computer, tablet or smartphone.





▶ Visit our websites: www.gazdetect.com
Online store: www.safetygas.com

Air purifying respiratory protection



Visit our websites: www.gazdetect.com
Online store: www.safetygas.com

▶ X-plore® 3300

Dual filter respiratory protective half-mask

**Dual filter
EN143 - EN14387**



X-plore series filter cartridges

X-plore® filters compose an innovative respiratory protection range combining modern design and user comfort. The swept back position of the filters ensure unrestricted panoramic field of view.



Filters feature a secured twist-lock connector that can be easily mounted. The swept back position of bayonet filters on the side ensures users a large unrestricted vision.

Every filter is CE marked in compliance with the EN 14387 and/or EN 143:2000 standards and is packed with a second unit in order to only open the right number of required filters.

	Filter type	Reference
Particle filter	P3	67 38 354
	P3 odor barrier	67 38 391
Gas filter	A2	67 38 873
	A2B2	67 38 775
	A1B1E1K1	67 38 816
Combined filter	A2-P3	67 38 875
	A2B2-P3	67 38 876
	A1B1E1K1Hg-P3	67 38 817

Product description

▶ Cost effective and comfortable protection

The X-plore® 3300 half-mask is a low maintenance half-mask. The ideal choice for anyone looking for inexpensive, efficient and comfortable respiratory protection.

▶ Easily adjustable head harness

The innovative cross over straps are very easy to don and ensure ideal weight distribution offering optimal comfort without pressure.

▶ Flexible nose area for secure fit

The special design of the nose sealing strip ensures leak free sealing and an optimal fit with safety glasses. The three sizes (S, M, L) ensure a perfect fit to any face morphology.

▶ Low profile compact design

The swept back position of the filters guarantees a wide field of view free from any obstruction and ensures optimal fit for use under protective visors. The modern design leads to a longer wearing tolerance by the user.

▶ Versatile use

The X-plore® 3300 half-mask is equipped with two lateral bayonet connections dedicated to the use of the large X-plore® bayonet filter series.

▶ X-plore® 3300 specifications

- Body and mask made of soft and silicon-free (required for paint application) hypoallergenic thermoplastic elastomer (TPE)
- Cross over straps with one setup point and lateral pull for tightening
- FlexiFit head harness made of self-adjusting soft elastomer, flexible nose area for use with protective glasses
- Compact shape ideal for use with protection lens or welding visor
- Approx. 96 grams reduced weight depending on the size
- Compliance with the EN 140 standard
- Individually packed (filters not provided)

Description	Reference
X-plore 3300 dual filter half-mask size S	R55331
X-plore 3300 dual filter half-mask size M	R55330
X-plore 3300 dual filter half-mask size L	R55332

► X-plore® 3500

Dual-filter half-mask for long-term use

**Dual filter
EN143 - EN14387**



X-plore series filter cartridges

X-plore® bayonet filters are an innovative respiratory protection cartridges range that combines modern design and high user comfort. The off-center arrangement of the bayonet connections ensures a panoramic and clear field of vision.



The filters are equipped with a secure and quick-release bayonet catch, providing easy guidance until they click into place. The off-center arrangement of the bayonet connections enables a wide

and unobstructed field of view.

Every filter is CE marked in compliance with the EN 14387 and/or EN 143:2000 standards and are packed by two in order to only open the proper number of filters.

Cartridge type		Reference
Particle filters	P3	67 38 354
	P3 anti-odor	67 38 391
Gas filters	A2	67 38 873
	A2B2	67 38 775
	A1B1E1K1	67 38 816
Combined filters	A2-P3	67 38 875
	A2B2-P3	67 38 876
	A1B1E1K1Hg-P3	67 38 817

Product description

► Innovative DrägerFlex material

The DrägerFlex material combines hypoallergenic properties with excellent resistance and protection against chemical agents. Silicon-free, it is particularly well-suited for paint applications.

► Flexible nose area for secure fit

The special design ensures a tight fit without added pressure on the nose bridge, in addition to wearing characteristics that prevent interference with eye protection. The three available sizes (S, M, L) ensure a very good fit for any face morphology.

► Easily adjustable head harness

The innovative X (cross locking) guides of the harness are easy to adjust and ensure an even weight and pressure distribution, ensuring ideal user comfort.

► Drop-down system

The mask can be removed from the face without removing head protection, by simply unclasp the neck fastener. In the drop-down position, the face-seal portion of the mask remains against the body and is protected against contamination.

► Low-profile design

The lateral location of the filters and the design of the mask provide an exceptional field of vision and excellent characteristics for use under protective visors. Furthermore, the comfortable design offers to a longer tolerance by the user.

► X-plore® 3500 specifications

- Body made of DrägerFlex: new hypoallergenic and very comfortable material. Silicon-free and high resistance for paint applications.
- X shape with quick release harness to remove the mask without removing head protection
- Flexible nose area ideal for use with protective goggles
- Reduced weight (approx. 96 grams depending on size)
- 3 available sizes: S (small) / M (medium) / L (large)
- Compliant with the EN 140 standard
- Individually packed (no filter included)

Description	Reference
X-plore 3500 dual-filter half-mask size S	R55351
X-plore 3500 dual-filter half-mask size M	R55350
X-plore 3500 dual-filter half-mask size L	R55352

▶ X-plore® 5500

Dual-cartridge respirator mask

**Dual-cartridge
EN143 - EN14387**



Technical specifications



The **X-plore®** bayonet filters from **Dräger** are easy to install, minimize field of view restrictions and provide a reliable protection against harmful gases vapors and particles.

Filters feature a secured twist-lock connector which can be easily mounted. The swept back position of the bayonet filters on the side ensures users a large unrestricted vision.

Every filter is CE marked in compliance with the EN 14387 and/or EN 143:2000 standards and is packed with a second unit in order to only open the right number of required filters.

Filter type		Reference
Particulate filter	P3	67 38 354
	P3 pure odor	67 38 391
Gas filter	A2	67 38 873
	A2B2	67 38 775
	A1B1E1K1	37 38 816
Combined filter	A2-P3	67 38 875
	A2B2-P3	37 38 876
	A1B1E1K1Hg-P3	67 38 817
	A2B2E2K2Hg-P3	67 38 819

Product description

▶ **Large field of view due to the PC or Triplex 180° lens**
 The distortion-free lens with 180° wide angle guarantees a large field of view with excellent peripheral vision. Two options are available for the lens: impact-proof polycarbonate material (*with plastic frame*) or scratch-proof and chemical-resistant Triplex glass (*an extra stable stainless steel frame*).

▶ **Large field of vision**
 The lateral location of the filters does not impede the field of vision of the user.

▶ **Safe and comfortable fit**
 A double sealing frame with threefold sealing edges offers safe protection and secure fit for almost all face morphologies. The mask body from durable EPDM elastomeric membrane ensures a great level of wearing comfort even during prolonged use.

▶ **5-point harness**
 The comfortable 5-point harness ensures that the mask is easy and quick to don. Additionally, the wide strap design prevents the development of pressure points on the head.

- ▶ **X-plore® 5500 description**
- Visor made of "F" highly thermal resistant polycarbonate or Triplex (*optional*) for easy cleaning particularly efficient for painting applications
 - Mask body made of soft and comfortable thermoplastic elastomer (*TPE*) without silicon (*required for paint applications*)
 - Internal half-mask channeling expired air for easy release
 - Phonic membrane made of ABS for optimized acoustic diffusion
 - Dräger bayonet connectors for secured filter mounting
 - Weight: approx. 550 grams (*unique size*)
 - EN 136 C12 compliant

Description	Reference
EPDM full face mask with polycarbonate lens	R55270
EPDM full face mask with Triplex lens	R56655

▶ X-plore®

Bayonet filters for dual filter facepieces

**Twin-Cartridge
 EN143 - EN14387**



Field of application

The **Dräger X-plore®** dual filter range sets the new standard for comfort of use. Thanks to modern materials and attractive design, the comfort and user acceptance are optimized.

- Compatible with the Dräger X-plore® series 3300, 3500 and 5500 full face masks and half-masks
- The bayonet connector enables easy and safe setting
- Both filters are introduced from above and guided downwards to the stop.

Product description

▶ Innovation and comfort

The **Dräger X-plore®** bayonet filters series is an innovative range for dual-filters systems, combining modern design to optimal comfort. Thanks to the lateral position of bayonet connectors, the user enjoys a large and unobstructed field of view.

▶ Easy and safe to install

Easy and safe mounting. Filters are equipped with secured bayonet connectors with intuitive mounting thanks to a stop point.

▶ Durable housing made of plastics

Every gas and combined filter is enclosed into a robust plastic housing and are packed by two in order to only open the proper number of filters.

▶ Dynamic combinations

Gas filters can be associated to many different **X-plore®** Pad or Pure particulates filters with an adaptor in order to form combined filters. Added particle filters can then be individually replaced. The particulates pre-filter function is to avoid the premature filter clogging with big particles or paint spray.



The X-plore series filtering cartridges

Filter type	Filter type	Main applications	Reference
Particle filters	P3	Solid and liquid particulates, radioactive and highly toxic particles	67 38 354
	P3 pure odor	Solid and liquid particulates, radioactive and highly toxic particles	67 38 391
Gas filter	A2	Organic gas and vapors such as solvents with boiling point above 65°C	67 38 873
	A2B2	Organic and inorganic gas and vapors	67 38 775
	A1B1E1K1	Organic and inorganic gas and vapors, acid gas, vapors and ammonia	37 38 816
Combined filters	A2-P3	Organic gas and vapors such as solvents with boiling point above 65°C, solid and liquid particulates, radioactive and highly toxic particles, bacteria and virus	67 38 875
	A2B2-P3	Organic and inorganic gas and vapors, liquid and solid particulates, radioactive and highly toxic particles, bacteria and virus	37 38 876
	A1B1E1K1Hg-P3	Organic, inorganic and acid gas and vapors, ammonia and organic derivatives, mercury vapors and compounds, solid and liquid particulates, radioactive and toxic particles, microorganisms like bacteria and virus	67 38 817
	A2B2E2K2Hg-P3 *	Organic, inorganic and acid gas and vapors, ammonia and organic derivatives, mercury vapors and compounds, solid and liquid particulates, radioactive and toxic particles, microorganisms like bacteria and virus	67 38 819

* X-plore 5500 full face mask only.

▶ X-plore® 4700

RD DIN40 half-mask respirator



The X-plore® RD DIN40 filtering cartridges range



The X-plore® RD DIN40 range offers different filter types for every common application. It provides protection against many toxic substances, from organic vapors up

to radioactive iodine.

In compliance with the EN 14387 and/ or EN 143/2000 standards, each filter is CE marked. Filters are individually packed in order to ensure optimal protection of unused filters.

Filter type		Reference
Particulates filters	P3	67 38 932
Gas filter	A2	67 38 855
	AX	67 38 863
	K2	67 38 856
	A2B2	67 38 779
	A2B2E2K1	67 38 802
Combined filters	A2-P3	67 38 860

Product description

The X-plore® 4700 is a robust single-filter half mask respirator that meets the most demanding comfort and airtightness requirements for a comfortable and convenient fit.

▶ Comfortable use

The combination of an extremely soft mask body with a designated and shaped nose area ensures a precise fit, good sealing properties and almost pressure-free use.

▶ Easy adjustment of head harness

The innovative X shape (*crosswise*) of the head harness enables easy adjustment and ensures a perfect weight and pressure balance to improve user comfort.

▶ Drop-Down System

By simply opening the neck closure of the harness system, the mask can be easily doffed without taking off the helmet or protective visor of the user. In its standby position, the inner mask remains close to the body, protected against contamination and ready to use.

▶ Versatile use

The X-plore® 4700 mask is equipped with a Rd40 thread according to the EN 148-1 standard and can be combined with the large X-plore® Rd40 filter series.

▶ Two high-quality materials options

- TPE (*well suited for paint application*) for normal skins
- Silicon for sensitive skins. The silicon version is available in two sizes.

▶ X-plore® 4700 description

Body and mask made of TPE (*for paint application*) or silicon for sensitive skins.

- X shaped head harness with fast neck opening to release the mask without removing other protective equipment
- Shaped nose area enables the use of protective goggles
- RD DIN 40 thread to secure filter connection
- Reduced weight – approx. 96 grams depending on the size
- Individually packed (*no filter included*)

Description	Reference
X-plore® 4700 half-mask size M/L TPE	R55876
X-plore® 4700 half-mask size M/L Silicon	R55874
X-plore® 4700 half-mask size S/M Silicon	R55875

▶ X-plore® 6300

Full Face RD DIN40 respirator mask

Single cartridges
 EN143 - EN14387



RD DIN40 X-plore® filter cartridges series



The RD DIN40 X-plore® filter cartridges series proposes different filter types for any common application. They offer high protection against many toxic substances, from organic vapors up to radioactive iodine.

Every filter is CE marked in compliance with the EN 14387 and/or EN 143:2000 standards and are individually packed to ensure maximum protection of unused filters.

Cartridge type		Reference
Particle filters	P3	67 38 932
Gas filters	A2	67 38 855
	AX	67 38 863
	K2	67 38 856
	A2B2	67 38 779
	AXB2	67 38 782
	A2B2E2K2	67 38 804
Combined filters	A2-P3	67 38 860
	AX-P3	67 38 862
	A2B2-P3	67 38 783
	A2B2E2K2Hg-P3	67 38 797
	A2B2E2K2HgNOCO20-P3	67 38 814
	REACTOR-P3	67 38 871

Product description

▶ Secure and comfortable fit

The body of the mask is made with durable and skin-friendly EPDM, with double-layer face seal and triple sealing edges that provide a secure and comfortable fit for virtually any face morphology.

▶ Wide field of view

The distortion-free PMMA lens made with Perspex offers a 180° wide angle that ensures a large field of view with excellent panoramic vision.

▶ 5-point harness

The comfortable 5-point harness does not only ensure simple and quick fitting, but due to the wide straps, it also prevents pressure points on the head.

▶ Efficient ventilation system

The efficient ventilation system with a separate inner mask prevents the lens from fogging and ensures good vision.

▶ Versatile operation

The X-plore® 6300 full face mask features an RD40 thread compliant with the EN 1148-1 standard and can be equipped with the complete X-plore® RD40 filter range.

▶ Easy maintenance and logistics

One size fits all, simplifying logistics and stock management. The barcode on the inside simplifies the recording and maintenance of the masks inventory.

▶ X-plore® 6300 specifications

- Compact design for reduced obstruction
- Enlarged field of view thanks to the distortion-free lens and user fitting
- Hypoallergenic mask body made of high-resistance EPDM
- Scratch resistant PMMA lens (*plexiglass*) with 180° field of view
- Internal half-mask channeling expired air for easy release
- Phonic membrane made of ABS for optimized acoustic diffusion
- Standard RD40x1/7" thread according to EN 148-1
- Weight: approx. 500 grams
- EN 136 class 2 (*CE mark*), NIOSH, AS/NZS tested and approved
- Individually packed (*no filter included*)
- Instructions manual with use, maintenance and storage instructions
- Excellent quality / price / performance ratio

Description	Reference
X-plore 6300 panoramic mask (<i>standard size</i>)	R55800

▶ X-plore® RD DIN40

Versatile RD DIN40 filters (40 mm thread)

Single cartridges
 EN143 - EN14387



Product description

▶ Large range of filters

The X-plore® RD DIN40 range offers different filter types for every common application. It provides protection against many toxic substances, from organic vapors up to radioactive iodine.

▶ Aluminium housing

The housing of these filters is made of aluminum in order to easily detect any eventual damage on the cartridge, for enhanced safety.

▶ Individual resealable packaging

The filtering cartridges are individually packed in order to ensure optimal protection of unused filters.

▶ CE marking

In compliance with the EN 14387 and/ or EN 143/2000 standards, every filter is CE marked.

The X-plore® RD DIN40 filter cartridges range

Filter type	Main applications	Reference	
Particle filters P3	Solid and liquid particulates, radioactive and highly toxic particles	67 38 932	
Gas filter	A2	Organic gas and vapors such as solvents with boiling point above 65°C	67 38 779
	AX	Organic compounds gas and vapors with boiling point below or equal to 65°C	67 38 863
	K2	Ammonia and ammonia organic derivatives	67 38 856
	A2B2	Organic and inorganic gas and vapors	67 38 775
	AXB2	Organic compounds gas and vapors with boiling point below 65°C and inorganic substances such as chlorine, hydrogen sulfide, hydrogen cyanide	67 38 782
	A2B2E2K2	Organic and inorganic gas and vapors, acid gas and vapors and ammonia	67 38 804
Combined filters	A2-P3	Organic gas and vapors such as solvents with boiling point above 65°C, solid and liquid particulates, radioactive and highly toxic particles, bacteria and virus	67 38 860
	AX-P3	Organic compounds gas and vapors with boiling point below 65°C, solid and liquid particulates, radioactive and highly toxic particles, bacteria and virus	67 38 862
	A2B2-P3	Organic and inorganic gas and vapors, solid and liquid particulates, radioactive and highly toxic particles, bacteria and virus	67 38 783
	ABEK2Hg-P3	Organic, inorganic and acid gas and vapors, ammonia and organic derivatives, mercury vapors and mercury compounds, solid and liquid particulates, radioactive and highly toxic particles, microorganisms like bacteria and virus	67 38 797
	A2B2E2K2HgNOC020-P3	Organic, inorganic and acid gas and vapors, ammonia and organic derivatives, mercury vapors and mercury compounds, carbon and nitrogen monoxides, solid and liquid particulates, radioactive and highly toxic particles, microorganisms like bacteria and virus	67 38 814
	Reactor-P3	Radioactive iodine and organic compounds like methyl iodine, solid and liquid particulates, radioactive and highly toxic particles, bacteria and virus	67 38 871

► CO NO filtration

X-PLORE RD40 A1B2E2K1 Hg NO P3 RD / CO20 P3 RD cartridge



Field of application

► Operating principle

Gases and vapors are removed from ambient air by absorption (*active carbon*), water vapor is removed through impregnated active carbon (*desiccator*) and CO is transformed into CO₂ and heat with a CO catalyst (*Hopkalite*), particles are filtered by a microfiber filter.

► Mask connection

Rd40 standard thread (Rd 40mm x 1/7") according to the EN 148-1 standard

► Materials

Filter housing: aluminum with internal treatment
 Absorbing agent: active carbon, hopkalite
 Particle filter: glass microfiber, cellulose fibers, additives
 Lid: screw or rubber

► Weight

Approximately 435 grams

Type	Calibration gas	Class	Concentration	Breakthrough value	Duration
A	Cyclohexane (C6H12)	1	1.000 ppm	10 ppm	70 min
B	Chlorine (Cl ₂)	2	5.000 ppm	0,5 ppm	20 min
	Hydrogen sulfide (H ₂ S)	2	5.000 ppm	10 ppm	40 min
	Hydrogen cyanide (HCN)	2	5.000 ppm	10 ppm	25 min
	Sulfur dioxide (SO ₂)	2	5.000 ppm	5 ppm	20 min
E	Sulfur dioxide (SO ₂)	2	5.000 ppm	5 ppm	20 min
K	Ammonia (NH ₃)	1	1.000 ppm	25 ppm	50 min
Hg	Mercury vapors (Hg)	Only one class	13,1 mg/m ³	0,1 ppm	100 h Maximal authorized duration: 50 hours (EN)
CO	Carbon monoxide (CO)	20	2.500 ppm	200 ppm	Max. 20 min
NO	Nitric oxide (NO)	Only	2.500 ppm	5 ppm	20 min
	Nitrogen dioxide (NO ₂)	one class	2.500 ppm	5 ppm	20 min

Indication: 5.000 ppm = 0,5 Vol.-%

► X-plore 6300 full face mask

Connector

Solid plastic with inhalation and exhalation valve, standard Rd 40 x 1/7" thread compliant with the EN 148-1 standard

Mask body

High resistant and hypoallergenic EPDM

Visor

Anti-scratch PMMA (Plexiglas) with 180° field of view

Weight: Approx. 500 g

Tested and EN 136 class 2 (CE mark), NIOSH, AS/NZS approved



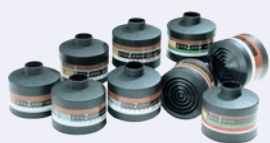
▶ Aviva 40

RD DIN 40 half-mask respirator

Single filter
EN148-1 DIN40mm



RD DIN 40 PRO 2000 filtering cartridge series



The **RD DIN 40 PRO 2000** filtering cartridge series offers different types of filters for any common application. It provides protection against many toxic substances from organic vapors

up to radioactive iodine.

Every filter is CE marked according to the EN 14387 and/or EN 143:2000 standards. They are individually packed to ensure optimal protection of unused cartridges.

Filter types		Reference
Particulate filters	P3	50 52 670
Gas filters	A2	50 42 870
	AX	50 42 970
	B2	50 42 871
	E2	55 42 972
	A2B2	55 42 874
	Combined filters	A2-P3
	B2-P3	50 42 671
	A2B2-P3	55 42 674
	A2B2E1-P3	50 42 678

Specifications

The new **AVIVA 40** single filter half-mask is the next step forward in half-mask technology from Scott Safety.

Elements with innovative design such as a hybrid reflex face seal, an easy-to-use leaks checking mechanism and goggle 'pinch' have been integrated into the **AVIVA 40** half-mask, with user comfort and optimal protection in mind. A large range of filter options enables operators to use this half-mask in many applications.

▶ Hybrid reflex dual seal

The unique dual face seal of the **AVIVA 40** flexes around the chin to follow the user's movements. Thanks to this flexibility, the **AVIVA 40** features increased comfort and fit, enables safe adjustment and easy cleaning.

▶ Perfect adjustment

Scientifically designed to fit a very high percentage of the global population in relation to different face shapes and sizes.

▶ Improved voice transmission

An integrated voice panel especially designed to improve voice intelligibility enables users to be clearly heard by others.

▶ Aviva 40 half-mask description

- Thermoplastic elastomer overmolded on polypropylene (*ideal for paint works*)
- Goggle pinch allows better integration with eyewear
- Weight: approx. 130 grams depending on size
- Compliant with the EN 140 standard
- Compliant with the EN 140:1998 and AS/NZS 1716:2012 standards
- Individually packed (*provided without filter*)

Description	Reference
Aviva 40 half-mask size S (<i>Small</i>)	80 05 000
Aviva 40 half-mask size M (<i>Medium</i>)	80 05 001
Aviva 40 half-mask size L (<i>Large</i>)	80 05 002

▶ Sari

RD DIN 40 respiratory protective mask

Single filter
EN148-1 DIN40mm



RD DIN 40 PRO 2000 filter cartridge series



The **RD DIN 40 PRO 2000** filter cartridge series offers different types of filters for any common application. It provides protection against many toxic substances from organic vapors up to radioactive iodine.

Each filter is CE marked in compliance with the EN 14387 and/or EN 143:2000 standards. They are individually packed to ensure optimal protection of unused filters.

Filter type		Reference	
Particle filter	P3	50 52 670	
Gas filter	A2	50 42 870	
	AX	50 42 970	
	B2	50 42 871	
	E2	55 42 972	
	K2	50 42 873	
	A2B2	55 42 874	
	AXB2	50 42 771	
	A2B2E2K2	50 42 979	
	Combined filters	A2-P3	50 42 670
		AX-P3	50 42 770
A2B2-P3		55 42 674	
A1E1Hg-P3		50 42 778	
A2B2E2K2-P3		50 42 799	
A2B2E2K2Hg-P3		55 42 798	
REACTOR-Hg-P3	55 42 777		

Product description

The **Sari** panoramic mask is renowned for its high standards of safety, reliability and comfort of use. Sari has established itself as a household name in modern, technically advanced respiratory protection.

▶ Prime focus on user comfort

- Wide sealing edge for comfort and excellent fit
- Comfortable to wear even for long periods without the user becoming tired or stressed
- Secure fit on the face due to the anatomic chin cup

▶ Reliable service

- Carbon dioxide rate reduced thanks to a special internal mask featuring non-return valves
- Misting formation is prevented by directing the inhalation air flow across the inside of the panoramic visor
- Safeguarded speech diaphragm allows communication
- Fully adjustable five point elastic head harness is equipped with quick release buckles, easy to don and doff
- Inhalation and exhalation valves are easy to check and to replace without any tool

▶ Wide field of applications

- This mask can be used with a powered air purifying respirator, with filters, and as a facepiece with an air supplying respirator.

Sari mask description

- Compact design for low clutter
- Body made of natural rubber (*ideal for paint works*)
- Mask body made of highly resistant and hypoallergenic EPDM
- Visor made of Plexiglas with large field of vision
- Internal half mask steering expired air for easy external rejection
- Speech diaphragm made of ABS for improved acoustic diffusion
- Rd 40x1/7" standard thread EN 148-1 compliant
- Weight: 560 grams
- EN 136 class 2 (*CE marking*) tested and approved
- Excellent quality / price / performances ratio

Description	Reference
Sari natural rubber full face mask	55 11 680
Full face mask with Triplex visor	55 11 987
Peelable film for Sari mask visor	55 12 190
Pack of Distel disinfectant wipes	20 04 225

▶ PRO2000

Filter cartridges for respiratory protective equipment

Single filter
 EN148-1 DIN40mm



Product description

The **PRO2000** filter cartridges combine SCOTT Safety advanced technology and exclusive know-how in terms of air purifying respirators. The available series covers a very large range of applications. These filtering respirator cartridges are all compliant with the EN standard and marked with the CE0121 label.

The **PRO2000** filters are certified to the latest EN standards, marked "R" for reusable, CE and connect through an EN148-1 40 mm thread (compatible with EN1336 compliant panoramic masks and EN140 certified half-masks).

▶ PRO2000 filter cartridges

- Particulates filters trap a large range of particular impurities such as solid and liquid particles, fumes, welding vapors, aerosols, mists and micro-organisms (*bacteria and virus*) as well as radioactive particles.
- Gas filters protect against many harmful gases and vapors.
- Combined filters protect against both gases/vapors and particles.

Technical specifications

▶ Particle filters

- High capacity filter element removing up to the finest particles and purifying air up to 99.999% (at 95L/min).
- Highly hydrophobic filter element.
- Pleated parallel air purifying surface with large surface reducing the risk of clogging in heavy dusty environments.

▶ Gas filters

- The microporous structure of carbon is composed by tiny capillaries with large absorption areas.
- Thanks to high quality materials, the absorbent element's retention capacity remains high for a long time
- Less carbon provides low weight and less breathing resistance – real benefits for the user.
- With a safe margin to EN requirements, **Pro2000** gas filters perform effectively using only 220–320 ml of carbon.

▶ Combined filters

Combined filters remove hazardous gases and vapors as well as particles. Air goes first through a particle filter, then a gas filter. The filter removes aerosol based particles such as paint droplets. When spraying liquid substances a combined filter should be used.

▶ Selecting a filter cartridge

- Will the atmosphere contain sufficient oxygen (approx. 18-23% vol.) throughout the period of exposure?
- Which hazardous substances are likely to be present?
- What are their physical and chemical properties?
- Which forms do the airborne contaminants take? Particles, gases or both?
- What are the concentrations in the atmosphere?
- What are the relevant occupational exposure limit values (OEL) or the safe exposure levels?
- What effects can these substances have on health?

Cartridge type		Filter type	Main use	Weight	Codification
Particle filters	PF10	PF10	Solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	74 gr	052670
	PFR10 (reduced entry)	P3	Solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	75 gr	052680
Gas filters	GF22	A2	Organic gases and vapors such as solvents with a boiling point greater than 65 °C	190 gr	042870
	GF22	B2	Inorganic gases and vapors such as chlorine, hydrogen sulfide, hydrogen cyanide	195 gr	042871
	GF32	E2	Acid gases and vapors such as sulfur dioxide	305 gr	042872
	GF22	A2B2	Organic and inorganic gases and vapors	195 gr	042874
	GF32	A2B2E2K2	Organic and inorganic gases and vapors, acid gases and vapors and ammonia	320 gr	042979
	GF32	AX	Organic compounds gases and vapors with a boiling point lower than or equal to 65 °C	268 gr	042970
Combined filters	CF22	A2-P3	Organic gases and vapors such as solvents with a boiling point greater than 65 °C, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	230 gr	042670
	CF32	A2-P3	Organic gases and vapors such as solvents with a boiling point greater than 65 °C, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	340 gr	043070
	CF22	B2-P3	Inorganic gases and vapors such as chlorine, hydrogen sulfide, hydrogen cyanide, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	265 gr	042671
	CF32	E2-P3	Acid gases and vapors such as sulfur dioxide, solid and liquid particles, radioactive and highly toxic particles, bacteria, and virus	265 gr	042672
	CF22	K2-P3	Ammonia and ammonia organic derivatives, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	370 gr	042673
	CF22	A2B2-P3	Organic and inorganic gases and vapors, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	265 gr	042674
	CF22	A2B2E1-P3	Organic, inorganic and acid gases and vapors, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	270 gr	042678
	CF32	A2B2E2K2-P3	Organic and inorganic gases and vapors, acid gases and vapors, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	370 gr	042799
	CF32	AX-P3	Organic compounds gases and vapors with a boiling point lower than or equal to 65 °C, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	310 gr	042770
	CF32	Reactor-Hg-P3	Mercury and compounds, radioactive iodine and organic compounds such as methyl iodide, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	307 gr	042777
	CF22	A1E1Hg-P3	Organic and acid gases and vapors, mercury and compounds, ozone, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	268 gr	042778
	CF32	A2B2E2K2-Hg-P3	Organic, inorganic and acid gases and vapors, ammonia and ammonia organic derivatives, mercury vapor and mercury compounds, solid and liquid particles, radioactive and highly toxic particles, micro-organisms such as bacteria and virus	370 gr	042798

▶ Phantom Vision

Next generation powered air purifying respirator



Product description

After extensive research on asbestos and the nuclear industry, the **Phantom Vision** has been specifically designed to exceed the most demanding requirements of these sectors as well as any other industry requiring operators to wear a full face mask.

▶ Proven advanced technology

- New high performance brushless motor for a reliable full-shift operation and a long service life
- A battery pack using lithium-ion cells to eliminate re-charge memory issues
- Through life maintenance costs are minimized by a waterproof design, protected power contacts and custom electronic motor control

▶ Suitability and performance

- The new **Phantom Vision** provides a 160 liters airflow per minute, for a minimum of 8 hours, on one charge.
- The **Phantom Vision** is available in three sizes to suit the widest range of users.
- Current PAPR users were consulted extensively, and many features of the Phantom Vision were designed specifically in response to customer input.

▶ Decontamination, cleaning and maintenance

- The **Phantom Vision** can continue operating while its user is using a decontamination shower
- Even the exhale valve cover has been re-designed specifically to avoid trapping fibers or particles, and to direct shower water away from the valve.
- After use it is quick and easy to disassemble for further cleaning. All parts can be wiped clean or washed, and re-assembly is easy and straightforward.

▶ Low ownership cost

- On-site failure risks are minimized by a high ease of use and the small number of operating parts.
- The **Vision** face seal has a proven 12 year service life and is easy to replace.
- There is no need to replace filter stocks as the **Phantom Vision** is compatible with all current filter designs.

▶ Ease of use

- The rotating connection to the mask allows the power cable to be freely directed to fit the user.
- The easy-grip battery pack twist-locks onto the belt mounted connection plate. The user just rotates it to turn on the device.
- The **Phantom Vision** is supplied in a sturdy re-useable carry case for transit and storage.

Electronically controlled motor



The **Phantom Vision** is powered by the new high performance brushless motor-fan unit with a 160 liters airflow per minute.

The fan is integrated to the motor and injects air in the mask through a deflector system, avoiding internal misting. The new brushless motor operated thousands of hours during its conception in order to ensure a high reliability with low operating costs (*reduced maintenance*).

► **A vision for the future**

Delivering unrivalled full-shift comfort and an unrestricted field of view, the **Phantom Vision** provides reliability, durability, and simplified maintenance.

Specifications and ordering information

Phantom Vision

Reference	Description
2018779	Phantom Vision M/L system – medium/large size, complete with battery, power belt, charger, PSL filter and storage case
2018778	Phantom Vision M system – medium size, complete with battery, power belt, charger, PSL filter and storage case
2018777	Phantom Vision S system – small size, complete with battery, power belt, charger, PSL filter and storage case

Approved filters for use with Phantom Vision

Reference	Description
PV251 or PF251/2	Type PSL - Solid and liquid particulates (<i>dusts, fibers, mists, fumes, bacteria and virus</i>)
Approval Pending	Type APSL – Gases and organic vapors with a boiling point above 65°C with solid or liquid particles
Approval Pending	Type ABEKHgPSL – Gases and organic vapors with a boiling point above 65°C, gases and inorganic and acid vapors, ammonia and organic ammonia derivatives, mercury and mercury compounds + solid and liquid particles

Certification

CE Compliant - EN12942 Class TM3
Assigned Protection Factor (BS4275) – 40

Water ingress protection allows continued operation in decon shower

Lightweight battery pack with full shift operation and long service life



High levels of comfort, available in 3 sizes for greater user acceptance

Optically correct, distortion-free visor with unrestricted field of view (98 %)

High performance brushless motor providing a 160 liters airflow per minute

These products should not be used in atmospheres that are immediately life threatening, in confined spaces or in atmospheres that are deficient in oxygen (less than 19.5%).

Non contractual document. Any reproduction, even partial, is prohibited without prior agreement. © GazDetect.

► Duraflow

Powered air purifying respirator



Operating principle

The **Duraflow** is a cost effective respiratory protection solution. Its low profile modern design provides users better comfort while working in the harshest environments. The unit itself is extremely affordable and uses the very large RD DIN 40 Pro2000 filter range.

► Real-time flow control

The **Duraflow** is a smart device: the unit is constantly monitoring the flowrate in real-time to ensure correct air delivery to its user.

Even as system parameters change (*such as battery power deterioration for example*), the correct air flowrate is guaranteed. Alarms are triggered if the correct air flowrate cannot be reached. Thus users can take appropriate action.

► Comfortable to wear for long periods of time

The lightweight, low profile ergonomic design provides comfort even over extended periods of hard work.

► Lithium-ION battery

2 lithium-ion battery options:

Standard duration battery - up to 8 hours coverage.

Extended battery duration available for longer shifts - up to 16 hours coverage.

► IP 67 protection

The unit can be submerged when equipped with battery and decontamination plugs.

Technical specification

Certifications: EN12941 . CE 0086.

Air flow: Min 160 l/min, automatic adjustment

Li-ion rechargeable batteries: Available in standard (8 hours) or extended (16 hours) battery discharge time depending on the face piece type

Unit display: Power status, battery gauge, alarm status

Alarms: Low flow and low battery

User notification: after being turned on, the unit beeps 3 times when the correct airflow is reached

Protection Rating:

- IP55 (battery & filters fitted, without decontamination plugs fitted)
- IP67 (battery fitted, with hose, filter and decontamination plugs fitted)

Weight: 600g without filters and battery

Sound level: < 70 dB

Temperature range: -10°C to +50°C

Humidity: <95%

The **Duraflow** features a simple, easy to use control panel, enabling users to concentrate on the task at hand, not their equipment. An automatic monitoring feature checks that the unit is operating correctly, warns the user of low battery and quickly compensates for changes in airflow. Battery levels and flow rate alerts are displayed on the simple LED display.



POWER

The large power switch enables users to power on the unit even with no direct sight. An audible alarm will sound three times when the unit reaches the correct flow rate.



ALERT

The large alert icon turns on if the unit drops below minimum flow rate (160 l/min). This is accompanied by an audible alarm.



BATTERY STATUS

The battery level is displayed through a simple LED gauge, enabling users to quickly check their battery status. An audible alarm will accompany the display when the unit reaches low battery level, warning users to immediately evacuate the hazardous area.

► Pro 2000 filters for Duraflow



Duraflow powered air respirators are fully compatible with a large range of filters in order to respond to almost any industrial application. EN12941 standard approved.

The RD DIN40 PRO 2000 filter cartridge series offers several types of filters for any common application. It provides a protection against many toxic substances, from organic vapors up to mercury vapors.

- Fully recyclable plastics
- The plastic cartridge can be used in working environments with heat sources (closed to an oven or in bright sunlight), less conductive than aluminum
- The housing includes a grid made of reinforced polypropylene that keeps carbon sealed.
- The housing cannot be deformed. If a cartridge falls on the ground, it either breaks and needs to be replaced or there is no effect on the cartridge and on the carbon.

All filters are CE marked according to the EN 14387 and/or EN 143:2000 standards. They are individually packed in order to ensure optimal protection of unused filters.

Filter type	Major applications	Reference
Particulates filters PSL	Solid and liquid particles, radioactive and highly toxic particles	50 52 670
Combined filters A2-PSL	Organic gases and vapors with a boiling point above 65 °C, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	50 42 670
B2-PSL	Inorganic gases and vapors, e.g. chlorine, hydrogen sulfide, hydrogen cyanide, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	50 42 671
A2B2-PSL	Organic and inorganic gases and vapors, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	55 42 674
ABE1-PSL	Organic, inorganic and acid gases and vapors, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	50 42 678
A2B2E2K2-PSL	Organic, inorganic and acid gases and vapors, ammonia, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	50 42 799
A2B2E2K2Hg-PSL	Organic, inorganic and acid gases and vapors as well as ammonia and organic ammonia derivatives, mercury and mercury compounds, solid and liquid particles, microorganisms, e.g. bacteria and viruses	55 42 798

Products and accessories part numbers

Description	Reference
DURAFLOW pack including motor, standard battery, standard belt and charger	20 31 662
Accessories	
Comfort padded belt	50 63 597
Padded harness	50 63 596
Standard battery	20 31 744
Extended battery	20 31 745
Powered air respirator storage box	20 15 899
Distel disinfectant wipe packet	20 04 225
Decontamination plug pack (1x hose cap and 2x filter cap)	20 31 747

► Facepieces



Half hood

FH1

Designed with a unique neoprene face seal to deliver the highest protection level of powered air.

- Revolutionary soft head cradle for intuitive and straightforward equipment
- Ultra-clear PETG visor offering wide field of view and a clear down-view panel
- Half hood design with skin-friendly neoprene chin seal



Full hood

FH2

Light-weight and comfortable full hood with integrated eye protection and shoulder cape.

- Revolutionary soft head cradle for intuitive and straightforward equipment
- Ultra-clear PETG visor offering wide field of view and a clear down-view panel
- Full hood design, with skin-friendly neoprene chin seal



Anti-static full hood

FH21

Light-weight and comfortable anti-static full hood with integrated eye protection and shoulder cape.

- Revolutionary soft head cradle for intuitive and straightforward donning
- Ultra-clear PETG visor offering wide field of view and a clear down-view panel
- Anti-static full hood design with skin-friendly neoprene chin seal



Face shield

FH31

Lightweight, user-friendly, multi-purpose face shield. The hollow polyethylene frame channels the airflow to the breathing zone.

- Lightweight polyethylene frame with anti-mist coated acetate visor
- Washable and replaceable polyether foam face seal
- Face shield design with broad elastic headband harness

► Facepieces



Helmet and visor

FH6

Ideal combination face piece for dangerous environments such as grinding, quarrying, foundry work, construction and ship building.

- Integrated helmet and visor with optional ear defenders
- Choice of visor materials, coatings, and shades.
- Safety helmet and rail-mounted retractable visor with flexible chin seal



Helmet and welding visor

FH62

This face piece combination is designed for the most demanding environments. It includes respiratory, head, face, eye and hearing protection.

- Integrated helmet, visor and welding shield with optional ear defenders
- Electronic variable auto-darkening lens and passive lenses available
- Safety helmet and rail-mounted retractable visor with flexible chin seal and outer welding shield



Facemask

FM3

Based on the design of the Promask, this face mask uses a T-bar face seal design, which provides a highly efficient seal with minimal pressure on the face. It incorporates a wide panoramic visor and a front mounted speech diaphragm.

- Choice of halo-butyl and silicone materials
- Side entry hose improves comfort and balance
- Full facemask available in two sizes, also approved for unpowered use with Pro2000 filters



Facemask

FM4

Full-face mask providing the highest levels of respiratory protection. A flexible hose connector brings the hose up over the wearer's shoulder.

- Ultimate comfort with LSR silicone seal and unrestricted (98%) field of vision
- Side entry hose improves comfort and balance
- Full facemask available in three sizes, also approved for unpowered use with Pro2000 filters

▶ X-plore® 8000

Powered air purifying respirator



Technical specifications

Certifications

EN 12941 with X-plore® 8000 hoods, helmets and visors
 EN 12942 with X-plore® 4740 half masks and X-plore® 6000 and FPS® 7000 full face masks

Ingress protection

IP65 (*dust-tight and resistant to water jets from all sides*)

Airflow

Three adjustable levels (*automatic setting with hood/helmet or half-mask/mask*)

- Half-mask or full face mask: 115, 130 or 145L/min
- Hoods, helmets and visors: 170, 190 or 210L/min

Battery technology

- Standard battery: Lithium-ion 12.6V / 3.4 Ah
- High capacity battery: Lithium-ion 12.6V / 6.8 Ah

Operating time

- Standard battery: 4 hours (*at 210L/min and P3 filter*)
- High capacity battery: 8 hours (*at 210L/min and P3 filter*)

Charging time: Under 4 hours

(*in 2 hours 80% can be reached*)

Weight: Approx. 1,400 g (*X-plore® 8500 with standard battery*)

Alarm system

- Optical alarm (*operating display*)
- Audible alarm (≥ 80 dB(A) at 1 m)
- Vibrating alarm

Belt length: Adjustable between 750 mm and 1,400 mm (*standard and decontamination version*).

Product description

▶ Robust and especially designed for intensive use

The **X-plore 8000** powered air purifying respirator system features heavy-duty design for intensive use with rubber protectors and high ingress protection (IP 65) against dust and water. Protected air intake openings ensure that sparks or water coming from the front will not be sucked into the filter.

▶ Outstanding comfort

The advanced carrying system ensures optimal weight distribution of the unit. The system provides a tight and stable connection between the belt and the unit through a special adaptor plate. The hose connector features a 360° click adaptor. To avoid eye irritation, the system's new headpieces are designed for optimal airflow and maximum comfort.

▶ Self-explanatory operation to minimize user error

The PAPR unit recognizes the connected headgear and automatically selects the correct minimum flow which avoids leakages due to insufficient flow rates. An optical sensor prevents use without filter and ensures the correct display of the particulates filter saturation at any time. The filter system features plug-and-go exchange. In addition to the visual and audio alarm, the unit is also equipped with a vibrating alarm. The entire system features uniform color codes on all exchangeable elements and an error-proof hose connector.

▶ A wide range of components for every application

The **X-plore 8000** offers a number of user-friendly carrying systems for standard and decontamination applications such as half and full-face masks, hoods, and helmets with visor and protective visor. Standard and enhanced flexibility hoses are optionally available and compatibility is ensured.

▶ Easy to maintain

The **X-plore 8000** was designed to be practically maintenance free, leading to low cost of ownership. The self-check systems feature advanced temperature and pressure sensor technology to ensure the right flow rate. The simple and efficient charging system allows rapid charging (*less than 4 hours for an empty battery*). The unit is designed for fast and easy cleaning disassembly.

▶ Available in standard or ATEX versions

The **X-plore 8000** is available in the standard configuration (*X-plore 8500*) and the ATEX configuration (*X-plore 8700*) especially designed for dust or combustible gas explosive zones (1, 2, 21 and 22).

► Filters for X-plore® 8000



X-plore® 8000 powered air purifying respirators feature a complete range of filters to meet almost any industrial application in compliance with the EN12941 standard.

Operating principle: Gases and vapors are removed from ambient air through active carbon absorption. Particles are filtered via a glass microfiber filter.

Compliance : EN 12941 :2009, EN 12942 :2009-02 (system approval in combination with the X-plore 800 powered air purifying respirator)

Material: filter housing in PC-ABS / ABS

Dimensions: 245 x 138 x 100 mm – **Weight:** < 1.1 kg

Packing: Each filter is individually vacuum packed in an aluminum pocket and stored in a cardboard box. (packing unit: 1 unit)

Strip marking: marking with color code in compliant with the EN 12941/12942 standard, lot number and expiration date

Filter type		Main applications	Reference
	Pre-filter	Pre-filter for X-plore 8000 (heavy dust)	67 39 730
Particle filter	PSL	Solid and liquid particles, radioactive and highly toxic particles	67 39 535
	PSL odor barrier	PSL version, anti-odor with activated carbon	67 39 735
Gas filter	A2	Organic gases and vapors like solvents with boiling point above 65°C	67 39 580
	K2	Ammonia and ammonia organic derivatives	67 39 585
Combined filter	A2-PSL	Organic gases and vapors with boiling point above 65°C, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus.	67 39 545
	A1B1E1-PSL	Organic, inorganic and acid gases and vapors, solid and liquid particles, radioactive and toxic particles, microorganisms like bacteria and virus	67 39 550
	A1B1E1K1Hg-PSL	Organic, inorganic and acid gases and vapors, ammonia and organic derivatives, mercury vapors and mercury compounds, solid and liquid particles, radioactive and toxic particles, microorganisms like bacteria and virus.	67 39 555

Part numbers and accessories

Category	Designation	Reference
Basic unit	X-plore 8500 powered air purifying respirator standard NON-ATEX version (motor, belt, standard battery, charger)	R 59 545
	X-plore 8700 powered air purifying respirator ATEX version (motor, belt, standard battery, charger)	R 59 990
Batteries	Standard battery for X-plore 8000	R 59 565
	High capacity battery	R 59 585
	Standard charger	R 59 580
Breathing hoses	Standard hose for hood	R 59 620
	Flexible hose for hood	R 59 600
	Standard hose for half-mask and full face mask	R 59 630
	Flexible hose for half-mask and full face mask	R 59 610
	Standard hose for helmet or protective visor	R 59 640
	Flexible hose for helmet or protective visor	R 59 650
	Disposable hose protection (any type)	R 59 670
	Sparks protection for hose (any type)	R 59 660
Accessories	Standard belt	R 59 700
	Welding specific belt	R 59 720
	Comfort pad	R 59 730
	Carrying case for X-Plore 8000	R 59 690

Non contractual document. Any reproduction, even partial, is prohibited without prior agreement. © GazDetect.

► Facepieces



Standard half-hood: covers the head and face but leaves uncovered ears. Lightweight material (145g) and low-priced. Designed for limited use.

- EN 12941 approved – TH3 (in combination with the X-plore® 8500)
- Hood material: PP/PE – polycarbonate visor
- Available in S/M size (52 to 59 cm) or L/XL size (57 to 64 cm) – Weight: approx. 145 g
- Strapping: adjustable strip (neck zone and above the head), sweatband, removable
- Hose connector on the back
- Permeable material for air output in the chin area



Premium half-hood: well-suited for long-term use. Optimized design and cut makes it easy to don and steady. Reinforced chemical resistance.

- EN 12941 approved – TH3 (in combination with the X-plore® 8500 & 8700)
- Resistant to water and oil
- Hood material: PA with PU coating – polycarbonate visor
- Available in S/M size (52 to 59 cm) or L/XL size (57 to 64 cm) – Weight: approx. 200 g
- Premium sweatband. Double-stitched end to avoid any fraying. Can be cleaned and then reused for long-term application
- Permeable material for air output in the chin area



Standard full hood: complete protection of the head, face and neck. Lightweight material (205 g) and affordable, designed for limited use.

- EN 12941 approved – TH3 (in combination with the X-plore® 8500 & 8700)
- Hood material: PP/PE – polycarbonate visor
- Available in S/M size (52 to 59 cm) or L/XL size (57 to 64 cm) – Weight: approx. 205 g
- Strap set: adjustable strip (neck zone and above the head), sweatband, removable
- Hose connector on the back
- Permeable material for air output in the chin area



Complete Premium hood: complete protection of head, face and neck. Well-suited for long-term use. Reinforced chemical resistance.

- EN 12941 approved – TH2 (in combination with the X-plore® 8500 & 8700)
- Hood material: PA with PU coating – polycarbonate visor
- Available in S/M size (52 to 59 cm) or L/XL size (57 to 64 cm) – Weight: approx. 390 g
- Premium sweatband. Double-stitched end to avoid any fraying. Can be cleaned and then reused for long-term application
- Permeable material for air output in the chin area



Protective visor integrated to respiratory protective equipment. Resistant and long-lasting PC visor equipped with a hood that efficiently protects the head from dust.

- EN 12941 approved – TH2 (in combination with the X-plore® 8500 & 8700)
- Hood material: PA with PU coating – polycarbonate visor (32 cm x 15.5 cm)
- Unique size – Weight approx. 490 g
- Adjustable strip (neck zone and above the head), sweatband, removable
- Hose connector on the back
- Ventilation duct above the head – Diffusion air output

► Facepieces



Helmet with visor (available in black or white). Combining efficient head and eyes protection with efficient respiratory protection. The polycarbonate visor is resistant and long-lasting. It can be raised at 90°

- EN 12941 approved – TH2 (in combination with the X-plore® 8500 and 8700)
- Helmet material: ABS – polycarbonate visor (32 cm x 16 cm)
- Unique size – Weight approx. 630 g
- Adjustable strap (neck zone and above the head), sweatband, removable
- Hose connector on the back
- Ventilation duct above the head – Diffusion air output



Respiratory protective half-mask: combines flexible mask body with a preformed nose area for perfect fit, excellent tightness and comfort

- EN 12942 approved – TM2 (in combination with the X-plore® 8500 & 8700)
- Material: Silicon (black) rigid blue body made of durable plastic
- Available in S/M size (160 g) or M/L size (175 g)
- Flange set: robust and flexible neoprene strip (CR/NR), optional drop down fast release
- Standard RD40 (RA) hose connector thread in compliance with the EN 148-1 standard
- Air output: exhalation valve



Full face mask: enlarged field of vision related to the ocular shape and user face positioning

- EN 12942 certified – TM2 (in combination with X-plore® 8500 & 8700)
- Material: resistant and hypoallergenic EPDM – PMMA scratch-resistant visor
- Universal size – Weight 500 g
- SI or EPDM 5 point flange set
- Standard RD40 (RA) hose connector thread in compliance with the EN 148-1 standard
- Air output: exhalation valve



Panoramic mask: very ergonomic and available in several sizes, it offers optimal field of view and comfortable and safe adjustment

- EN 12942 certified – TM3 (in combination with the X-plore® 8500 & 8700)
- Material: resistant and hypoallergenic EPDM – PMMA scratch-resistant visor
- Available in 3 sizes: S (small), M (medium) and L (large) – Weight approx. 600 g
- SI or EPDM 5 point strap set
- Standard RD40 (RA) hose connector thread in compliance with the EN 148-1 standard
- Air output: exhalation valve



High comfort helmet mask with sober and elegant design featuring an auto-darkening ADF 5 to 13 welding filter. For long-term welding applications.

- EN 12941 approved – TH2 (in combination with the X-plore® 8500)
- Filter darkening automatic adjustment: shade range from 9 to 13
- Visor structure material: PA – visor 3 (9 cm x 11 cm)
- Unique size – Weight approx. 780 g
- Removable adjustable sweatband
- Hose connector on the back - Ventilation duct above the head – Diffusion air output



▶ Visit our websites: www.gazdetect.com
Online store: www.safetygas.com



Atmosphere supplying respiratory protection



Visit our websites: www.gazdetect.com
Online store: www.safetygas.com

► R-PAS kit

Complete self-contained breathing apparatus with carrying case

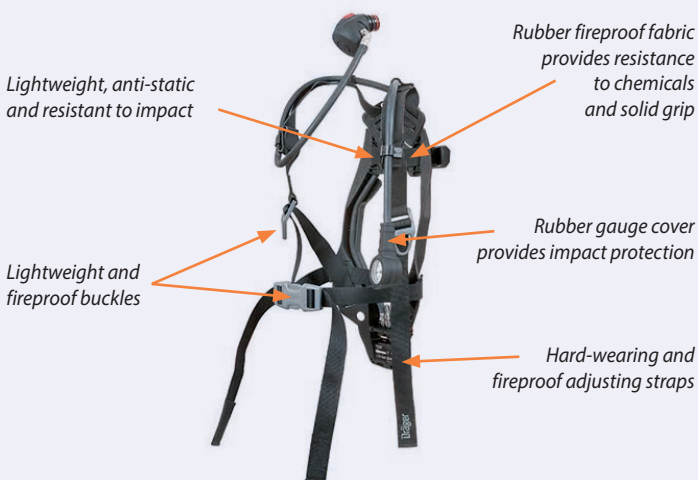


Product description

Designed for industrial applications where a simple, robust, and easy-to-use breathing apparatus is required, the **R-PAS® kit** combines reliability, comfort and performance.

Composed by the latest generation of self-contained breathing apparatus and its rugged carrying case, the **R-PAS® kit** is an all-in-one solution for any situation with potential risk of oxygen deficiency or presence of toxic gas.

Well-suited for use in explosive atmospheres (*ATEX zone*) and compliant with the EN 137-2 standard (*firefighting equipment*) it can also be used for firefighting operations.



Technical specifications

► Efficient load distribution

Incorporating new materials that are shaped and formed to provide maximum comfort on both the shoulders and the waist, the carrying system of this SCBA has been developed to reduce back strain, stress, and fatigue. The carrying system features an ultra-lightweight, high-strength carbon composite carrier-frame for excellent impact, heat, and chemical resistance. The innovative harness design ensures excellent weight distribution.



► Integrated hose design

Both the air supply and gauge hoses are mounted into the back carrier-frame, thus reducing the risk of snagging and entanglement. This enables the user to change the hose position from one side to the other to suit individual preference.

► Safety, comfort and large field of view

The distortion-free lens with 180° wide angle ensures a large field of view with excellent panoramic vision.



A double-layer face seal and triple edge sealing provide a secure and comfortable fit for virtually any face morphology.

The mask body is made from durable EPDM, providing high-level comfort even on prolonged operations.

The mask is delivered with a dedicated bag to avoid any scratches or shock while being carried in the case.

► Extremely resistant and easy to clean

The lightweight and robust compressed air cylinder is made of light steel and features an EN tap. It is compliant with the 3 years periodical inspection and 10 years reclassification statutory regulation.



► Transportable ready to use kit

The carrying case is orange for easy identification. It contains all the SCBA components including the connected and ready to use compressed air cylinder.

► PSS® 3000

High performance self-contained breathing apparatus



Technical specifications

PSS® 3000 Dräger manometer version

Weight (backplate and harness): 2.70 kg

Dimensions in mm (H x W x D): 590 x 290 x 160

Input pressure: 0 – 300 bar

Nominal 1st stage output pressure: 7.5 bar

1st stage output flow: > 1000 l/min

Demand valve output flow: > 400 l/min

Whistle activation pressure: 50 – 60 bar

Whistle sound level: > 90 dBA

Certifications: Breathing Apparatus EN 137 2006 Type 2



Product description

The **PSS® 3000** is a high performing self-contained breathing apparatus (SCBA) for firefighters. Combining comfort with exceptional pneumatic performance, it is designed for applications where simplicity and ease of use are essential. Lightweight yet robust, and easy to don, this advanced SCBA provides the ultimate breathing protection.

► Lightweight, robust and easy to use

To date, the **PSS® 3000** is one of the world's lightest self-contained breathing apparatus carrying system. It features a new and innovative ultra-lightweight, high strength carbon composite carrying frame which exhibits outstanding thermal, impact and chemical resistance properties. The harness - which follows the natural contours of the body - provides improved stability and reduced back strain, stress and fatigue.

► Integrated flexible hoses for improved mobility

The **PSS® 3000** enables the wearer to benefit from leading edge breathing protection technology. Both the medium pressure air supply and gauge hoses are integrated into the carrying-frame to reduce the risk of snagging and entanglement. This gives the user the ability to re-route these flexible hoses from one side to the other according to its preferences.

► Options to handle any eventuality

• FPS® 7000 panoramic mask



The FPS® 7000 full-face mask series sets new standards in terms of safety and wearing comfort. Thanks to its enhanced ergonomics and multiple sizes availability, it offers a large, optimized field of view and a very comfortable secure fit.

• Compressed breathing air cylinders



Designed using the latest technology, advanced materials and EN type taps, Dräger's range of composite cylinders can be used for any air supplying application.

• Dräger PSS® Lung Demand Valve (LDV)



Suitable for the most extreme applications whenever SCBAs have to be used. Once connected to the facepiece, the LDV can move (*rotating connector*) to fit the user's every move.

• Bodyguard® 1000 distress unit



Designed to save lives by alerting nearby teams when its user is motionless or in distress, the **Bodyguard® 1000** emits clear and distinct alarms for fast rescue intervention.

► PSS® 4000

Heavy duty self-contained breathing apparatus



Technical specifications

PSS® 4000 manometer version

3 Weight (backplate and harness): 3.0 kg

Dimensions in mm (H x L x D): 590 x 290 x 160 mm

Inlet pressure: 0 – 300 bar

Reducer outlet nominal pressure: 7.5 bar

Reducer outlet flow: > 1,000 L/min

Demand valve outlet flow: > 400 L/min

Whistle activation pressure: 50 – 60 bar

Certifications:

Self-contained breathing apparatus EN 137 2006 Type 2



Product description

The **PSS® 4000** is a high performing self-contained breathing apparatus (SCBA) primarily dedicated to professional firefighters. Combining comfort with exceptional pneumatic performance, this SCBA is designed for applications where simplicity and ease of use are crucial. Lightweight yet robust, and easy to don, the **PSS® 4000** provides outstanding breathing protection.

► Light, robust and comfortable

The **PSS® 4000** is one of the lightest professional self-contained breathing apparatus on the market. It features a new innovative backplate made of carbon fiber composite materials which provide outstanding thermal, impact and chemical resistance properties. The professional carrying system of the harness follows the natural contours of the body, improving stability and reducing back strain, stress and fatigue.

► Integrated hoses for improved mobility

The **PSS® 4000** SCBA offers high-end breathing protection technology. The medium pressure air supply and gauge hoses are completely integrated into the carrying-frame in order to reduce the risk of snagging and potential entanglement. An additional benefit is the ability to re-route the hoses from one side to the other in order to suit the user's preferences for gauge access.

► Wireless options

• Bodyguard® 1500 distress unit



This motionless detector generates visual and acoustic alert signals if the user is motionless, running out of air or exposed to extreme heat. The system also provides wireless data transmission between the alarm unit and other monitoring devices.

• Tx electronic manometer

The backlit Tx Gauge wirelessly transmits its pressure data to the **Bodyguard® 1500** and also to the FPS 7000 Head-Up-Display (HUD) if it's being used. This feature provides automatic visual notification from the Tx Gauge and acoustic notification from the PASS when the air supply drops below user-defined limits.

• Additional options

- Steel, carbon composite or Kevlar cylinders
- Large choice of lung demand valves
- Electronic voice communications
- Secondary air supply hose connections for rescue
- FPS 7000 Head-up Display (HUD)
- Fast charge option
- Twin cylinder configuration

► SCBA Accessories

Compressed air cylinder for self-contained breathing apparatus



Compressed air cylinders

Designed with cutting-edge technologies and advanced materials, the composite cylinders range from Dräger can be used for any air supplying respiratory protection application.

► Extended range – A cylinder for each application

A large range of compressed air cylinders made of steel or composite with volumes from 4.7 to 9 liters for use under 200 or 300 bars.

► Many available options

All of our cylinders are compliant with the EN 144-1 & 2 and EPI 89/686 and DESP 97/23 directives. Many options are available.

- Excess flow valve
- Bracket design or angular design
- Pressure colorimetric indicator on straight valve



	Lightened steel	Carbon	Composite	Composite	Composite
Material	Lightened steel	Carbon	Composite	Composite	Composite
Weight (kg)	7.0	5.8	2.8	4.0	5.6
Lifetime	Unlimited	Unlimited	15	20 years	20 years
Water volume (Liters)	6.0	6.0	4.7	6.8	9.0
Pressure (bar)	300	300	300	300	300
Usual air volume (Liters)	1636	1636	1274	1854	2454
Runtime (minutes)	41	41	32	46	60
Periodical checking (months)	36	36	12	12	12
Requalification (months)	120	120	24	24	24
Dimension H / Ø (mm)	510 / 139.5	494 / 155	480 / 137	546 / 152.5	549.5 / 175.5
Part Number	33 55 002	33 53 739	33 53 731	33 55 738	33 53 734

Valves for compressed air cylinders



Featuring triangular taps to be handy, they are all compliant with the EN 144-1 & 2 standards.

Optional:

- Safe flow reducer to divide by 2 the air flow in case of unintended opening of the tap (or break).
- Pressure gauge (mounting: bracket or angular)

► X-plore® 9300

Constant flow supplied air respirator system – Airline respirator



Technical specifications

- Materials specifications:** Antistatic (approved for ATEX zone 1)
Connector: Nickel plated brass
Cover: Nylon 6/6
Standard belt: Polyester
Decontamination belt: Polyester with PTFE coating
Leather belt: leather
Weight: < 0.5 kg
Standard air inlet connector: CEJN 96
Other available connectors (option): Hensen HK, Hensen 3000, Foster, Schreader, Stäubli, Walther
Size (L x H x w): Belt connector system
 120 mm x 160 mm x 40 mm
Operating temperature: -30°C to +60°C -10°C to +60°C
Inlet pressure on user: 3 to 10 bar
Flow: 200 to 1,200 L/min
Alert whistle sound volume: > 90 dbA
Required components:
 - Dräger X-plore® constant flow facepiece
 - Related breathing hose
 - Belt**European certifications (EN):**
 EN 14594:2005
 Directive PPE 89/686/CEE
Other certifications:
 AS/NZS 1716:2003, section 8
 Russia VNIIPO, GOST
 Japan JIS

Product description

The X-plore® 9300 airline respirator is designed for usual industrial applications and provides comfortable and reliable respiratory protection. Thanks to features such as the patented safe-flow reducer and the auto-test function, X-plore® 9300 users can enjoy more operating convenience, safety and flexibility.

► Adjustable and appropriate air flow

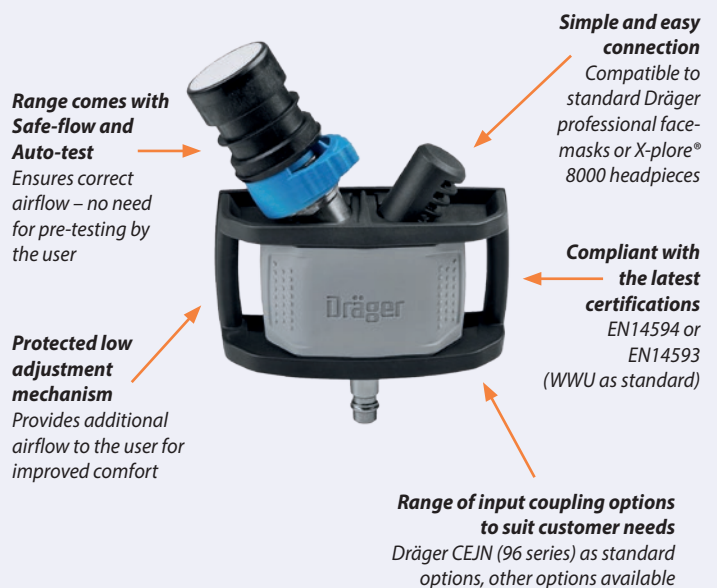
With an inlet pressure of 3 to 10 bar and a patented air flow reducer, the X-plore® 9300 supplied air respirator system covers a large range of usual industrial applications. This specific function can provide a continuous and sufficient air flow to the user, even in case of external air supply pressure variations. Moreover, these belts feature a secured flow adjustment in order to increase air flow, and as a consequence the comfort of the user.

► A large range of facepieces

Each facepiece available for the X-plore® 8000 supplied air respirator system is fully compatible with the X-plore® 9300 - half-masks, full face masks, hoods and protective visors. Standards or reinforced flexible (optional) hoses also are available and compatible with the X-plore® 9300.

► Cost-effective maintenance

The X-plore® 9300 supplied air system is easy to maintain and the cost of spare parts required to replace contaminated components is reduced. This enables to spare time and money as no particular cleaning is required.



► Facepieces



Standard half-hood

Covers the head and face but leaves uncovered ears. Cost-efficient, designed limited use.

- Hood material: PP/PE – polycarbonate visor
- Available in S/M size (52 to 59 cm) or L/XL size (57 to 64 cm)
- Weight: approx. 145 g



Helmet with visor

Providing head and eyes protection with efficient respiratory protection. The polycarbonate visor is resistant and long-lasting. It can be raised at 90°.

- Helmet material: ABS – polycarbonate visor (32 cm x 16 cm)
- Unique size
- Weight approx. 630 g



Premium half-hood

Ideal for extended use. Stable donning. Reinforced chemical resistance.

- Hood material: PA with PU coating – polycarbonate visor
- Available in S/M size (52 to 59 cm) or L/XL size (57 to 64 cm)
- Weight: approx. 200 g



Respiratory protective half-mask

Combines flexible mask body with a pre-formed nose area for perfect fit, excellent tightness and comfort.

- Material: Silicon (black) rigid blue body made of durable plastic
- Available in S/M size (160 g) or M/L size (175 g)



Standard full hood:

complete protection of the head, face and neck. Lightweight material (205 g) and affordable, designed for limited use.

- Hood material: PP/PE – polycarbonate visor
- Available in S/M size (52 to 59 cm) or L/XL size (57 to 64 cm)
- Weight: approx. 205 g



Full face mask

Enlarged field of view related to the visor shape and user face positioning

- Material: resistant and hypoallergenic EPDM – PMMA scratch-resistant visor
- Universal size
- Weight 500 g



Complete Premium hood

complete protection of head, face and neck. Well-suited for extended use. Reinforced chemical resistance.

- Hood material: PA with PU coating – polycarbonate visor
- Available in S/M size (52 to 59 cm) or L/XL size (57 to 64 cm)
- Weight: approx. 390 g



Panoramic mask

Very well designed, ergonomic and available in several sizes, it offers optimal field of view and comfortable and safe adjustment

- Material: resistant and hypoallergenic EPDM
- Available in 3 sizes
- Weight approx. 600 g



Protective visor

Resistant and long-lasting PC visor equipped with a hood that efficiently protects the head from dust.

- Hood material: PA with PU coating – polycarbonate visor (32 cm x 15.5 cm)
- Unique size
- Weight approx. 490 g



Welding helmet mask

High comfort helmet mask with sober and elegant design featuring an auto-darkening ADF 5 to 13 welding filter. For long-term welding applications.

- Filter darkening automatic adjustment: shade range from 9 to 13
- Unique size
- Weight approx. 780 g






► X-plore® 9300

Constant flow supplied air respirator system



The X-plore® 9300 airline respirator is an ideal solution for many industries. Ideal in environments where the correct oxygen rate can't be guaranteed, this supplied air respirator combines the highest level of respiratory protection to an extended use.

Completely modular, the various parts of the system provide an almost unlimited flexibility, allowing users to build a system that perfectly meets their needs

Compressed air supply system

		Designation	Part Number
	System	X-plore 9300 supplied air respirator	33 63 587
		Standard belt size L (<i>large</i>)	33 63 682
		Decontaminable belt size L (<i>large</i>)	33 63 683
		Leather belt size L (<i>large</i>)	33 63 462
		Comfort pad for X-plore 9300	33 63 425
	Hoses	Standard hose for hoods	R 59 620
		Standard hose for helmets and visors	R 59 640
		Flexible hose for hoods	R 59 600
		Flexible hose for helmets and visors	R 59 650
	Hoods	Standard half-hood (<i>size L/XL</i>)	R 59 810
		Premium half-hood (<i>size L/XL</i>)	R 59 850
		Standard full hood (<i>size L/XL</i>)	R 59 830
		Premium full hood (<i>size L/XL</i>)	R 59 870
	Masks and half-masks	X-plore 4740 half-mask (<i>size L/XL</i>)	R 59 870
		X-plore 6300 full face mask	R 55 800
		Panorama standard P mask with bandage	R 54 450
		FPS 700 mask (<i>size L/XL</i>)	R 56 300
	Helmets and visors	Helmet with visor (<i>black</i>)	R 58 325
		Protective visor	R 59 900
		Welding helmet	R 59 920

Air supply

		Désignation	Part Number
	Air supply hoses	3 meters length	33 52 463
		5 meters length	AL 01 260
		10 meters length	AL 01 261
		20 meters length	AL 01 262
		30 meters length	33 52 467
		50 meters length	33 52 468
	Air filter unit	PAS F3000P portable filter unit for 3 users with CEJN connectors (1/4" BSP inlet connector)	33 59 916
		PAS F3000P portable filter unit with pre-filter for 3 users with CEJN connectors (1/4" BSP inlet connector)	33 59 922

▶ PAS X-plore®

On-demand airline respirator mask



Technical specifications

- Materials specifications:** Antistatic (approved for ATEX zone 1)
Connector: Nickel plated brass – Cover: Nylon 6/6
Standard belt: Polyester
Decontamination belt: Polyester with PTFE coating
Leather belt: leather
Weight: < 0.5 kg
Standard air inlet connector: CEJN 96
Other available connectors (option): Hensen HK, Hansen 3000, Foster, Schreder, Stäubli, Walther
Taille (L x H x I): Belt connector system
 120 mm x 160 mm x 40 mm
Operating temperature: -30°C to +60°C -10°C to +60°C
Inlet pressure on user: 5 to 10 bar
Flow: 400 to 1,200 L/min
Alert whistle sound volume: > 90 dbA
Required components:
 - Dräger full face mask with P connector
 - Lung demand valve (LDV)
 - Belt**European certifications (EN):** EN 14593 parts 1 and 2
 Directive PPE 89/686/CEE

▶ Supplied air respirator mask codification

Designation	Reference
PAS X-plore airline system with belt, valve and Panorama Nova P mask with carrying case and mask protective bag	36 80 835

Product description

The PAS X-plore® is a **supplied air respirator mask with lung demand valve (LDV)** especially designed for industrial applications. Featuring user-friendly specifications such as a patented flow reducer and a self-check function, this device provides its users high comfort of use, increased safety and improved flexibility.

▶ Adjustable and appropriate air flow

With an inlet pressure of 5 to 10 bar and a patented air flow reducer, the PAS X-plore® supplied air respirator system covers a large range of industrial applications. This specific function can provide a continuous and sufficient air flow even in case of modification of the external air supply pressure. Moreover, these belts feature a secured flow adjustment in order to increase air flow and as a consequence the comfort of the user.

▶ Cost-effective maintenance

The PAS X-plore® supplied air respirator system is easy to maintain and the cost of spare parts required to replace contaminated components is reduced. Thus enabling spare time and money as no particular cleaning is required.

▶ Accessories

• FPS 7000® panoramic mask

The FPS 7000® full face mask sets standards for safety and comfort of use. Very ergonomic and available in different sizes, it provides optimal field of view and safe and comfortable adjustment.

• Dräger PSS® lung demand valve

Efficient in the harshest conditions when a respiratory protective equipment must be worn: once connected to a facepiece, the PSS can rotate (*rotating connector*) to fit the user's movements.

• Air supply

Designation	Reference
3 meters length	33 52 463
5 meters length	AL 01 260
10 meters length	AL 01 261
20 meters length	AL 01 262
30 meters length	33 52 467
50 meters length	33 52 468
PAS F3000P portable air purifying unit. 3 outlets with CEJN connectors (1/4" BSP inlet connector)	33 59 916
PAS F3000P portable air purifying unit with pre-filter. 3 outlets with CEJN connectors (1/4" BSP inlet connector)	33 59 922

► PAS® Micro

Short duration self-contained breathing apparatus



Technical specifications

Max dimensions (L x H x D): 300 x 550 x 80 mm

Operating temperature range: -30 to +70°C

Weight: 2 kg

Input pressure cylinder: 200 or 300 bar

Input pressure airline: 6 to 9 bar

Nominal first stage output pressure: 7 bar

First stage output flow: > 600L/min

Airflow, demand valve: > 400 L/min

Alarm activation pressure*: 55 – 60 bar (serial EN 137)
4 – 5 bar (optional EN 402)

Whistle sound level*: > 90 dBA

* Whistle for EN402 unit located as an option on the Airline belt manifold.

Designation	Reference
PAS® Micro OC-SCBA / EN 137 or SOV version	33 52 640
Lightened steel cylinder 3 liters / 200 bar	33 53 813
Lightened steel cylinder 3 liters / 300 bar	33 53 811
Demand valve	33 38 700
Panorama mask standard P / EPDM	R 54 450
PAS® SOV automatic reverser for PAS Colt	33 54 141
5 meter length	AL 01 260
10 meter length	AL 01 261
20 meter length	AL 01 262
30 meter length	33 52 467
PAS F3000P portable filter unit for 3 users with CEJN connectors (1/4" BSP inlet connector)	33 59 916

Product description

Flexible and easy to use, the **PAS® Micro** is a self-contained breathing apparatus especially designed for short duration interventions or emergency evacuations. Moreover, it offers the opportunity to connect an air supply through an automatic reverser system (SOV).

► Ergonomic harness

The **PAS® Micro** is ergonomically designed to follow the natural contours of the back, increasing user comfort and stability during use. The hose and pressure reducer have been integrated into the backplate, reducing the risk of snagging, protecting the pressure reducer and adding to the streamlined shape of the set.

► Compliant with the EN 137 standard

The **PAS® Micro** harness has been constructed using an anti-static, flexible and robust material. It is fully machine washable and easy to maintain. Benefiting from a high resistance to abrasion and heat, this new harness meets the EN137 heat and flame resistance requirements.

PAS® SOV automatic reverser



The PAS® SOV automatic reverser enables its user to connect compressed air respiratory devices to an external air supply such as a factory air network or a breathing air compressor.

In case of incident or interruption on the primary air source, the PAS® SOV automatic reverser instantly switches the air supply to a spare source (*compressed air cylinder*). An alarm whistle warns the user when he or she is breathing air from the compressed air cylinder.

► Benefits

- Compliant with the new EN 14593-pt.1 standard on reversers
- Keeps positive pressure during the switch
- Ensures overpressure = improved safety
- Automatic system
- Alert whistle

▶ PAS® Colt

Short-term self-contained breathing apparatus



Technical specifications

Maximum dimensions (L x H x D): 500 x 950 x 70 mm

Operating temperature range: -30°C to +70°C

Weight: 1 kg

Cylinder inlet pressure: 200 or 300 bar

Compressed air dispatcher inlet pressure: 6 to 9 bar

First stage nominal output pressure: 7 bar

First stage air flow: > 600L/min

LDV output flow : >400 l/min

Alarm pressure*: 55 - 60 bar (EN 137 serial)
4 - 5 bar (EN 402 optional)

Alarm signal power*: > 90 dBA

* Optional EN 402 compliant alarm signal on belt.

Designation	Reference
PAS® Colt* steel cylinder 3 liters / 200 bar	33 52 634
Lightened steel cylinder 3 liters / 200 bar	33 53 813
Panorama standard mask P / EPDM	R 54 450
PAS® SOV automatic reverser for PAS Colt	33 54 140
5 meter length	AL 01 260
10 meter length	AL 01 261
20 meter length	AL 01 262
30 meter length	33 52 467
50 meter length	33 52 468
PAS F3000P portable purifying unit. 3 outlets with CEJN connectors (1/4" BSP inlet connector)	33 59 916

* OC-SCBA / EN 137 version

Product description

Flexible and easy to use, the **PAS® Colt** is approved for short term interventions or for emergency escape situations. It also provides the opportunity to connect an air supply through an **automatic reverser system**. Thus it can also be used as a supplied air respirator system.

▶ Ergonomic harness

The **PAS® Colt** is a unit mounted on the user's hip. Its sophisticated and distinctive harness maintains its shape for easy and quick donning. The device is user-friendly and can easily be operated right away, even by inexperienced users.

▶ High quality materials

The extremely robust and flexible harness is machine washable. It is made of antistatic materials and is approved for interventions in zone 1. The closed cell foam padding is resistant to water, oil and chemical substances as well as acids and bases. It remains reliable even in case of extreme temperatures and features high resistance to heat, wear and tear.

▶ Nova Panorama panoramic mask

The Nova Panorama full face mask sets new standards regarding safety and comfort of use. Very ergonomic and available in EPDM or silicon, it offers a large field of view and both comfortable and safe adjustment.

PAS® SOV automatic reverser



The PAS® SOV automatic reverser enables its user to connect compressed air respiratory devices to an external air supply such as a factory or laboratory air network or a breathing air compressor.

In case of incident or interruption on the primary air source, the PAS® SOV automatic reverser instantly switches the air supply to a spare source (compressed air cylinder). An alarm whistle warns the user that he or she is breathing air from the compressed air cylinder.

▶ Benefits

- Compliant with the new EN 14593-pt.1 standard on reversers
- Keeps positive pressure during the switch
- Ensures overpressure = improved safety
- Automatic system
- Alert whistle

▶ PAS® AirPack 1

Breathing air trolley for airline systems



Technical specifications

PAS® AirPack 1 with hose and reel

Size excluding cylinder (H x L x D): 1,019 x 4565 x 60 mm

Weight: 40.5 kg

Input pressure (high pressure): 200 or 300 bar

Input pressure (medium pressure): 6 to 10 bar

Nominal first stage output pressure: 8 bar

First stage output flow: > 600L/min

High pressure whistle activation pressure: 55 to 60 bar

Medium pressure whistle activation pressure: 4 to 5 bar

Whistle sound level: > 90 dBA

Whistle frequency range: 2,000 to 4,000 Hz

Operating temperature range: from -32 to +70°C

Designation	Reference
Air cart, reducer, hose reel and 50 meters hose	33 52 228
Y piece for 2 users	R 27 945
3 meter length	33 52 463
5 meter length	AL 01 260
10 meter length	AL 01 261
20 meter length	AL 01 262
30 meter length	33 52 467
50 meter length	33 52 468
6 liters 300 bar steel cylinder	33 55 002
9 liters 300 bar composite cylinder	33 53 734
PAS F3000P portable filter unit for 3 users with CEJN connectors (1/4" BSP inlet connector)	33 59 916

Product description

Designed using the leading technology and materials, the **PAS® AirPack 1** is ideal for use where an extended duration of breathable air is called for.

▶ Structure with epoxy coating

The **PAS® AirPack 1** airline trolley is made of epoxy anti-static coated steel for use in classified areas. The base material is pre-treated with zinc for corrosion protection.

▶ The Plus pneumatic system

The **PAS® AirPack 1** benefits from the internationally renowned, tried and tested, pneumatics system used on Dräger's successful PSS range of compressed air breathing apparatus.

The system incorporates a safety pressure relief valve and the pressure reducer is shrouded in a protective plate for additional safety.

▶ Compatibility with compressed air cylinders

The **PAS® AirPack 1** airline trolley is able to accommodate compressed air cylinders from 6 to 12 liters under 200 or 300 bar service pressure.

▶ Up to four compressed air cylinders

Thanks to the Quad Pack extension, the **PAS® AirPack 1** breathing cart can carry up to four compressed air cylinders for higher autonomy.



▶ PAS® AirPack 2

Breathing air trolley for airline systems



Technical specifications

PAS® AirPack 2 with 2 pneumatic systems, two hose reels and lifting eye

Size excluding cylinder (H x L x D): 1,140 x 668 x 1,200 mm

Weight: 83.3 kg

Input pressure (high pressure): 200 or 300 bar

Input pressure (medium pressure): 6 to 10 bar

Nominal first stage output pressure: 8 bar

First stage output flow: > 600L/min

High pressure whistle activation pressure: 55 to 60 bar

Medium pressure whistle activation pressure: 4 to 5 bar

Whistle sound level: > 90 dBA

Whistle frequency range: 2,000 to 4,000 Hz

Operating temperature range: from -32 to +70°C

▶ Accessories



Product description

Designed using the leading technology and materials, the **PAS® AirPack 2** is a high capacity breathing air trolley that can contain up to two B50 compressed air cylinders.

▶ Structure with epoxy coating

The **PAS® AirPack 2** airline trolley is made of epoxy anti-static coated steel for use in classified area. The base material is pre-treated to zinc for optimal corrosion protection.

▶ The Plus pneumatic system

The **PAS® AirPack 2** benefits from the internationally renowned, tried and tested, pneumatics system used on Dräger's successful PSS range of compressed air breathing apparatus.

The Plus system incorporates a safety pressure relief valve and the pressure reducer is shrouded in a protective plate for additional safety.

▶ Compatibility with compressed air cylinders

The **PAS® AirPack 2** airline cart is able to accommodate up to two 50 liters compressed air cylinders (*B50 cylinders*). Replacing a cylinder is eased and secured thanks to the exclusive tilting frame.

Designation	Reference
Breathing air trolley, one pneumatic system, one hose reel and lifting eye	33 52 995
Breathing air trolley, two pneumatic systems, two hose reels and lifting eye	33 52 236
50 liters / 300 bar steel cylinder	65 26 395
Y piece for 2 users	R 27 945
5 meter length	AL 01 260
10 meter length	AL 01 261
20 meter length	AL 01 262
30 meter length	33 52 467
50 meter length	33 52 468
PAS F3000P portable filter unit for 3 users with CEJN connectors (1/4" BSP inlet connector)	33 59 916

► PAS® filter unit

Breathing air supply equipment



Technical specifications

Housing: robust, stable housing made of polyethylene
Dimensions (h x l x d): 430 x 280 x 162 mm
Weight: 4.5 – 6.5 kg
Maximum capacity: 760 – 1,080 L/min
Coalescing filter: yes
Active carbon filter: yes
Condensate container: yes
Maximum inlet pressure: 16 bar
Inlet connector: F3000/3500: 1/4" BSP (female)
 F5000/5500: 1/4" BSP (female)
Outlets: 3 / 5 x CEJ
Unit outlet air conformity: NF EN 12021
Options: pre-filter for heavy-dirty air

Product description

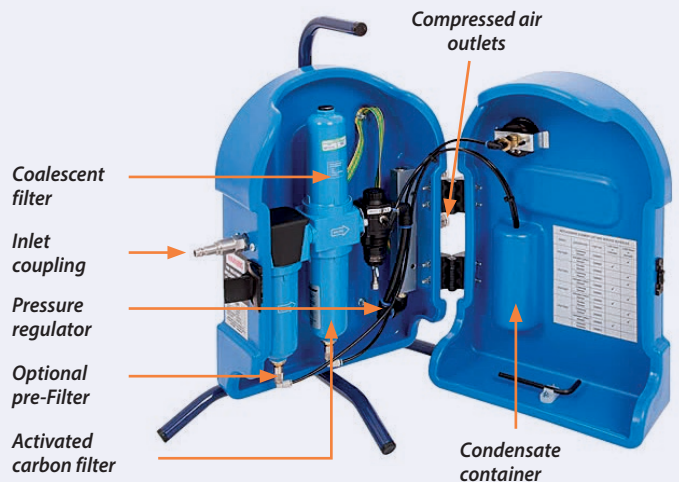
When connected to a high pressure compressed air network or a breathing air compressor, the **PAS® filter unit** removes liquid and solid particles, oil vapors and smell. The breathable air produced by the unit is highly compliant with the NF EN 12021 standard requirements.

► Wall-mounted or portable device

The **PAS® filter unit** can be mounted to a wall or stand on the ground. The portable version features a carrying handle, lateral connectors and three legs to be protected against dirt. This also enables good steadiness on uneven surfaces.

► Air pressure manual adjustment

The primary pressure from the line can be easily adjusted on the filter unit using a key. The set pressure is displayed on the manometer directly on the filter.



	Model	Capacity	Pré-filtre	Outlet	Model	Weight	Reference
3000 SERIES	PAS F3000	760 l/min	No	3 x CEJN	Mounted	4.5 kg	33 59 915
	PAS F3000-P		No		Portable	5.0 kg	33 59 916
	PAS F3500		Yes		Mounted	5.5 kg	33 59 921
	PAS F3500-P		Yes		Portable	6.0 kg	33 59 922
5000 SERIES	PAS F5000	1 080 l/min	No	5 x CEJN	Portable	5.0 kg	33 59 923
	PAS F5000-P		Yes		Mounted	5.5 kg	33 59 924
	PAS F5500		Yes		Portable	6.0 kg	33 59 925
	PAS F5500-P		oui		Portable	6.5 kg	33 59 922

▶ VAR 18

Breathable air quality controller EN 12021 & AREVA standards compliant



Technical features

Power supply: from 90 to 240 V – 50 or 60 Hz/1A
Alarm report: 24 VDC positive safety
Zero calibration: touch-screen
Communication port: RS232C and RS485
Communication port option: CAN, Ethernet, Profibus
Communication port configuration: serial printer, Modbus, Modem
Operating temperature: 5 to 45°C
Storage: -20 to +50°C
Dimensions: 450 x 380 x 500 mm
Weight: 14 kg
IP rating: IP 66

Measuring sensors specifications

	CO	CO2	O2	Hygrometry	Oil vapor
Technology	Electrochemical	Infrared	Electrochemical	Polymer	PID
Lifetime	> 3 years	> 5 years	> 2 years	> 3 years	1 year
Guarantee	2 years	2 years	2 years	2 years	1 year
Scale	100 ppm	3000 ppm	25% volume	0 to -80°C	0 to 20 ppm – 4mg/m ³
Accuracy	1%	1%	1%	2%	5 ppb
Linearity	1%	1%	1%	Linear	Linear
Response time (T90)	35 seconds	5 seconds	12 seconds	180 seconds	5 seconds

Product description

The **VAR 18** controller was designed for monitoring industrial and medical breathable air distribution systems. Integrated into a rolling case, the **VAR 18** controller provides constant monitoring of: CO/CO₂/O₂, hygrometry, oil vapors and dust particles. Its customizable thresholds preset are compliant with the NF EN 12021 standard.

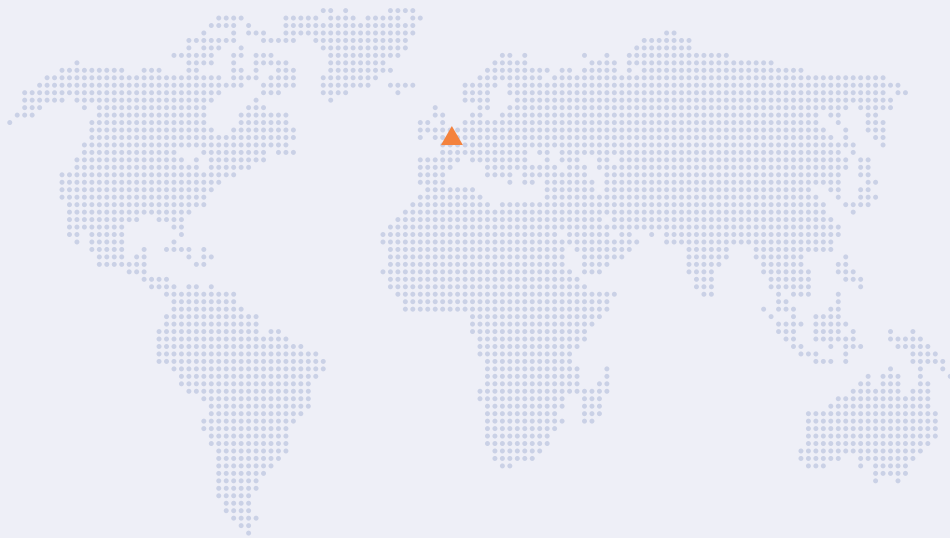
Robust, this device is equipped with pressure and flow regulators to get accurate measurements on the long run. An alarm report output is available on the front and an optional printer can edit certificates.

The colored touch-screen can display values and curbs with 24-hour history for each measure. Sensors calibration is performed through this touch-screen. Optional sensors for NO, NO₂, SO₂ and NH₃ are available as well.

A flash memory logs values and alarms. Various included software allows data transfer and remote interventions.

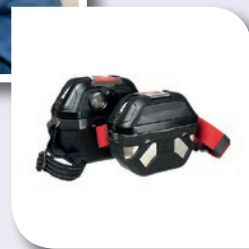
▶ Features

- Permanent monitoring of EN 12021 standard gases
- Data recording of alarm events and calibrations (10 years on an SD card)
- Three communication port presets to connect different protocols
- Optional particles monitoring on 4 channels with mass estimation
- Up to 8 gas monitoring



▶ Visit our websites: www.gazdetect.com
Online store: www.safetygas.com

Emergency evacuation solutions



Visit our websites: www.gazdetect.com
Online store: www.safetygas.com

▶ PARAT® 3100

Evacuation air purifying unit (escape half mask)



Technical specifications

Air purifying performances	ABEK-15 gas filter against organic and inorganic gases and vapors
Storage life	4 years maintenance-free, filter replacement every 4 years, 12 years total lifetime
Dimensions	(L x l x h) 170 x 110 x 90 mm
Weight	Approximately 360g
Certifications	DIN 58647 part 7 (CE 0158)

Operating principle

The **PARAT® 3100** is an evacuation half mask equipped with an ABEK-15 gas filter. Stored in a robust and ergonomically designed housing, it is compact and easy to carry. Compliant with the only renowned standard on air purifying industrial escape units (DIN 58647-7), it provides at least 15 minutes of safe air to its user for emergency evacuation.

▶ Easy And quick operation

To operate, the user just needs to open the case and place the self-rescuer on his/her face. Pictograms on the enclosure explain this process.

▶ Easy donning

Half-mask with 2-point fixing flange and ABEK-15 cartridge for reliable protection against many industrial toxic gases.

▶ 12-year lifetime

4 years maintenance-free, filter replacement every 4 years, 12 years total lifetime for this escape half-mask

▶ Compatible with other PPE

Safety goggles, helmets...

▶ Tropical version

The **PARAT® 3160** (tropical version) is vacuum packed in an aluminum ideal for use in tropical areas.



▶ Air purifying capabilities in compliance with the DIN 28647-7* standard

Type	Calibration gas	Concentration in ppm	Breakthrough concentration in ppm	Minimal breakthrough time in min
A	Cyclohexane (C6H12)	2,500	10	15
B	Chlorine (Cl2)	2,500	0.5	15
B	Hydrogen sulfide (H2S)	2,500	10	15
B	Hydrogen cyanide (HCN)	2,500	10	15
E	Sulfur dioxide (SO2)	2,500	5.0	15
K	Ammonia (NH3)	2,500	25	15
B	Hydrogen sulfide (H2S)	10,000**	20	5

* Testing conditions: 30L/min, 70% relative humidity, 20°C.

** In order to identify the protection capability, the gas filter has also been tested at 10,000 ppm of hydrogen sulfide.

▶ PARAT® 3200

Air purifying escape unit (escape half mask)



Technical features

Filter performance	ABEK-15 gas filter against organic and inorganic gases and vapors
Shelf life	4 years maintenance free, filter exchange every 4 years, total shelf life 12 years
Dimensions (L x W x H)	170 x 110 x 60 mm
Weight	Approx. 330 g
Certifications	DIN 58647 part 7 (CE mark 0158)

Operating principle

The **PARAT® 3200** is a mouthpiece / nose-clip escape device equipped with a multi-gas ABEK15 filter. Packed in a robust and ergonomic case the unit is compact and easy to carry. Compliant with the only recognized standard for filtering industrial escape devices (DIN 58647-7) – it provides users a minimum of 15 minutes escape time.

▶ Fast and easy operation

The mouthpiece with nose clip is easy and safe to install on the face. Pictograms labeled on the unit describe the correct procedure.

▶ Easy to use

Mouthpiece and nose clip with ABEK-15 filter provides reliable protection against a wide range of toxic industrial gases.

▶ 12 years shelf life

4 years maintenance free, filter exchange every 4 years, total shelf life 12 years.

▶ Compatibility with other PPE

Glasses, helmets, ...

▶ Tropical version

The **PARAT® 3260** (tropical version) is delivered vacuum-sealed in an aluminum barrier bag, making it better suited for tropical climate and polluted zones.



▶ Gas filter capacity according to DIN 58647-7*

Type	Test gas	Concentration in ppm	Breakthrough in ppm	Minimum exposure time in min
A	Cyclohexane (C6H12)	2,500	10	15
B	Chlorine (Cl2)	2,500	0.5	15
B	Hydrogen sulfide (H2S)	2,500	10	15
B	Hydrogen cyanide (HCN)	2,500	10	15
E	Sulfur dioxide (SO2)	2,500	5.0	15
K	Ammonia (NH3)	2,500	25	15
B	Hydrogen sulfide (H2S)	10,000**	20	5

* Test conditions: 30 l/min, 70 % relative humidity, 20 °C.

** To determine the capacity of the gas filter it is additionally tested with 10 000 ppm hydrogen sulfide.

▶ PARAT® 4700

Air purifying escape unit (escape hood)



Technical features

Filter performance	ABEK-15 gas filter against organic and inorganic gases and vapors
Shelf life	16 years (provided the filter is exchanged after eight years)
Certifications	DIN 58647-7, additionally tested in accordance with the EN 403:2004 standard

Operating principle

The **PARAT® 4700** industrial escape hood was developed in cooperation with users with one goal in mind: providing the fastest possible escape. Optimized operation and wearing comfort, a robust housing and a tested ABEK-P3 filter ensure protection from industrial toxic gases, vapors and particles for at least 15 minutes while escaping.

▶ 16 years of service life

With 16 years of service life (replacing the filter after 8 years), this hood provides both respiratory and eye protection.

▶ High-performance filter

Combined filtration of gases, solid and liquid particles. The filter's expiration date is clearly marked and the filter is automatically released from the packaging when opened.

▶ Clear view

A wide field of vision (special visor shape) provides a continuously clear view thanks to a special anti-fog coating. Bright hood signal color for high visibility.

▶ 2 available versions

Unit	Description	Dimensions in mm (L*w*h)	Weight
PARAT 4720	Soft hood	215 x 155 x 105	660 g
PARAT 4730	Rigid hood	241 x 143 x 107	720 g

▶ Gas filter capacity according to DIN 58647-7*

Type	Test gas	Concentration in ppm	Minimum exposure time in min
A	Cyclohexane (C6H12)	2,500	15
B	Chlorine dioxide (Cl2)	2,500	15
B	Hydrogen sulfide (H2S)	2,500	15
B	Hydrogen cyanide (HCN)	2,500	15
E	Sulfur dioxide (SO2)	2,500	15
K	Ammonia (NH3)	2,500	15
B	Hydrogen sulfide (H2S)	10,000 ¹	5

* Test conditions: 30 l/min, 70 % relative humidity, 20 °C.

¹ The penetration safety of the gas filter is additionally tested with 10,000 ppm of hydrogen sulfide.

▶ **PARAT® 5500** Air purifying escape unit (fire escape hood)



Technical features

Filter performance	CO P2 combination filter against toxic fire-related gases, vapors and particles
Period of use	At least 15 minutes
Total service life	16 years (provided the filter is exchanged after eight years)
Certifications	EN 403:2004 compliant, additionally tested for use against H ₂ S (at 2,500 ppm) in accordance with the DIN 58647-7 standard

Operating principle

The **PARAT® 5500** fire escape hood was developed in cooperation with users with one goal in mind: providing the fastest possible escape. Optimized operation and wearing comfort, a robust housing and a tested CO P2 filter ensure protection from toxic fire-related gases, vapors and particles for at least 15 minutes while escaping.

▶ 16 years of service life !

Replacing the filter after 8 years, this hood provides both respiratory and eye protection.

▶ High-performance filter

CO-P2 combination filter against toxic fire-related gases, vapors and particles. The filter's expiration date is clearly marked and the filter is automatically released from the packaging when opened.

▶ Clear view

A wide field of vision (special visor shape) provides a continuously clear view thanks to a special anti-fog coating. Bright hood signal color for high visibility.

▶ 2 available versions

Unit	Description	Dimensions in mm (L*w*h)	Weight
PARAT 5520	Soft hood	215 x 155 x 105	660 g
PARAT 5530	Rigid hood	241 x 143 x 107	720 g

▶ Gas filter capacity according to the EN 403 :2004* standard

Test gas	Concentration in ppm	Minimum exposure time in min
Carbon monoxide (CO)	2,500 ¹	15
Acrolein (C₃H₄O)	100	15
Hydrogen chloride (HCl)	1,000	15
Hydrogen cyanide (HCN)	400	15

* Test conditions: 30 l/min, 70 % relative humidity, 20 °C.

¹ Additional tests are carried out at 5,000, 7,500 and 10,000 ppm.

▶ Gas filter capacity according to the DIN 58647-7* standard

Test gas	Concentration in ppm	Minimum exposure time in min
Hydrogen sulfide (H₂S)	2,500	15

* Test conditions: 30 l/min, 70 % relative humidity, 20 °C.

► M20-2

Compressed oxygen self-rescuer mask



Technical specifications

- Performance duration (operating):** 15 – 20 min
- Performance duration (at rest):** 32 min
- Donning time:** less than 10 seconds
- Weight:** 0.94 kg – with storage housing: 1.4 kg
- Dimensions:** 17 x 17 x 7.6 cm
- Storage temperature range:** -20° C to 65° C
- Available oxygen:** 27 Liters
- Repair/refurbish after use:** NO
- Service life:** 15 Years
- Oxygen delivery system:**
Compressed at 256 bar, automatic valve, constant flow and demand regulated
- Visual inspection only (manometer readout):** Annual

Approvals	Approval Number	Duration
MSHA/NIOSH	TC-13F-269	10 min
CE	EN 400 and EN13794 (2002)	10 min
South Africa	GME/14/6 14/5	24 min
Australia	MDA BA 2804	18 min

Product description

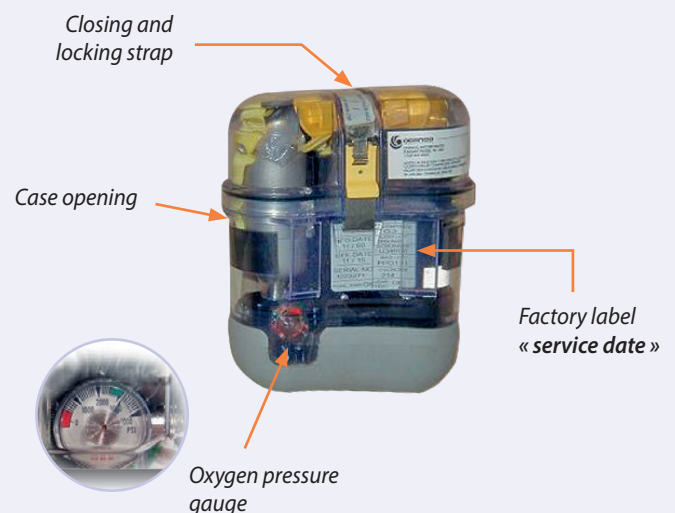
The **M20-2** is the world smallest self-contained evacuation device. Compact, lightweight and with an ergonomic design, it can be comfortably belt worn or stored in a wall bracket. It instantly provides breathable air that is independent of the surrounding atmosphere, to a person escaping from toxic gas, particles or oxygen deficient atmosphere - up to 32 minutes of protection.

The **M20-2** can be donned in seconds; simply unlatch the case, pull out the unit, and insert the mouthpiece and nose clip.

The **M20-2** has been engineered for maximum safety. That's why users can quickly check the oxygen level through the transparent housing. Moreover, this device features a 15-year shelf life and only requires visual inspection. It is ideal for use in mines, tunnels, confined spaces and chemical plants.

Operating principle

Oxygen automatically flows when the device is pulled out from its housing. It is then breathed by the user through a mouthpiece from the breathing bag (or lung). Expired air goes through a lithium hydroxide scrubber that removes CO₂. Refined air is then injected back into the breathing bag to get re-oxygenated to be breathed once again.



► Oxy 3000 / 6000

Oxygen self-rescuer with mouthpiece



Operating principle

The **Oxy 3000** (30 minutes autonomy) and **Oxy 6000** (60 minutes autonomy) are oxygen self-rescuers (KO₂ cartridge) with a mouthpiece. In case of oxygen deficiency, smoke or dangerous gas presence, these devices provide to their users more time to reach the closest safe area or complete a successful escape.

The metal/plastic exterior shell with an integrated internal shock absorber protects the KO₂ cartridge against damage in harsh environments encountered in mining, sewage work and within the petrochemical industry.

Thanks to their robust construction, the **Oxy 3000** and the **Oxy 6000** can be used maintenance-free for up to ten years. The quick, uncomplicated visual inspection of the exterior shell and the Safety Eye provide certainty about the functionality of the device.

Additional advantages

- Compact, ergonomic shape
- Opening mechanism activated with one-hand operation for right-handed or left-handed users
- Immediate activation when the device is worn
- Optional rubber abrasion protection
- Anti-static breathing bag
- Training device available upon request

Technical specifications

► Oxy 3000/6000

Temperature:

Maximum +50 °C (122 °F) in accordance with DIN EN 13794

Relative humidity: up to 100%

Breathing bag volume: > 8 liters

Service life: 10 years

► Oxy 3000

Duration: 30 min (35 L/min breathing minute volume)

Inhalation/exhalation resistance:

+10 hPa or -10 hPa (maximum exhalation resistance)

Weight: without options 2.6 kg / in use 1.7 kg

Dimensions:

• 219 x 190 x 109 mm (without options)

• 230 x 194 x 122 mm (with support ring & abrasion protection)

Certifications:

Compliance with SA 89/686/CEE DIN EN 13794

Approved for Australian coal mines

► Oxy 6000

Duration: 60 min (35 L/min breathing minute volume)

Inhalation/exhalation resistance:

+7.5 hPa or -7.5 hPa (maximum exhalation resistance)

Weight: without options 3.4 kg / in use 2.4 kg

Dimensions:

• 246 x 213 x 125 mm (without options)

• 265 x 217 x 125 mm (with support ring & abrasion protection)

Certifications:

Compliance with SA 89/686/CEE DIN EN 13794

Approved for Australian coal mines



▶ EBA 6.5

High autonomy self-rescuer mask

High 90 minutes
autonomy



Technical specifications

Certifications / Certification Numbers / Certified Duration:

MSHA/NIOSH: TC-13F-104 = 60 minutes

Republic of South Africa (*applicable standard*):

AZ 2009/ 02 SANS 53794: 2007 = 90 minutes

Australia (*applicable standard*):

SMKH21694 AS/NZS 1716:2003 = 90 minutes

CE CE 0194/EN 13794:2002 = 90 minutes

Performance duration: 110 minutes

Rest duration: 8 hours

Time to don/activate: 15 seconds, or less

Total weight:

9.2 lbs (4.17 kg) with aluminum cylinder

8.2 lbs (3.72 kg) with composite cylinder

Donned weight:

8.0 lbs (3.63 kg) with aluminum cylinder

7.0 lbs (3.17 kg) with composite cylinder

Dimensions: 8.5" x 11.8" x 4.5" (21.6 cm x 30 cm x 11.4 cm)

Storage temperature range: 10° F to 140° F (-12° C to 60° C)

Liters of available oxygen: 157

Repair/refurbish after use: Yes

NIOSH service life: 15 Years

Oxygen delivery system:

Compressed oxygen - On/off valve

Constant flow/demand regulated

Cylinder pressure 3000 psi (207 Bars)

CO2 Scrubbing material: Lithium hydroxide

Inspection: Visual

Product description

The **EBA 6.5** uses compressed oxygen as a source rather than generating oxygen from chemicals. The oxygen level indicated on the gauge is always visible for inspection through the clear, tamper-proof sealed case. The apparatus can be refurbished for a service life of up to 15 years and provides a lower cost per year of service than any other unit.

Oxygen from the breathing bag is inhaled through the inhalation tube and the mouthpiece. Breathed air is exhaled through the mouthpiece into the CO2 scrubber. The air enters the breathing bag and is mixed with oxygen from the oxygen cylinder via the demand regulator.

The **EBA 6.5** is a highly reliable breathing apparatus tested in life-threatening situations throughout the world. It provides over 90 minutes of oxygen to its user during a typical mine escape - up to 8 hours of oxygen at rest - a performance that exceeds all MSHA and NIOSH standards. (*Oxygen delivery ranges from 1.5 l/min constant flow up to 100 L/min demand flow.*)

▶ The EBA 6.5 assets

Long-lasting – over 90 minutes of oxygen in demand mode; up to eight hours in conservation mode.

Easy to operate – turning the valve on activates the system; turning it off allows oxygen conservation.

Quick to don – can be put on and be fully operational in 15 seconds or less

Lightweight – donned weight 4.17 kg and compact - 21.6 cm x 30 cm x 11.4 cm

Easy to inspect – simple visual inspection confirms that unit is ready to use



► Saver CF

Compressed air emergency escape breathing apparatus



Technical specifications

Dimensions (L x H x D): 260 x 510 x 190 mm

Cylinder operating pressure: 200 bar

Airflow to the hood: 35 to 37 L/min

Operating temperature range: -15°C to +60°C

Certifications:

- NF EN1146: 2005, ISO 23269-1:2008
- ISO 23269-4:2011, SOLAS chapter II-2, directive MED and directive on pressure equipment.
- Rigid fairings and antistatic soft bags are also compliant with requirements for operating in explosive atmosphere (ATEX zone 0).
- NF EN1146 (2005), ISO 23269-1:2008

CF10 soft bag version:

- Autonomy: 10 minutes
- Cylinder: 2 liters / 200 bar made of aluminum
- Weight: 4.2 kg

CF15 soft bag version:

- Autonomy: 15 minutes
- Cylinder: 2 liters / 300 bar made of aluminum
- Weight: 5.2 kg

Saver CF soft hood version codification (contact us for rigid bag version)

Designation	Reference
Saver CF10 standard version (orange)	33 59 734
Saver CF15 standard version (orange)	33 59 735
Saver CF10 antistatic version (black)	33 59 736
Saver CF15 antistatic version (black)	33 59 737
Wall-mounted storage box	33 51 823

Product description

The **Saver CF** constant flow self-contained breathing apparatus has been especially designed for emergency escape from hazardous industrial or marine environments. Easy to don and automatic, this hooded device includes a constant flow breathing unit. Only a light training is required for use.

► **10 or 15 minutes autonomy**

This device features an integrated safety reducer with outstanding properties offering constant flow until the cylinder is empty. An alarm whistle alerts users in case of low capacity. It can be equipped with cylinders providing 10 or 15 minutes of air and is combined to a flameproof hood with a large field of view.

► **Standard or antistatic version for ATEX zone**

Available either with a soft bag or a rigid fairing, the **Saver CF** can easily be installed on a wall or any strategic location in hazardous areas. Black antistatic or orange bags feature photo-luminescent signs and reflective strips to improve visibility even under low light conditions.

► **A hood that fits any morphology**

The **Saver CF** is a very compact and lightweight breathing apparatus that can be worn on the shoulder or with a strap. It has been designed to suit people with glasses or beards and the hood provides excellent visibility. Once opened, it automatically activates and ensures a continuous breathing air supply to safely leave the hazardous area.

► **Compliance with current standards**

The Saver CF is compliant with the NF EN 1146 (2005) standard and meets fire requirements from the Lloyd's Register. It is also compliant with the SOLAS chapter II-2 certification requirements, the Directive on marine equipment, the Directive on under pressure equipment and the ISO 23269-1:2008 standard. Antistatic versions are also compliant with explosive atmosphere requirements (zone 0).

► **Low maintenance and high protection**

The **Saver CF** requires no particular maintenance. A transparent window on the soft bag or fairing lets you check the cylinder pressure gauge easily without unpacking the unit.



▶ **Bodyguard® 1000**

Personal Alert Safety System (PASS)



Technical specifications

Designed to protect life by alerting the team when its user becomes motionless or is in distress, the **Bodyguard® 1000** emits clear and distinctive signals and alarms to ensure quick and effective recognition, even in the worst conditions.

Weight: 230 g (with batteries)

Dimensions: H x W x D 100 x 70 x 40 mm

Upper frequency: 2900 (± 200) Hz

Alarm: 102 – 112 LAeq, 30s dBA

Pre-Alarm: 86 – 102 LAeq, 6s dBA

Battery: CR123 Panasonic Lithium (2 batteries)

Operating time:

At least 12 months normal use

Certifications:

EN 137:2006 Type 2; BS 10999:2010; ATEX I1M / II1GD Ex ia I / IIC T4



Operating principle

▶ Simple to use and easy maintenance

The **Bodyguard® 1000** is free of periodic maintenance, with only battery replacement to plan when required. Thanks to its easy-to-use functionality, the **Bodyguard® 1000** features a straightforward push button functionality to ensure simple operation, even whilst wearing gloves. The unit will perform an automatic full "self check" upon start up. Accidental switch off during use is eliminated by the options of a tally key insertion or two-button push, depending on the operating mode.

▶ Compatible with all SCBAs

With optional alligator clip or securing clamp, the **Bodyguard® 1000** can be quickly and securely fitted to any SCBA, in any position, whether at the shoulder, waist or on a backplate.

▶ New high profile audible and visual alarms

After a nominal 25 seconds without motion and a further 8 seconds without cancellation, the **Bodyguard® 1000** will emit a directional full alarm to assist the fast location of its user in distress. Motion sensor timing can be configured according to preference using the RFID PC Link Module and a PC. In addition the high visibility twin fascia LEDs enable location in conditions of poor visibility. Continuous low frequency flashing blue lights allow easy location of team members during normal activities, and allow team members to remain visible to one another.

▶ Data logging of incident history

The **Bodyguard® 1000** comes with full data log functionality allowing the downloading of incident history using RFID PC Link Module and a Windows based Software Package.

▶ Choice of operating modes

The device comes with a choice of operating modes, with either button operation or tally key operation for management of control applications.

▶ Temperature control during operation

The **Bodyguard® 1000** is equipped with a thermal alarm that is triggered when the ambient temperature rises rapidly or exceeds safe working levels, making it unsafe for the user to remain in that environment.

► Blackline G7c

Geolocation-based personal alert safety system (PASS)



Technical specifications

G7 basic functions

- Fall detection and motionless detection: Tri-axis accelerometer and gyro, configurable sensitivity, configurable time window for no-motion detection
- Emergency latch: Pull latch to trigger
- Silent emergency: Press and hold latch to trigger
- Low-battery: configurable threshold
- Worker check-in: Configurable timer (30–180 min, or off), automatic check-in when driving

Dimensions: 64 mm x 124 mm x 27 mm / 162 g / IP67

Blackline Live Application Web

The cloud-hosted safety monitoring web application is highly customizable for every customer requirement. Includes live map, employee address book, user roles, alert management, device configurations, alert setups and reporting.

User interface: Large backlit LCD display, menu system driven by a three-button keypad, power button, check-in button and emergency latch (send emergency alert)

Alarm: audible (95 dB @ 30 cm), LED and vibrating

Voice calling: integrated speakerphone and phone

G7c Wireless Radio : Coverage: 100 countries, 200 operators

G7c location update frequency : 5 min

Battery life : 18 hours continuous use at 20° C

Charging time : 4 hours

Certifications :

- SAR, RoHS, CE, RCM
- FCC ID XPY1CGM5NNN-IC ID : 8595A-1CGM5NNN
- Canada and USA: Class I Division 1 Gr A, B, C, D T4; Class I Zone 0 AEx da ia IIC T4; Ex da ia IIC T4 Ga
- IECEx: Ex da ia IIC T4 Ga
- ATEX: Ex da ia IIC T4 Ga II 1 G
- LEL: CSA C22.2 No. 152; ISA 12.13.01

Product description

The G7c is the only ATEX zone 0 portable device that offers: a full PASS with geolocation (motionless, fall, panic button), a permanent link with an operation for verification and assistance. In addition to these functions, the G7c can be used as a walkie-talkie.

► A real-time alert unit

The G7c can be configured to detect incidents while they occur and emit a distress signal to reach in real-time supervisory staff that will be able to take emergency actions. Real-time alerts include the manual emergency latch and the automatic fall, motionless or check-in failure detection.

► A solution to meet any need

Based on the same principle than telephony, the Blackline G7c operates with a subscription from 1 up to 5 years with a whole range of services to suit in any need:

- Standard geolocation-based PASS (+/- 5 meters)
- Walkie-talkie function on IP
- Internal monitoring (internal alarm management)
- External monitoring (alarm management performed by the Blackline operation center operating 24/7)

► A 24/7 in-house safety operation center

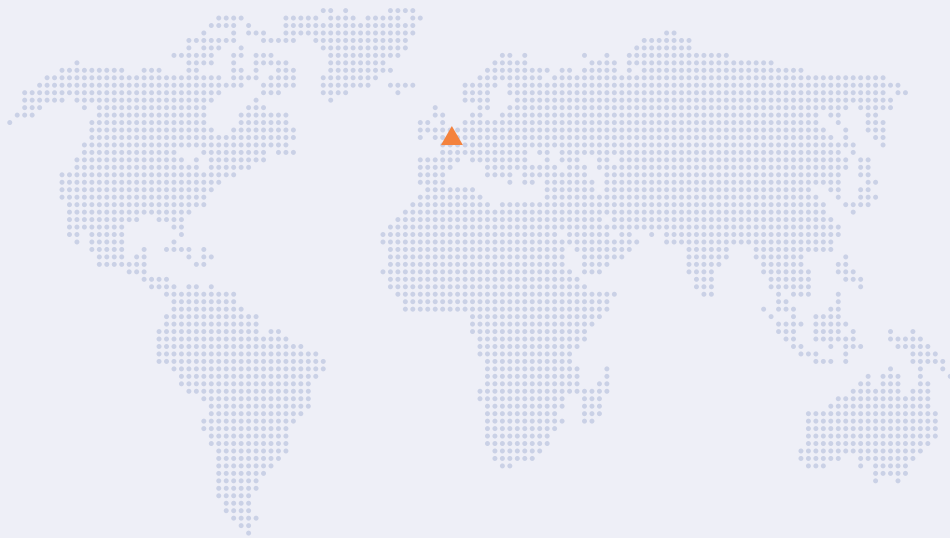
Offering professional monitoring and safety services and emergency management for teams on the field, the Blackline in-house safety operation center operates 24/7. Their people are trained to manage any alert in real-time upon reception of the alert event up to its resolution, following suitable emergency response protocols.

► Bidirectionnal voice calls

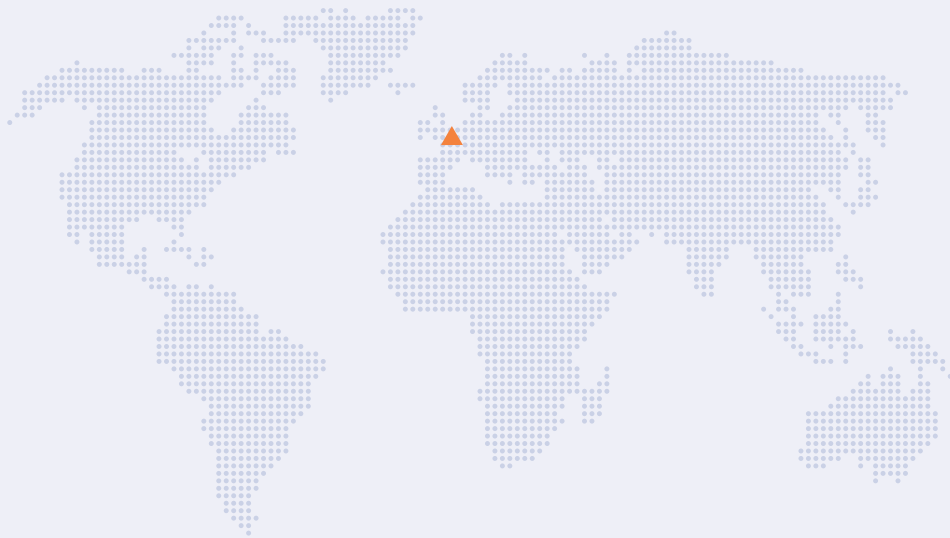
Upon reception of an alarm, the Blackline operation center calls the G7c in order to confirm or infirm the alarm.

► PTT button (Push To Talk)

The G7c features the PTT function (« push-to-talk »). This PTT button enables users to use the G7c as a walkie-talkie: G7c unit users in the same organization and on the same channel can talk to each other in real-time.



▶ Visit our websites: www.gazdetect.com
Online store: www.safetygas.com



▶ Visit our websites: www.gazdetect.com
Online store: www.safetygas.com



▶ Visit our websites: www.gazdetect.com
Online store: www.safetygas.com