



## Dräger Respiratory Protection





ST-3626-2004



ST-16421-2008



D-20094-2009

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# Skills and experience are what make the difference.



ST-13389-2009

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### EMPLOYEE EXPOSURE

Protecting employees from hazards like dust, gas and vapors in the work environment is a high priority for all health and safety professionals. Dräger's extensive respiratory program includes air purifying respirators from the Dräger X-plore 1300 filtering facepiece respirator and Dräger X-plore® 2100 reusable half mask; through to a full range of Dräger X-plore half mask and full face respirators with cartridges to meet a wide range of working conditions.

### INDUSTRIAL RESPIRATORY PROTECTION

In some industrial working applications, higher-level exposure hazards cannot be avoided. The ability to provide protection to these workers is a high priority for health and safety professionals. Dräger offers a range of supplied air respirators and SCBAs. The Dräger PAS Colt and PAS Micro respirators and Dräger ProAir® SCBA lead the way for protecting the workers in hazardous environments.

### CONFINED SPACE ENTRY

Special laws have been enacted to deal with one of the most dangerous environments in today's work place. Confined spaces are found in every type of industry, from utilities to agriculture, from food processing to petrochemical and from aerospace to mining. Because these areas must be entered on a routine basis, Dräger's Airline Supply Systems, Airline Egress Respirator Systems and QuickAir™ Emergency Escape Breathing Apparatus play an important role in protecting workers to ensure that a confined space is a safe place to enter and work.

### FIREFIGHTING

Being in one of the most demanding, challenging and dangerous professions, fire fighters require the highest levels of personal protection. Dräger's SCBA is designed for Firefighting, HazMat and Search and Rescue applications. With the most up to date self-contained breathing apparatus systems available, Dräger's PSS 7000, AirBoss® Evolution, and BG 4 SCBAs are answering the call.

### EMERGENCY ESCAPE

Normally safe areas can become hazardous when an accident occurs. People working in these areas need a quick and easy to use respirator to escape from possible dangers and reach a safe area. Dräger provides supplied air (QuickAir™) and oxygen generating (Oxy K Plus) escape devices that allow you to breathe safely while getting out of harms way.

### DOMESTIC PREPAREDNESS

In today's environment we need to be aware, and in some cases prepared against possible terrorist attack. Dräger's provides a full range of respiratory protection no matter what is your assigned mission. The Dräger DefendAir® filter escape hoods, the Dräger CDR 4500 CBRN approved, the added protection of the Dräger C420 PAPR, the highest level protection Dräger AirBoss® SCBA, and BG 4 closed circuit breathing apparatus for extended operations all meet the challenge of today's first responders.



## DRÄGER X-PLORE®

Dräger offers a full range of purifying respirators under the X-plore® series name. Dräger worked with industrial users throughout the world to develop a better respiratory protection product for use in your everyday workplace. Our goal was to develop a line of products that fit the faces of the world and excels in comfort. The results are dramatic.

Experience extreme comfort with the Dräger X-plore® 3500 reusable half mask cartridge respirator. The specially developed Dräger-Flex® mask material is hypo-allergenic, giving you a soft and comfortable seal without skin irritation. The Flexi-Fit® harness system is extremely comfortable when wearing head protection and will fit underneath a hard hat. An innovative X-guided strap system ensures an even distribution of the mask seal against the face giving you the ultimate comfort without unwanted pressure.

The exclusive triple sealing edge found on the Dräger X-plore® 5500 full-face mask means that there are actually three sizes in this one mask. It makes selection and use of a respirator much easier since anyone can wear the same size mask. The compact low-profile design ensures a wide, unobstructed view.

The twin cartridges are connected to the mask in a position that allows the greatest range of vision and user comfort without interfering with head movements. To meet a wide range of industrial applications, Dräger offers a full line of NIOSH approved cartridges and filters with an exclusive two-point bayonet connector.

The Dräger X-plore® 3300 is an economical alternative to the Dräger X-plore® 3500 half mask respirator. It combines all of the features of the Dräger X-plore® 3500 while constructed of a soft and durable thermo-plastic elastomer (TPE) that provides a comfortable and secure seal for your respiratory protection.

### DRÄGER X-PLORE® 3500 FEATURES

- Flexible Nose Seal
- New Dräger Flex Material
- Compact low-profile design
- 3 sizes (S, M, L)
- Dräger Flexi-Fit® Head Harness
- "Slide-down" System
- Innovative guided strap system
- Safe and easy bayonet connection
- Very few parts = ease of maintenance



ST-6820-2006

X-plore® 3300



ST-6821-2006

X-plore® 3500



ST-491-2007

X-plore® 5500



## ORDER INFORMATION

### Economical Half Mask

X-plore® 3300, small	R 55 331
X-plore® 3300, medium	R 55 330
X-plore® 3300, large	R 55 332

### Premium Half Mask

X-plore® 3500, small	R 55 351
X-plore® 3500, medium	R 55 350
X-plore® 3500, large	R 55 352

### Full Face Mask

X-plore® 5500, three sizes in one	R 55 270
X-plore® 5500 with stainless steel lens frame and Triplex glass lens	R 56 655

### Filters

P100 Cartridge	67 38 012
N95 Filter Pads	67 38 020
R95 Filter Pads	67 38 021
Filter Pad Holder, Base	67 38 039
Filter Pad Holder, Cover	67 38 038
X-plore® Pure P100 low profile	67 38 350
X-plore® Pure P100 Odor (against nuisance level OV/AG)	67 38 392
Adapter for attaching Pure filters to gas cartridges	67 38 356
Course particulate filter for combination cartridge	67 38 159
Course particulate pre-filter retainer	67 37 576

### Gas and Vapor Cartridges

Organic Vapors (OV)	67 38 024
Organic Vapor/Acid Gases (OV/(HC/CL/SD)/FM/CD/HF)	67 38 025
Acid Gases (HC/CL/SD)	67 38 026
Ammonia/Methylamine (AM/MA)	67 38 027
Multi-Gas+ (OV/HC/CL/SD/FM/CD/HF/AM/MA/HS)	67 38 351

### Combination Cartridges

Organic Vapors (OV)/P100	67 38 034
Organic Vapor/Acid Gases (OV/(HC/CL/SD)/FM/CD/HF)/P100	67 38 035
Acid Gases (HC/CL/SD)/P100	67 38 036
Ammonia/Methylamine (AM/MA)/P100	67 38 037
Multi-Gas+/P100 (OV/HC/CL/SD/FM/CD/HF/AM/MA/HS/P100)	67 38 361
European Approved (EN) Cartridge (not NIOSH), A1B1E1K1 (see guide on page 10)	67 38 007





## DRÄGER X-PLORE® 1300

The Dräger X-Plore® 1300 – Developed on the basis of market demands and customer requirements – sets new standards on comfort levels for filtering facepiece respirators. The result: an extremely comfortable, pre-formed dust mask for protection against solid and liquid particles. Its efficient filter material and ergonomic design make the Dräger X-Plore® 1300 a disposable dust mask with maximum comfort, safety and user acceptance.

### DRÄGER X-PLORE® 1300 BENEFITS:

- High level of wearer comfort through ergonomic shape and advanced filter media.
- Safety according to your needs – a color coded selection of protection levels and design variations, makes it easy to distinguish between protection classes.
- Ergonomic design allows the mask to fit well with safety glasses and goggles. A special seal in the area of the nose helps prevent fogging.
- Versions with an integrated Odor Control layer keep nuisance OV odors out.
- Integrated strap tension adjuster to allow the wearer to fine tune the mask to the proper comfort.
- A sure fit, for the most demanding conditions - the Dräger X-plore® 1300 is available in two sizes (S/M and M/L).



### ORDERING INFORMATION

Protection class	Size	Pcs./box	Order No.
Dräger X-plore® 1350 N95	S/M	20	39 51 220
Dräger X-plore® 1350 N95	M/L	20	39 51 230
Dräger X-plore® 1350 N95 V	M/L	10	39 51 221
Dräger X-plore® 1350 N95 V	M/L	10	39 51 231
Dräger X-plore® 1360 R95	S/M	20	39 51 225
Dräger X-plore® 1360 R95	M/L	20	39 51 235
Dräger X-plore® 1360 R95 V	S/M	10	39 51 226
Dräger X-plore® 1360 R95 V	M/L	10	39 51 236
Dräger X-plore® 1350 N95 V OV Odor <sup>1</sup>	S/M	10	39 51 222
Dräger X-plore® 1350 N95 V OV Odor <sup>1</sup>	M/L	10	39 51 232

<sup>1</sup> Additionally against nuisance odors below permissible exposure limit (PEL).





**Take a deep breath.  
The ideal combination:  
safety and comfort.**

## DRÄGER X-PLORE® 1700

Breathe easier and work safely. The Dräger X-plore® 1700 series was developed in cooperation with users for the specific requirements in the areas of industry, specialized trades and services. It sets new standards for comfort and use, performance and protection, along with modern design.

Dräger X-plore® 1700 is the new generation of particle filtering face pieces. With its CoolSAFE™ filter material it offers effective protection against fine dust, as well as solid and liquid particles. The Dräger X-plore® 1700 series offers a wide variety of different masks to meet the needs of different application areas. Users can choose between two NIOSH protection classes: N95 and R95 which are optionally available with the CoolMAX™ exhalation valve for

additional comfort. The CoolMAX™ exhalation valve was engineered to optimally guide the exhalation airflow away from the mask. Odor stopping versions, containing an activated carbon layer are ideal for users which battle with unpleasant nuisance odors. All versions are NIOSH approved.

### FEATURES:

- CoolSAFE™ filter material
- Secure Seal
- Flexible nose clip
- Soft inner layer
- Space saving folded form for easy transport
- Hygienic individual packaging
- Optional CoolMAX™ exhalation valve

STI-94493-2007



Dräger X-plore® 1750 N95

## TECHNICAL DATA

Filter material	CoolSAFE™ for protection against solid and liquid non-volatile particles
Odor versions	With additional activated carbon layer against nuisance organic odors below the limit value
Approvals	<b>NIOSH</b>
N95	TC-84A-4396
N95 with valve	TC-84A-4557
R95	TC-84A-4556
N95 Odor	TC-84A-4555

## ORDERING INFORMATION

Dräger X-plore® 1700	Rating	Pcs./box	Order No.
Dräger X-plore® 1750	N95	20	39 51 320
Dräger X-plore® 1750 V	N95	15	39 51 321
Dräger X-plore® 1750 V Odor <sup>1</sup>	N95	15	39 51 322
Dräger X-plore® 1760 V	R95	15	39 51 326

<sup>1</sup>Additionally against nuisance odors below permissible exposure limits (PEL).



## DRÄGER X-PLORE® 2100

The Dräger X-Plore® 2100 combines the protection and comfort of conventional half masks with the low cost of disposable respirators.

Better protection is afforded through the soft silicone or durable EPDM mask body providing a more effective facial seal when compared to a disposable mask, especially around the nose. The Dräger X-plore® 2100 provides a better facial seal when talking, making it ideal when clear communication is essential.

Donning and doffing the mask as well as filter replacement is quick and easy. The ergonomic non-slip head harness ensures a good fit, while the elastic straps with an integrated neck hook are easy to open and close, and allow precise adjustment of the mask. The mask can also be removed without the need to take off a safety helmet ("drop-down" strap system).

The P100 or R95 filters feature an enlarged surface with more filtering capability than the conventional disposable filtering face-

masks or filter pads. This also drastically reduces inhalation resistance. A standard exhalation valve in the mask body further reduces breathing resistance and heat build up making the Dräger X-plore® 2100 very comfortable.

The Dräger X-plore® 2100 is very economical because the larger filter media lasts longer. Unlike disposable filtering facemasks, which a worker will use several per day, the Dräger X-plore® 2100 will provide a longer duration of protection and reduce filter costs. The larger filter area allows the Dräger X-plore® 2100 to be used in very dusty environments for a longer period of time.

The Dräger X-plore® 2100 is NIOSH approved with filters that offer P100 and R95 protection levels against dusts, mists and other airborne particles or aerosols.



ST-1762-2005

Dräger X-plore® 2100 Silicone



ST-1114-2005

Dräger X-plore® 2100 EPDM



ST-398-2003

Particle Filter

### ORDER INFORMATION

X-plore® 2100, Silicone, size M/L with (5) P100 Filters	R 55 915
X-plore® 2100, EPDM, universal size with (5) P100 Filters	R 55 910
X-plore® 2100, Silicone (mask only) size S/M	R 55 883
X-plore® 2100, Silicone (mask only) size M/L	R 55 882
X-plore® 2100, EPDM (mask only) universal size	R 55 881

### Replacement Filters

P100 Filters only, pack of 25	67 36 777
R95 Filters only, pack of 25	67 37 352

## Single Cartridge System – X-plore® 6000 Series



### DRÄGER X-PLORE® 6000 SERIES

Dräger's exclusive triple sealing edge means that there are actually three sizes in one mask; therefore, one mask will fit most all users. The centrally located filter allows a wide range of head movement and does not restrict peripheral vision. Users maintain over 90% of their normal vision without distortion. A speaking diaphragm provides clear communications with others.

The Dräger X-plore® 6000 series masks provide optimum protection and comfort with low maintenance.

#### EN Canister Guide Color Coding

- AX ■ Organic vapors w/ boiling point <65° C
- A ■ Organic vapors w/ boiling point >65° C
- B ■ Acid gases (e.g. CL, H<sub>2</sub>S, HCN)
- E ■ Sulfur dioxide, HCL
- K ■ Ammonia
- CO ■ Carbon monoxide
- Hg ■ Mercury
- NO ■ Nitrous gases
- P  Particulates

### DRÄGER X-PLORE® 6000 SERIES ORDER INFORMATION

Dräger X-plore® 6300, EPDM Plexiglass lens with integrated bar code, blue plastic lens frame, and glass filled nylon speech diaphragm	R 55 800
Dräger X-plore® 6530, EPDM Polycarbonate lens with integrated bar code, blue plastic lens frame, stainless steel speech diaphragm and neck strap.	R 55 795
Dräger X-plore® 6530 SS, EPDM Polycarbonate lens, stainless steel lens frame, stainless steel speech diaphragm and neck strap	R 51 525
Dräger X-plore® 6570, Blue Silicone Polycarbonate lens with integrated bar code, black plastic lens frame, and stainless steel speech diaphragm	R 55 790
Dräger X-plore® 6570 SS, Yellow Silicone Polycarbonate lens with integrated bar code, stainless steel lens frame, stainless steel speech diaphragm and neck strap	R 51 535

See below for available filters. See page 13 for mask accessories.

The standard thread connection accepts NATO NBC (Nuclear, Biological, Chemical) cartridges as well as Dräger NIOSH approved single cartridges and our European approved canisters.

### ORDER INFORMATION

#### NIOSH Approved

P100 Cartridge (Box of 8)	67 37 013
Phosphine/Tear Gas/P100	67 37 360

#### Miscellaneous European Approved (EN) Canisters (see guide to the left)

NBC Escape (A2 B2-P3)	67 35 896
A2B2	67 29 182
A2B2E2K2 Hg P3	67 35 470
A1B2E2K1 Hg/CO/NO-P3	67 35 812
A2B2E2K2	67 35 902
AX - P3	67 35 903
B2CO-P3	67 35 907



# Outstanding Comfort in respiratory protection.



## Dräger Law Enforcement and Military Masks

### DRÄGER CDR 4500 FULL FACE MASK

The Dräger CDR 4500 full-face mask offers complete protection of the respiratory organs and face from harmful gases and particles in the ambient air. The elastomer mask body is extremely resistant to chemicals and mechanical impact. The emergency response teams appreciate its simple handling, outstanding comfort and excellent fit for a wide range of head and face sizes. A neck strap is supplied as standard.

The Dräger CDR 4500 full-face mask was specifically designed for use in civil defense and civil protection. When combined with our Cap 1 canister they provide proven protection from a wide variety of potentially hazardous CBRN situations. Dräger's exclusive triple sealing edge means that there are actually three sizes in one mask, thus reducing your logistics and inventory. The centrally located filter allows a wide range of head movement and does not restrict peripheral vision.

Dräger's Cap 1 CBRN Canister offers one of the longest available shelf-life of any canister on the market (minimum 10 years). Along with its lightweight and small size, this canister is sure to suit your requirements.

### DRÄGER M2000 MILITARY MASK

The Dräger M2000 military mask was specifically designed for maximum protection under long duration use. A 6-point textile head harness evenly distributes support to keep mask tight and integrated drink device allows the user to take in fluids without removing the mask. Two types of filters can be used: a standard NATO threaded canister or a specifically developed plug-in style (F2000). The F2000 is centrally mounted for even weight distribution and can be rotated to accommodate left or right handed shooters. The Dräger M2000 mask sets new standards in wearer comfort and application flexibility.

**ORDER INFORMATION**

**NIOSH CBRN Approved - Dräger CDR 4500 Full Face Mask**

Universal size, three sizes in one, EPDM mask body, black plastic lens frame, polycarbonate lens, neck strap, stainless steel speech diaphragm	R 55 440
CDR 4500 same as above, but with black stainless steel lens frame	
Small	R 55 575
Medium	R 55 710
Large	R 55 580

CAP1 Canister (CBRN approved with CDR 4500)	67 38 146
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See additional accessories on page 13.

**Dräger M2000**

Green butyl mask body, integrated hydration tube, hard coated polycarbonate twin visors, Captone® speech diaphragm, 6-point adjustable head harness approved to EN 136 (European standard)

Small	R 55 825
Medium	R 55 820
Large	R 55 830

**Dräger Defense Filters**

Cap 1 canister (CBRN approved with CDR 4500)	67 38 146
NBC Escape (EN approved)	67 35 896
F2000 NBC canister, plug-in for M2000	67 38 010

See additional accessories on page 13.



ST-1278-2004

Dräger CDR 4500 full-face mask



ST-514-2007

Dräger CBRN Cap 1 Canister



ST-4735-2004

Dräger M2000 full-face mask



ST-9283-2007

Dräger F2000 Canister

## Dräger Accessories



Dräger offers a variety of mask and filter carrying bags

ST-519-2007



Dräger's Spectacle Kit



Dräger's FitTester

ST19396-2008

### DRÄGER MASK ACCESSORIES ORDER INFORMATION

#### Dräger Cleaners/Disinfectants

Alcohol Free Wipes, box of 100	40 53 845
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#### Anti-fog Solutions, Alcohol Free

Liquid Gel 50 ml	R 52 560
Spray 100 ml	R 21 120

#### Carrying Bags

Half Mask Carry Bag	40 55 649
Full Face Tactical Mask Bag	40 56 997
Full Face Bag, Yellow Nylon with Belt Loops	40 53 847
Full Face Bag, Blue Nylon with Draw String	40 55 785
Full Face Case, Hard Plastic for Panorama	R 51 019

#### Accessories for the X-plore® 5500, X-plore® 6000 series, CDR 4500

Spectacle Kit, Standard Mount	R 51 548
Spectacle Kit Altec	40 56 406
Lens Overlay Protectors, clear, 25 per package	40 55 092
Welding Shield for full face mask with stainless steel lens frame, (does not fit S or L P-masks) accepts standard 4.5" x 5.25" glass	40 53 437
Hair Net Head Harness for X-plore® 6000 series	40 57 519

#### Qualitative Fit Testing

Bitrex™ Qualitative Fit Test Kit, includes (6) ampules	40 55 625
Bitrex™ Fit Test Solution, includes (6) ampules	40 55 624
Bitrex™ Sensitivity Solution, includes (6) ampules	40 55 623
Fit Test Hood, replacement	40 55 650
Irritant Smoke Fit Test Kit, includes (6) tubes	40 53 844
Irritant Smoke Tubes only, (6) tubes	40 54 811

#### Fit Test Adapters QNFT - Porta Count

Positive Pressure and 40 mm Masks	40 56 315
X-plore® Twin Filter Masks	67 38 044
X-plore® 2100 Porta Count	40 55 655
P100 Filters, 40 mm, single for Fit Testing	40 55 497

#### Fit Test Adapters QNFT - Fit Tester 3000

40 mm Threaded Masks	40 56 718
X-plore® Twin Filter Masks	40 57 023
Positive Pressure Masks	40 56 719
BG 4 Masks	40 56 767





## Dräger C420 Powered Air Purifying Respirator (PAPR)

The Dräger C420 is a high-performance PAPR designed for use by law enforcement, emergency responders, and military personnel on domestic preparedness missions. The Dräger C420 is now approved with the Dräger Panorama Nova Mask.

The Dräger C420 utilizes standard NIOSH approved combination cartridges that are designed to provide protection against nuclear, biological, and chemical warfare agents (NBC) as well as toxic industrial chemicals (TICs).

A PAPR provides a constant flow of filtered air to the users face piece thus providing a higher safety factor due to a positive pressure in the mask. The airflow greatly reduces breathing effort making the PAPR more comfortable to wear, especially during strenuous work conditions. Additional benefits include less fogging of the lens and more comfort due to the cooling effect of the airflow.

Unlike many industrial PAPRs, the Dräger C420 is airtight and waterproof and may be fully submerged for decontamination. In addition, the batteries can may be “hot swapped” during use in a warn zone environment. The battery compartment is also watertight and can be decontaminated.

The Dräger C420 system is a powerful and very lightweight PAPR. The added comfort and protection makes it ideal for in the demanding and extended duration operations. NBC filter cartridge is also NIOSH approved for use directly on the masks listed below as a full face air purifying respirator (APR).

### DRÄGER X-PLORE 2100 ORDER INFORMATION

Dräger C420 PAPR System without cartridges or mask	40 57 038
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#### Masks Available

CDR 4500	R 55 440
Panorama Nova EPDM	R 51 525
Panorama Nova Silicone	R 51 535

Battery Pack, LiSO <sub>2</sub>	40 56 917
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Rechargeable Batteries and Chargers Available





## Protection in a matter of seconds.

### DRÄGER DEFENDAIR®

The Dräger DefendAIR® is ideal for emergency response professionals like police, emergency medical, and hospital staff as well as others who support such operations or ordinary civilians. The Dräger DefendAIR® is NIOSH approved for riot control agents (tear gas, CS & CN) and particle removal efficiency (P100), as well as independently tested to be effective against chemical warfare agents.

The Dräger DefendAIR® utilizes a combination canister. It provides a minimum of 30 minutes or more of protection against chemical warfare agents (Sarin, mustard, etc.), toxic industrial chemicals (organic vapors, chlorine, phosphine, etc.), biological warfare agents (anthrax, etc.) and nuclear (radio-nuclides). Easy to don, the DefendAIR® can be deployed in a matter of seconds.

The inner mask provides a seal around the nose and mouth offering better protection to the user. In combination with the chemically resistant Tyvek F® hood material, the Dräger DefendAIR® provides respiratory, eye, and skin protection to the user.

In today's political climate, anyone has the possibility of encountering chemical warfare agents. The US Department Homeland Security encourages all citizens to be prepared for the possibility of a terrorist threat. The Dräger DefendAIR® is one part in preparing a personal defense system. It is maintenance free and has a five-year shelf life making it ideal for your personal safety.



Dräger DefendAIR®  
Packaging

ST-465-2003



Dräger DefendAIR®  
Personal defense hood

ST-465-2003

### DRÄGER DEFENDAIR® ORDER INFORMATION

Dräger DefendAIR®, NBC Escape Hood	R 54 838
Dräger DefendAIR®, Training Unit	R 55 195
Carrying Bag, Dräger DefendAir®	40 56 748
Dräger DefendAir® Training Video, VHS	40 56 941
Dräger DefendAir® Training Video, CD	40 56 942

## Dräger Parat C

Structural fires are one of the leading causes of accidental death. Most people who die in a fire succumb to smoke inhalation. The smoke produced in a structural fire contains particles, carbon monoxide, hydrogen cyanide, as well as a variety of other toxic chemicals. The Parat C provides respiratory, eye, and head protection to the user during an evacuation.

The filter in the Dräger Parat C will provide 15 minutes or more of protection against smoke particles, and toxic gases and vapors found in the smoke of a structural fire. The molded inner mask provides a seal around the nose and mouth offering better protection to the user. This design also allows for clear voice communications to assist others in their escape.

The hood material is a self-extinguishing PVC material. The bright orange color is highly visible with good reflective properties making users easier to spot. The visor is coated with an anti-fogging agent so the user is able to see their escape route better. The hood design of the Dräger Parat C provides protection for people with facial hair, prescriptive eye wear, or long hair.

The Dräger Parat C is ideal for people who work or live in high-rise buildings, large institutions like hospitals, or industrial facilities. The hard-sided case can be permanently mounted while the soft-sided case is ideal for traveling. The Dräger Parat C is maintenance free and has a 12-year shelf life, provided the canister is replaced after 6 years. No NIOSH approval is written for smoke escape hoods, but the Dräger Parat C has European EN 143 and 403 approvals.



### DRÄGER PARAT C ORDER INFORMATION

Dräger Parat C Hood in soft-sided vinyl case	R 53 555
Dräger Parat C Hood in hard-sided plastic case	R 52 818
Dräger Parat C twin pack with wall mount kit	R 52 845
Wall bracket for hard-sided case	R 51 906
Belt to carry Parat C	R 53 205
Replacement filter kit	R 57 302



ST-2418-2003



Dräger Parat C

ST-2710-2002



Soft Pack

ST-5386-2007



Hard Case

ST-5384-2007



Twin Pack



# Immediate.

## Foolproof. Affordable.

# Comfortable.



## Dräger SCape® CBRN 30

Technology to protect in hostile environments — tested and proven for unparalleled protection.

Protection factor testing was completed in accordance with NIOSH Laboratory Respiratory Protection Level (LRPL) test protocol. This test was conducted by the U.S. Army at the Edgewood Chemical Biological Center in Edgewood, Maryland.

Results of the testing demonstrate that extremely high levels of protection are provided by Dräger SCape® CBRN 30. An average fit factor<sup>1</sup> (FF) of 97,953 was achieved for the 60 test trials. 52 of the 60 trials had an FF of 100,000 or greater. The minimum FF measured was 66,143 — far exceeding the NIOSH FF requirement of 2,000 or greater.

The Dräger SCape® CBRN 30 features automatic blower actuation which allows for fool-proof operation. The blower automatically starts when hood is removed from case. The user only has to put on the hood to be protected. Since the SCape® CBRN 30 is one size it

eliminates logistical issues stemming from multiple sizes. In addition, there is no nose cup or mouth bit which also eliminates sizing difficulties. This feature dramatically improves communication — even with telephones, cell phones and other communication devices.

### APPROVED BY NIOSH

Approved by NIOSH as a 30-minute General Category Escape Mask under the Standard for Chemical, Biological, Radiological and Nuclear (CBRN) Air-Purifying Escape Respirators (September 30, 2003)

NIOSH Approval Number TC-14G-0277





### SCAPE® CBRN FEATURES

- Automatic Blower Actuation
- One Size
- No Nosecup or Mouthbit
- Blower Indicator Light
- Comfortable Neck Seal
- Quiet 64 LPM Blower
- Exhaust Valve
- Filter Canister
- Sealed Case
- No fit testing required
- Approved by NIOSH

<sup>1</sup>Fit Factor is defined as the ratio of the challenge concentration outside the hood to the concentration inside the hood.

### BABY SCAPE® HOOD

- Not NIOSH approved, however, the hood utilizes the same technology as the Dräger SCape® CBRN 30
- For children 3 months to 3 years old
- Protects against chemical warfare agents and biological, radiological, and nuclear inhalation particulates
- Same technology as SCape® CBRN 30
- Positive pressure hood (64 Lpm) protects children with respiratory ailments, long hair, eye glasses
- Operates for 4 hours
- Light Weight
- Comfortable, allows for easy speaking and hearing

### ORDER INFORMATION

Dräger SCape® CBRN 30	40 57 805
Dräger Baby SCape® Hood	40 57 807







## Dräger Emergency Escape Respirators

### DRÄGER QUICKAIR™

The Dräger QuickAir™ provides a constant flow of breathing air up to 5 or 10 minutes into a transparent, flame-resistant hood for escape purposes. The hood easily accommodates people with prescriptive eye wear, long hair and beards. The Dräger QuickAir™ is lightweight, easy to carry and can be worn over the shoulder or across the chest.

Able to be donned quickly the Dräger QuickAir™ carrying bag has easy to follow picto-grams to serve as a quick reminder for proper operation. The orange case is highly visible and is durable enough to withstand long-shelf life conditions in extreme environments.

The Dräger Quick Air™ is NIOSH approved as a self-contained breathing apparatus for escape purposes. Popular applications include laboratories, chemical plants, power plants and shipboard usage.

#### ORDER INFORMATION

Dräger QuickAir™, 5-minute @ 40 L/min (2216 psi)	40 554 38
Dräger QuickAir™, 10-minute @ 40 L/min (3000 psi)	40 549 54
Storage Case, QuickAir™, 5-minute	40 550 42
Storage Case, QuickAir™, 10-minute	40 550 41



ST-487-2007

### DRÄGER OXY K PLUS

The Dräger Oxy K Plus is a belt wearable Self Contained Self Rescuer (SCSR). Chemically generated oxygen (KO<sub>2</sub>) provides a minimum of 60 minutes operational escape time. Unlike filter escape units, the Oxy K Plus operates independent of the ambient atmosphere and can be used in oxygen deficient environments.

Dräger's patented Speed-Flip latch allows for fast and safe opening of the unit. The self-starter immediately flows 6 liters of oxygen into the breathing bag making it immediately available for operation.

This MSHA/NIOSH/EN approved escape unit is designed to meet the rigors of an underground mining or tunneling environment, but can be used in other operations that require longer duration escape devices. The Dräger Oxy K Plus has a service life of 8 years when worn daily on the belt and 10 years in storage.

#### ORDER INFORMATION

Dräger Oxy K Plus	63 02 000
Dräger Oxy K Plus, 60 Minute Training Unit	63 02 001
Shoulder/Carrying Strap	63 03 070



ST-1191-2004

Oxy K plus S



ST-2667-2004

Oxy K plus S



## Small, short duration breathing apparatus.

Combining versatility, ease of use and the latest in breathing apparatus design, Dräger's Supplied Airline Respirators (SAR) and Personal Airline Systems (PAS) are among the most technologically advanced short duration and emergency escape units available.

### DRÄGER PAS COLT (SAR)

The Dräger PAS Colt is a Supplied Airline Respirator that is NIOSH approved and may be used with up to 300 feet or 12 hose length sections from the air source, whichever is greater.

The very latest harness design and materials make wearing the ergonomically designed Dräger PAS Colt SAR stable and comfortable. The versatility allows it to be used in those applications which don't require an escape cylinder. The Dräger PAS Colt SAR is the perfect combination of comfort, durability and safety.

The Dräger PAS Colt SAR is a hip-mounted unit with a distinctive, sophisticated harness design which retains its form, making it easy for the wearer to don the apparatus simply and quickly.

The procedure for donning the apparatus is evident at first glance, even to the inexperienced user. Designed to be unclipped from the waist belt, the Dräger PAS Colt SAR is ideal for use in many applications. The harness has been constructed using an anti-static material inert to chemicals and oil, and impervious to most acids and alkalis.

The Dräger PAS Colt SAR includes the versatile Dräger Panorama Nova full facepiece with triple sealing edges for a superior fit, and a speech diaphragm for clear communications. Three sizes in one mask is also compatible with other Dräger compressed air respiratory products.



## DRÄGER PAS COLT

The PAS Colt is a 5 or 10-minute Supplied Air Respirator (SAR) approved for up to 300 feet of airline hose. The unique over the shoulder tangle free harness design incorporates flame/heat resistant, chemical resistant materials and is machine washable for easy maintenance.

The first stage pressure reducer, second stage lung demand regulator, and shoulder buckles share the same origin as our NIOSH CBRN SCBAs.

The Dräger PAS Colt utilizes the Dräger Panorama Nova full facemask with three-size-in-one technology.

## DRÄGER PAS MICRO (PAS)

The Dräger PAS Micro is a 15 minute SCBA with the capability of adding a Supplied Air Respirator (SAR) connection, making it very versatile for working in hazardous environments. The harness has been constructed of flame, heat and chemical resistant materials that are anti-static and are easy to clean and maintain. The streamlined tangle free harness has been designed for mobility and is easy to don/doff.

The first stage pressure reducer, second stage lung demand regulator, and shoulder buckles share the same origin as our NIOSH CBRN SCBAs.

The Dräger PAS Micro utilizes the Dräger Panorama Nova full facemask with three-size-in-one technology.



## ORDER INFORMATION

### Dräger Colt SAR

Colt SAR with mask and Hansen Brass plug	40 57 628
Colt SAR without mask and Hansen Brass plug	40 57 629

### Dräger PAS Colt

Colt 5-Minute with mask, Hansen Brass	40 57 539
Colt 5-Minute without mask, Hansen Brass	40 57 540
Colt 10-Minute with mask, Hansen Brass	40 57 541
Colt 10-Minute without mask, Hansen Brass	40 57 542
Installed Colt LP SAR Alarm, Hansen Brass	40 57 538
Additional SAR Fittings Available	

### Dräger PAS Micro

Micro SCBA Long Hose with mask	40 57 530
Micro SCBA Long Hose without mask	40 57 532
Micro SCBA Short Hose (with QD) with mask	40 57 531
Micro SCBA Short Hose (with QD) without mask	40 57 533
Installed Micro SAR with Hansen Brass	40 57 535

## Dräger Airline Respirators - Constant Flow

### DRÄGER PENTAIR

The Dräger PentAir constant flow respirators are designed with comfort, protection and flexibility in mind. They can be used for in wide variety of situations like paint spraying, grinding, welding, and other non-IDLH applications.

The user has the choice of fixed flow, adjustable flow, or adjustable cool-flow valves. The adjustable valve allows the user to increase or decrease air flow to the mask. The cool-flow valve cools the air through a venturi and ideal for applications with elevated temperatures.

The Dräger PentAir uses the Dräger Panorama Nova mask that features the triple sealing edge that provides three-sizes-in-one mask and also offers the versatility of using the full line of Dräger NIOSH approved filter cartridges.



### ORDER INFORMATION

Dräger PentAir, Fixed Flow, with Panorama Nova Mask	40 55 168
Dräger PentAir, Adjustable Flow, with Panorama Nova Mask	40 55 170
Dräger PentAir Mask Respirator Kit - Complete	40 55 192
Consists of: PentAir Fixed Flow with Panorama Nova Mask, 50 ft light-duty hose, Hansen socket set, and 2-user portable air pump.	

Silicone masks, stainless steel airline connections, and other options and accessories are available for the Dräger Pent Air. Contact your local Dräger representative for more information.

### DRÄGER PORTABLE AIR PUMPS

Supply your fixed flow PentAir mask or other manufacturer's hoods with the Dräger Portable Air Pump. Our ambient air pump provides a maximum of 15 CFM flow at an output of 15 psi. This electric driven pump is oil-less so there are no concerns of oil by-products entering the breathing air. Three different versions are available to meet your supplied air demands. All versions come complete with intake and outlet particle filters.



### ORDER INFORMATION

Portable Air Pump, supplies 2 masks or 1 hood	40 55 172
Portable Air Pump, supplies 3 masks or 2 hoods	40 55 169
Portable Air Pump, supplies 4 masks or 3 hoods	40 55 166



# Reliable Solutions

ready when you need them.

## Dräger Airline Equipment

### DRÄGER AIRLINE HOSE

Maintain the NIOSH certification of your Dräger airline respirators by using approved Dräger airline hose. Choose from heavy-duty, light-duty hoses in lengths from 5 to 100 feet, and type of fitting required.

The heavy-duty hose is constructed of nitrile with a rugged neoprene cover and has an outer wall diameter of 0.75". It offers better resistance to abrasions and kinks and withstands more demanding and physical environments. The light-duty hose is constructed of PVC and has an outer wall diameter of 0.68". This hose is well suited to many applications and is 40% lighter making it easier to maneuver and decontaminate.

Both hoses have an inside diameter of 0.375" and comes with a male and a female pipe thread fitting at either end. Hoses may be directly joined together (end to end) or with the use of optional quick connect couplings.



ST-339-2007

### ORDER INFORMATION

#### Heavy-duty Airline with threaded connections

5-foot length	40 59 357
25-foot length	40 59 061
50-foot length	40 59 062
75-foot length	40 54 854
100-foot length	40 59 063

#### Light-duty Airline with threaded connections

5-foot length	40 59 357L
25-foot length	40 59 061L
50-foot length	40 59 062L
75-foot length	40 54 854L
100-foot length	40 59 063L

### DRÄGER CASCADE SYSTEMS

Dräger can provide you with all the components needed to set up your supplied air respirator system. Our Cascade Breathing Air Systems are designed to provide breathing air for up to 4 airline respirators. Each system comes complete with: pressure reducer, dual pressure gauges, relief valve, low-pressure alarm, inline check valves, and distribution manifold with 4 Hansen brass quick connects.

We also supply high and low pressure compressors and the associated accessories to fill your SCBA cylinders. Our custom designed cascade systems meet your individual breathing air storage and delivery requirements.



### ORDER INFORMATION

Dräger 1 cylinder system (up to 3000 psi), without cylinders	40 55 749
Dräger 3 cylinder system (up to 3000 psi), without cylinders	40 55 461
Dräger 3 cylinder system (up to 3000 psi), with cylinders	40 55 462

### DRÄGER K-KART II

The Dräger K-Kart II transports compressed breathing air cylinders to remote locations. Using two 300 cubic foot compressed air cylinders, the Dräger K-Kart II delivers up to 1800 L/Min of air through 4 airline connections (< 125 psi). Air is regulated from the control panel that includes two easy to read pressure gauges, low pressure warning whistle, and four Hansen brass couplers.

The 4-wheel design makes it easy to maneuver in the workplace. An optional storage bin allows you to store respirators and associated equipment for the Dräger K-Kart II. Airline hose can be stored on either a single 300 ft reel or two 150 ft reels.

The Dräger K-Kart II supplies air for confined space entry and Haz-Mat operations and other industrial applications that require more of an extended air supplies than the Dräger Handy Pak or Rescue Pak.



### ORDER INFORMATION

Dräger K-Kart II w/ 300-foot reel	40 55 327
Dräger K-Kart II w/ 300-foot reel and storage box	40 55 328
Dräger K-Kart II w/ (2) 150-foot reels	40 55 329
Dräger K-Kart II w/(2) 150-foot reels and storage box	40 55 330
K size cylinder with valve	40 59 331
Soft cover for Dräger K-Kart II	40 55 621



#### DRÄGER RESCUE AND HANDY PAK

The Dräger Handy Pak and Rescue Pak are versatile air supply systems. They can act as the primary air source, or when used with an external high-pressure air source, they serve as a backup for emergency egress.

Both systems can be used with 2 SCBA cylinders (2216 or 4500 psi) and are equipped with a low-pressure warning whistle. Pressure is regulated to four connections for airline respirators. The Handy Pak is lightweight and easily carried, whereas the Rescue Pak has wheels that make transportation easier. The Rescue Pak also contains a fifth air connection with a dedicated regulator that provides air for another respirator or pneumatic tools.

The Dräger Handy Pak and Rescue Pak are ideal for use in confined space entry; such as tank entry and cleaning, sewer maintenance operations, and other industrial applications. They are also applicable for emergency responders for use in extended Haz-Mat operations or the decontamination processes.

#### ORDER INFORMATION

Dräger Rescue Pak	40 53 977
Dräger Handy Pak	40 53 879
Cover for Dräger Rescue Pak only	40 55 257

See page 42 for available SCBA compressed air cylinders.



Dräger Rescue Pak



Dräger Handy Pak

# Safety comes first.



## DRÄGER AIRLINE EQUIPMENT



Dräger Fixed Air Filtration System



Dräger Portable Air Filtration System

Dräger's Air Filtration Panels provide Grade "D" breathing air to workers using supplied air respirators in hazardous or IDLH environments. The design allows you to connect plant air or a mobile air compressor as the primary source. The Dräger Air Filtration Panels filters particles, water vapor, oils, and odors that may be in the air. A built-in CO monitor ensures that the air is meeting grade "D" standards. The Dräger Air Filter Panels provide up to 50 CFM of breathing air through four airline connections or 100 CFM through eight airline connections.

Both versions include visual alarm and a loud (120 dbA) audible alarm and will also accept a remotely mounted alarm. They operate from 110 VAC and have a battery back-up in case of a power outage.

The Fixed version is to be permanently mounted to a wall or other stationary object. The Portable version is housed in an extremely rugged molded plastic case for easy transportation. The filters and CO monitor are protected inside while the airline connections are external to the case.

## ORDER INFORMATION

Dräger Fixed Air Filtration System, 50 CFM	40 55 356
Dräger Fixed Air Filtration System, 100 CFM	40 55 357
Dräger Portable Air Filtration System, 50 CFM	40 55 563
Dräger Portable Air Filtration System, 100 CFM	40 55 564





## The real advantage - your team and the Dräger UCF® 1600 and Dräger UCF® 3200.

The Dräger UCF 1600/3200 thermal imaging camera is suitable for use in the harshest of operating environments. Designed and built by Dräger Safety to Dräger and fire industry specifications. This new thermal imaging camera combines the very latest technology with the tradition of Dräger quality and performance.

The Dräger UCF 1600 and 3200 camera core is fully protected against heat, water and dust as well as major shocks and inhospitable temperatures. The camera provides clear detailed images in smoke filled fire fighting environments. The VOx microbolometer camera engine covers a very wide dynamic range for optimal performance. Distant subjects are brought into closer view, and in greater detail, using a standard digital 2x zoom. The optional Thermal Scan (TS) technology allows hidden sources of heat to be detected quickly and clearly using crossfire technology. A selection of six different color palettes are available to indicate temperatures and optimize the image for various applications.

### DRÄGER UCF 1600/3200 ADVANTAGES

- Small, light and extremely robust.
- Ergonomic design for comfortable handling and optimum operability.
- Micro IR VOx microbolometer technology for unique image coloration and quality.
- Two transparent color (TC) operating modules for high and low temperature ranges.
- Flexible UCF-color ranges for optimum display of the thermal images.
- Direct temperature detection in Fahrenheit and Celsius by aiming at an object.
- Thermal Scan function (TS) complete with adjustable coloration of the thermal image.
- Unique smart battery management system with a battery service life of up to 4 hours.
- Truck charging unit for the direct and simultaneous charging of the camera and a replacement battery.
- Tripod connection point integrated into the housing.
- Lightest weight and ergonomically balanced camera.



Dräger UCF 3200 (320 x 240 pixels)  
Dräger UCF 1600 (160 x 120 pixels)  
the lightest, compact most innovative  
microbolometer camera

### ORDER INFORMATION

Standard Res Camera, UCF 1600 (NTSC) (with Thermal Scan)	40 57 985
Standard Res Camera, UCF 1600 (NTSC)	40 58 035
Standard Res Camera, UCF 3200 (NTSC) (with Thermal Scan)	40 57 990
Standard Res Camera, UCF 3200 (NTSC)	40 58 040

The camera is supplied, as standard, with one battery charger, instructions for use and contained within a Pelican case.

# Setting the Standard in respiratory protection.





## Dräger Self-Contained Breathing Apparatus (SCBA)

### DRÄGER PROAIR® NIOSH APPROVED

The Dräger ProAir® Evolution is a high-performance industrial breathing apparatus, designed by those individuals who require maximum respiratory protection from hazards in the workplace. This NIOSH-certified SCBA offers reliability, comfort, and low cost of ownership.

The Dräger Panorama Nova Mask with its exclusive three-sizes-in-one design is standard on the Dräger ProAir® SCBA. The Dräger Panorama Nova Mask is also used on our Supplied Air (SAR) and Airline Egress (ALE) Respirators and therefore simplifies training and mask fit testing requirements and spare part requirements.

The lightweight carbon fiber back plate and nylon harness is ergonomically designed for comfort while being extremely rugged and chemically resistant. The fail-safe first stage pressure reducer and the complete pneumatic system is covered by a lifetime warranty.



ST-591-2006

### ORDER INFORMATION

ProAir® SCBA, w/30 min. 2216 psi, Aluminum Cylinder \_\_\_\_\_ 40 55 399

ProAir® SCBA, w/60 min. 4500 psi, Carbon Fiber Composite Cylinder \_\_\_\_\_ 40 55 739

The ProAir® SCBA is available with various cylinders and installed options. See the SCBA Components and Accessories section for more information. Contact your local Dräger representative for additional information.

### DRÄGER AIRBOSS® PSS 97

The Dräger AirBoss® PSS 97 Plus Series is a NIOSH approved SCBA for extreme conditions and applications. This SCBA meets the standard requirements of NIOSH and meets previous North American standards for fire fighting applications.

This Dräger SCBA offers a higher level of durability and comfort over our standard NIOSH approved industrial model. The Kevlar blend harness suspension system performs extremely well in high heat applications and has outstanding resistance to abrasion. The padded waist and shoulder strap are more comfortable in situations where the unit is frequently worn.

As with all Dräger SCBAs, the Dräger AirBoss® PSS 97 is backed by our lifetime warranty on the pneumatic system. The AirBoss® PSS 97 lets you concentrate on the job at hand, not on your equipment.



ST-380-2007

### ORDER INFORMATION

The AirBoss® PSS 97 SCBA is available with various cylinders and installed options. See the SCBA Components and Accessories section for more information. Contact your local Dräger representative for additional information.



# Evolution in breathing apparatus.

## Dräger PSS 7000 Series

The Dräger PSS 7000 was developed with direct input from firefighters throughout North America.

The only self contained breathing apparatus designed and developed by Dräger - the world's largest SCBA manufacturer to meet NFPA 1981-2007 edition standard - the world's toughest SCBA standards. Using proven technology the Dräger PSS 7000 SCBA meets the expectations of firefighters.

### DESIGNED TO EXCEED YOUR REQUIREMENTS

The Dräger PSS 7000 SCBA was designed to provide firefighters with exceptional safety, comfort and durability. Dräger continues its ongoing commitment to provide firefighters with the latest state-of-the-art breathing apparatus. The Dräger PSS 7000 is a world class breathing apparatus that instills firefighter confidence during operational use. This new unit contains only one single battery source. A key to streamlining the unit for ease of use.

The new harness suspension system is a key feature of the Dräger PSS 7000. The advanced compression molded comfort padding combined with high temperature performance provides excellent wear characteristics. Our new designed harness suspension system provides the ultimate in

wearer comfort. The outer surface of the harness is made from a vulcanized chloroprene rubber providing excellent stability and the harness remains in position and secure to the firefighter's body. Advanced designed harness friction buckles allow for quick and easy donning and doffing of the Dräger PSS 7000 SCBA.

The Dräger PSS 7000 carbon fiber composite back plate is adjustable to fit to the torso length of any firefighter. The unique 3-position height adjustment feature allows the wearer to adjust the height of the back plate quickly.

Dräger's FPS 7000 series face mask sets new standards in personal safety, protection and comfort. The Dräger FPS 7000 face mask is the only mask designed specifically to meet the new NFPA 1981-2007 standards. Available in multiple sizes, the FPS 7000 face mask also has the largest unobstructed field of vision of any mask. Accessories like the FPS-COM voice amplification system is fully integrated into the face mask providing clear communications to other firefighters.



ST-9262-2007

Unique 3-position backplate fully adjusts to fit all torso lengths.



ST-9250-2007

**Dräger FPS 7000**  
P-connector



ST-9507-2006

**Dräger FPS 7000**  
P-connector with Dräger FPS-COM System





**FIELD OF VISION**

The Dräger FPS 7000 face mask was designed to provide the firefighter with an exceptional unobstructed wide field of vision. The tough distortion free polycarbonate visor has an anti-scratch coating for protection. Incoming air enters the face mask via a unique one-way valve, distributing the air evenly over the inside of the visor, preventing fogging and cross contamination to the lung demand valve.

**MASK BODY AND FIT**

The FPS mask body is made of a durable EPDM rubber material providing an excellent facial seal with outstanding comfort. The unique triple sealing edges on the FPS 7000 face mask (industry first) follows the contour of the firefighters face providing an excellent seal. Three size face masks and inner masks now guarantee a perfect fit to any firefighter. Ergonomically designed, the quick donning head harness forms to the shape of the head to provide excellent comfort and support of the mask to the face.

**DRÄGER PSS 7000 ORDER INFORMATION**

Dräger PSS 7000	HP backplate with harness, LDV, Sentinel 7000, Cylinder Quick Release	40 58 651
Dräger PSS 7000	LP backplate with harness, LDV, Sentinel 7000, Cylinder Quick Release	40 58 652
Dräger PSS 7000	HP backplate with harness, LDV, Sentinel 7000, Standard CGA fitting	40 58 653
Dräger PSS 7000	LP backplate with harness, LDV, Sentinel 7000, Standard CGA fitting	40 58 654

**DRÄGER FPS 7000 SERIES ORDER INFORMATION\***

	Connector	Material	Size (mask/inner mask)	Visor	Adaptation System	Order Number
Dräger FPS 7700	P-connector					
Dräger FPS 7730		EPDM	M2	PC	CR	R 56 200
		EPDM	S1	PC	CR	R 56 249
		EPDM	L2	PC	CR	R 56 300

\*Additional versions are also available. Please contact your sales representative for additional information.

PC- Polycarbonate





## Dräger AirBoss® 2007 Series

The AirBoss® 2007 lets you concentrate on the job at hand, not on your equipment. This Dräger high performance breathing apparatus, is designed specifically for use in professional fire fighting applications. Reliability, durability, and comfort are the main objectives.

### DRÄGER AIRBOSS® EVOLUTION PLUS

The Dräger AirBoss® Evolution Plus is our high performance breathing apparatus. NIOSH/NFPA certified, the Dräger AirBoss® Evolution Plus offers unmatched reliability and safety with the proven pneumatics, durability and comfort. Many options and accessories are available to meet specific needs.

This ergonomically designed mechanical system means less stress on the back and shoulders. A lightweight carbon composite one-piece back plate conforms to the shape of your back. The comfort harness suspension system removes weight from the shoulders and applies it to the hips, where you are able to carry more weight.

You can be assured that you will get every breath you need, every time you need it. The first stage reducer features a fail safe design and will deliver all of the breathing air that you need, even in the most demanding situations and is backed by a lifetime warranty

The NFPA approved AirBoss® Evolution Plus 2007 SCBA includes Dräger's wireless PRISM® Pressure Information System for pressure indications inside the mask and a Rapid Intervention Crew Universal Airline Coupling for rescue of downed fire fighters.

With many options and accessories available, the Dräger AirBoss® Evolution Plus 2007 SCBAs can be tailored to meet your specific needs. Customize the Dräger AirBoss® Evolution Plus 2007 to your department's needs now or easily add accessories later. Be assured that with Dräger you'll get the highest quality product available.

### DRÄGER AIRBOSS® EVOLUTION PLUS SPECIFICATIONS AND APPROVALS

UL913 Class 1, Groups C & D, Class II Groups E, F, G  
NIOSH 42 CFR84  
NFPS 1981-2007 Ed.  
NIOSH CBRN

### ORDER INFORMATION

The AirBoss® Evolution Plus 2007 SCBA is available with various cylinders and installed options. See the SCBA Components and Accessories section for more information. Contact your local Dräger representative for additional information.

### DRÄGER AIRBOSS® PSS 100 PLUS

The proven performance of the Dräger AirBoss® Evolution Plus is integrated within the unique carrying system of the Dräger PSS 100 Plus to create the next generation fire service SCBA. The Dräger PSS 100 Plus is designed with a pivoting and sliding comfort waist pad as well as fully adjustable shoulder suspension system. The Dräger PSS 100 Plus back plate can be adjusted to suit both short and tall users. This unique and revolutionary design of the Dräger PSS 100 Plus provides a lower center of gravity by placing the weight on the hips. This means greater comfort and maneuverability for the fire fighter.

### ORDER INFORMATION

Contact your local Dräger representative for additional information.



ST-2448-2003

Dräger AirBoss® Evolution Plus



ST-2449-2003

Dräger AirBoss® PSS 100





## Dräger FPS 7000 HUD System

No matter what the environment conditions are the new Dräger FPS 7000 HUD system will always provide valuable cylinder information directly to the firefighter.

The Dräger FPS 7000 HUD System, is a wireless Heads-Up-Display (HUD) that meets the rigorous demands of NFPA 1981-2007 edition. The transmitter for the Dräger PSS 7000 series is integrated within the back plate electronics and quantitatively measures the air pressure in the SCBA cylinder. The Dräger PSS 7000 transducer is within the central "brain." Automatically activated when the cylinder is turned on, it continuously transmits real-time pressure levels via inductive loop technology to a receiver (display unit) inside the user's facemask. A series of lights on the receiver indicate air pressure and alert signals. The user is kept continuously updated as to the quantity of air remaining in their SCBA air cylinder by the Dräger FPS 7000 HUD System.

Waterproof, robust and reliable and using the latest wireless technology the HUD can be easily installed in seconds. The wireless feature of the Dräger FPS 7000 HUD System eliminates connecting wires that are a potential snag hazard. There are no wires, so

there is less maintenance to the SCBA. The Dräger FPS 7000 HUD System display unit is located inside the mask, protected from heat, dirt, water and smoke. The low profile design does not interfere with the user's field of vision and the photocell automatically adjusts the display brightness to the correct intensity for the ambient lighting conditions.

When used for 30 minutes a day, the Dräger FPS 7000 HUD System will operate for approximately 12 months. The Dräger FPS 7000 HUD System is approved to both US and Canadian standards for use in Class I Groups C and D, Class II Groups E, F, and G.

The Dräger FPS 7000 HUD System is standard equipment on all NFPA 1981-2007 Edition Dräger AirBoss® Evolution Plus and Dräger PSS 7000 Series SCBAs.

## Dräger SCBA Components and Accessories

### DRÄGER SENTINEL 7000

The Dräger Sentinel 7000 is a fully integrated “Life Support Monitoring Device” for firefighting SCBAs. It is both a cylinder pressure indicating gauge and an integrated PASS warning device with visual and attention demanding (>95 dBA) audible warnings.

The cylinder pressure is indicated on a dual analog/digital backlit gauge. The Dräger Sentinel 7000 automatically calculates and displays real time to low-pressure alarm based on the user’s actual breathing consumption rate. Four high intensity flashing lights and a loud unique “chirping” alarm are used for the low-pressure warning signal.

All data is recorded and stored within the Dräger Sentinel 7000 (time/date, cylinder pressure, breathing rate and alarm activation) and can be downloaded at a later time.

### SPECIFICATIONS AND APPROVALS

PASS: NFPA 1982, 2007 Edition

Intrinsic Safety: UL913 Class 1, Groups C & D Class II Groups E, F, G

### ORDER INFORMATION

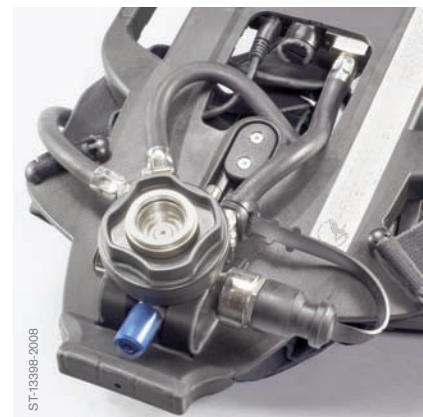
Please contact Dräger for more information.



Dräger Sentinel 7000 Device

### DRÄGER PSS 7000 CYLINDER QUICK DOCKING SYSTEM

Dräger’s Cylinder Quick Docking system allows firefighters to easily connect cylinders on the backplate in less than 10 seconds.



## DrägerMan PSS® Merlin™

Dräger has always had an outstanding reputation for innovation, design and life-saving technology. The company was founded in 1889 and has been dedicated to the protection of human life ever since.

Dräger has automated entry control systems to become a lifeline for the breathing apparatus wearer, ensuring their safety by remotely monitoring from outside the incident they are attending. The DrägerMan PSS Merlin® is the first entry control system of its kind, offering a level of monitoring and protection not previously available.

### DATA RADIO TECHNOLOGY

Using state of the art data radio technology, the DrägerMan PSS® Merlin™ is a fully automatic, electronic breathing apparatus control system. Merlin™ incorporates an entry control board and a portable remote data module. The system allows the Entry Control Officer to monitor the exact status of up to twelve individual team members simultaneously from outside the incident or hot zone.



### THE DRÄGER PSS® MERLIN™ PROVIDES:

- Continuous transmission of cylinder pressure
- Continuous transmission of time to warning alarms
- Continuous transmission of thermal absorbed temperature
- Automatic PASS alarm signal
- Manual PASS alarm signal
- Voluntary withdrawal signal
- Individual evacuation command
- Group evacuation command
- The entry control board displays additional data according to your needs:
  - Time of warning
  - Elapsed time
  - Battery life indicator
  - Time to low air alarm flashing display prompt

**INNOVATIVE DESIGN**

The DrägerMan PSS® Merlin™ control board is a battery operated self contained unit, with built in radio transmitter and antenna, allowing up to 12 team members per board to be monitored simultaneously. Because the Dräger PSS® Merlin™ is continuously updated with the latest status of each team member, the Entry Control Officer can react immediately in an emergency.

The DrägerMan PSS® Merlin™ is robust and designed to withstand the demands of Fire Service wear and tear.

**RADIO TECHNOLOGY**

Connection to Dräger’s dedicated digital remote data module is via the Infra Red port. The cable to the remote data module is protected by a flame retardant aramid shroud.

The DrägerMan PSS® Merlin™ is programmed to detect when radio contact had been lost, both the SCBA wearer and the Entry Control Officer are made aware by audible and visual warnings when this has occurred. Signals cancelled when contact has been re-established. All additional updates (during loss of signal) are immediate.

**ADAPTABLE**

The Dräger Merlin™ board is molded with carrying handles for maximum portability and for additional flexibility can also be mounted onto the fire truck.

The DrägerMan PSS® Merlin™ can be tailored with software and data can be downloaded from the Merlin™ board for post-incident analysis.

**DRÄGER PSS® MERLIN™ TECHNICAL DATA**

Power Supply	Control Board 7.2V rechargeable, Nickel Metal Hydride
	Radio 6.5V rechargeable, Nickel Metal Hydride
Weight (approximate)	Control Board 16.5 lbs (7.5 kg)
	Radio Assembly 1.7 lbs. (0.75 kg)
Dimensions (approximate)	Control Board 17.7 x 30.7 x 2.8 in. (450 x 780 x 70 mm)
	Remote Data Module 4.3 x 2.8 x 2 in. (109 x 70 x 50 mm)
	Port Unit Antenna 2.2 in. (60 mm)





# Your partner in safety.

## Dräger Tracking System for Firefighters

Using the Dräger firefighter-location device firefighters can locate their trapped, missing or disoriented colleagues — or to find their own way back to their colleagues in a situation of disorientation in deteriorating conditions.

### DRÄGER FRT 1000

The Dräger FRT 1000 Tracker is a low frequency firefighter location transmitter receiver that is not obstructed by objects, walls ceilings or floors. The FRT 1000 is able to perform multiple firefighter rescue applications. This small, lightweight, durable and affordable firefighter location device has the solution to help finding lost or disoriented firefighters fast.

As soon as a colleague of the crew does not move for a short amount of time, his device will send out an audible alarm signal and will switch automatically from "stand-by mode" into "transmit-mode" (auto transmit). This feature is made possible by an integrated motion sensor. The other crew members will take their Dräger FRT 1000 out of the pouch and switch manually from "stand-by mode" into "firefighter-search mode". The digital display shows distance to the missing colleague in meters. The number decreases if they move closer to the victim.

In case of many missing firefighters, the Dräger FRT 1000 isolates the strongest signal - and thus the closest victim - within a 10 meter range. This way, you can find missing colleagues one after the other. This application of "buddy rescue" is the main purpose of the Dräger FRT 1000.

### DRÄGER ERT 1000 EGRESS TRANSMITTER

The Dräger ERT 1000 (Egress Transmitter) is an instrument which can be used in conjunction with the Dräger FRT 1000. It allows for self rescue of disoriented firefighters and safe return to a fixed exit.

The Dräger ERT 1000 is designed to give firefighters a means of egress in deteriorating conditions where options and visibility may be limited. They can be strategically placed at points of safety such as a hardened exit or the top of a stairwell by an advancing crew or by a rescue team.

After rescue of the victim or to support the retreat of the firefighters, the Dräger FRT 1000 will be switched into "egress-transmitter-search-mode". It will show the distance to the Dräger ERT 1000 in meters.

Thus the crew members will find their way out of the hazardous zone, e.g. in dense fog, without having to release a mayday.



**THE DRÄGER FRT 1000 HAS AN EFFECTIVE RANGE OF 100 FEET THAT DOESN'T INTERFERE WITH RADIO COMMUNICATIONS.**

**DRÄGER FRT 1000 ORDER INFORMATION**

Dräger FRT 1000	40 46 166
Includes: 1 Dräger FRT 1000, 2 on/off keys, attachment for retractable lanyard, 3 AAA batteries, operating manual.	

**Recommended accessories for usage**

Pouch for attachment on firefighter's equipment	40 46 164
Retractable lanyard	On Request

**DRÄGER ERT 1000 ORDER INFORMATION**

Dräger ERT 1000	R 56 760
Includes: 1 Dräger ERT 1000, 2 AAA batteries, operating manual	



Dräger FRT 1000



Dräger ERT 1000

ST-9211-2007

ST-9208-2007

ST-9215-2007

ST-9206-2007

## Dräger SCBA Components and Accessories

### DRÄGER PANORAMA NOVA FACEMASK

Dräger's exclusive triple sealing edge means that there are actually three-sizes-in-one mask, therefore, the Dräger Panorama Nova mask will fit all users. The large lens and small Dräger Plus LDV means that the SCBA user will maintain over 90% of their normal vision without distortion. A stainless steel speaking diaphragm provides clear communications with others. For CBRN users unable to utilize the silicone facepiece, we offer a small and large Panorama Nova for optimal comfort. The non-directional plug-in connection allows easy donning of the Dräger Plus LDV pressure reducer. The inhalation valve of the Dräger Panorama Nova Mask in conjunction with the exhalation valve eliminates cross contamination of the LDV. The Dräger Panorama Nova P Mask can be cleaned and decontaminated without any tools or disassembly.

The Dräger Panorama Nova mask (EPDM) is standard equipment on the Dräger ProAir® Evolution, Dräger AirBoss® PSS 97, Dräger AirBoss® Evolution Plus, and Dräger AirBoss® PSS 100 Plus SCBA.

#### ORDER INFORMATION

Panorama Nova, EPDM (NFPA 1981-2002 Edition)	40 52 955
Panorama Nova, Silicone (NFPA 1981-2002 Edition)	40 52 719
Panorama Nova, EPDM (NIOSH SCBA)	R 52 972
Panorama Nova, Silicone (NIOSH SCBA)	R 53 070
Panorama Nova, EPDM with Black Frame (NIOSH)	40 57 149
Panorama Nova, EPDM (NFPA 1981-20002 Edition) small	R 55 702
Panorama Nova, EPDM (NFPA 1981-20002 Edition) large	R 55 703



### DRÄGER PLUS LDV

The Dräger high-performance lightweight balance piston Lung Demand Valve (LDV) delivers in excess of 550 liters/minute of air, supplying all the air that anyone would use, even under the most strenuous working circumstances. The Plus LDV is a single directional airflow system and when connected to the Dräger Panorama Nova face mask is not subjected to cross contamination.

Extremely quiet, the Plus LDV is a positive pressure system that is activated on the first breath. The donning lever allows the LDV to be in a stand-by mode for quick activation when need. Even when wearing gloves, the ergonomic design of the Plus LDV allows the user to easily connect and disconnect from the mask.

The Dräger Plus LDV is standard equipment on the Dräger ProAir® Evolution, Dräger AirBoss® PSS 97, Dräger AirBoss® Evolution Plus, and Dräger AirBoss® PSS 100 Plus SCBA.

#### ORDER INFORMATION

Dräger Plus LDV with Quick Release Coupling	33 38 712
Dräger Plus LDV without Quick Release Coupling	33 38 714



**DRÄGER AIRBOSS® RIT LIFE GUARD**

Rapid Intervention Teams require specialized and rugged equipment to rescue victims or downed firefighters. The Dräger AirBoss® RIT LifeGuard will accommodate your choice of a 30, 45 or 60 minute 4500 psi cylinder in a heavy-duty, padded and fire resistant, cordura bag. Air is delivered by the same high-performance pneumatics found on the Dräger AirBoss® SCBA delivering in excess of 1000 liters/minute if needed. The cylinder is wrapped in a rugged Cordura bag with two large storage pockets and 2 "D" rings to attach other equipment.



**ORDER INFORMATION**

**AirBoss® LifeGuard** 40 56 460  
 Includes: Carrying bag, 3 ft. medium pressure version hose with female coupling and first stage pressure reducer (without cylinder)  
 See page 32 for available cylinders.

**For use with the SCBA's RIC UAC**

5 ft. high pressure fill line without gauge	40 57 070
10 ft. high pressure fill line without gauge	40 57 069
5 ft. high pressure fill line with gauge	40 57 068
10 ft. high pressure fill line with gauge	40 57 067

**For use with Both Medium Pressure and RIC UAC**

Dual line without whistle with bag	40 57 452
Dual line without whistle pneumatics only - no bag	40 57 448
Dual line with whistle with bag	40 57 454
Dual line with whistle pneumatics only - no bag	40 57 450

**DRÄGER COMPRESSED AIR CYLINDERS**

Dräger offers SCBA cylinders in different sizes and construction to meet the demands of different applications. Cylinders are offered in 2216 (low pressure) and 4500 psi (high pressure) operating pressures. Durations of 30, 45 and 60 minutes (at 40L/min breathing rate) are available. Choose from aluminum or light weight carbon fiber full-wrap construction.

SCBA cylinder valves are constructed of anodized aluminum with a built in bumper protector. The valve gauge is double sided with a luminescent gauge face for easy readability. Custom labeling is available on carbon fiber full-wrapped cylinders. Contact your local Dräger representative for details.



**ORDER INFORMATION**

Cylinder, 2216 psi, 30-minute, Aluminum	40 54 856
Cylinder, 2216 psi, 30-minute, Carbon Fiber, Full-wrapped	40 55 701
Cylinder, 4500 psi, 30-minute, Carbon Fiber, Full-wrapped	40 55 700
Cylinder, 4500 psi, 45-minute, Carbon Fiber, Full-wrapped	40 55 698
Cylinder, 4500 psi, 60-minute, Carbon Fiber, Full-wrapped	40 55 699





## Dräger SCBA Components and Accessories

### DRÄGER RAPID INTERVENTION CREW UNIVERSAL AIRLINE COUPLING (RIC UAC)

The new NFPA 1981 standard for SCBA, 2002 Edition calls for all approved SCBAs to be equipped with a Rapid Intervention Crew Universal Airline Coupling (RIC UAC). The RIC UAC allows the connection of a secondary air source to rescue downed firefighters. The fill lines will supply air to any SCBA manufacturer's RIC UAC.

On the Dräger AirBoss® Plus series of SCBAs, the RIC UAC is positioned parallel to the back plate where it provides easy access and quick connections. The unique positioning of the Dräger RIC UAC provides excellent protection against impact or snagging hazards for increased safety to the wearer.

The RIC UAC is standard equipment on all NFPA 1981-2007 edition Dräger PSS 7000, Dräger AirBoss® Evolution Plus and Dräger AirBoss® PSS 100 Plus SCBAs.



### MULTI-LINK AUXILIARY AIRLINE SYSTEM

Dräger offers the new Multi-Link Auxiliary Airline System in 20-inch and 40-inch line lengths which provides increased versatility and safety. Attaching directly to the first stage reducer, the Multi-Link system features a unique easy to use Y piece with female and male CEJN fittings. This unique configuration allows rapid connection to either an airline source i.e. RIT pack or in extreme emergency cases to another Multi-Link Auxiliary Airline. A Nomex pouch is provided with the system and attaches to the waist belt for convenient storage and easy retrieval.

#### ORDER INFORMATION

Multi-Link 40" with pouch	40 56 451
Multi-Link 20" with pouch	40 56 377



### DRÄGER AIRBOSS® HARNESS SUSPENSION SYSTEM

To compliment the ergonomic back plates of the Dräger AirBoss® Plus Series of SCBA, Dräger has designed a comfortable and rugged harness suspension system. The entire system is designed to move the weight of the SCBA away from the shoulders and onto the hips to reduce back and shoulder stress to the user.

The SCBA harness straps are constructed from a Panotex Kevlar/Aramid/U-blend interwoven material that provides a superior combination of strength, abrasion resistance, and temperature resistance. The shoulder pads and comfort waist harness further reduce stress to the user. All Dräger AirBoss® SCBAs are easy to don and adjust due to the large low profile friction buckles and quick adjust pull forward harness straps. Even when wearing gloves, the large friction buckles are easy to grasp and move for a custom fit to any size firefighter.

This extremely rugged yet comfortable harness suspension system is standard equipment on the AirBoss® Evolution Plus, AirBoss® PSS 100 Plus, and AirBoss® PSS 97 SCBAs.



**INTEGRATED SELF RESCUE HARNESS FOR SCBA**

Make your SCBA double as a fall arrest harness by replacing the standard waist pad of either the Dräger AirBoss® Evolution Plus or the Dräger AirBoss® PSS 100 with the Fire Fighter Rescue Escape Device. This self contained and pre-rigged harness is UL certified to NFPA standards. Weighing less than 4 pounds, the harness contains 50, 75 or 100 feet of Kevlar tubular webbing with a tensile strength of 5500 pounds, The harness and tubing are rated to 863 degrees F. The harness requires no special skills or extensive training to use. A pull-out carabineer is attached to a safe anchor and using a single finger the user lowers themselves to the ground. After use, the line can easily be repacked.



**DRÄGER BACOMM FOR THE PANORAMA NOVA**

The Dräger BAcomm communication system from Dräger offers advanced communication capabilities when using SCBA or CCBA's. Incorporating a voice amplifier, Dräger's BGcomm system offers distinct speech clarity and volume. The bracket assembly attaches to the facepiece and provides the contact point for the microphone. The internal microphone/bracket assembly serves as the platform for all configurations: voice amplification, radio interface or both. The amplifier locks into position using a set of spring loaded side clips to secure the amplifier on the bracket assembly. The radio interface uses a quick connection positioned on the bracket assembly. Included in the interface system is the ear speaker with a large Push To Talk (PTT) button which is easily activated with a gloved hand. A wide variety of radio connections are available.



The Dräger Lapel Microphone/PTT System is also available for use with the Dräger BAcomm.

**BACOMM COMMUNICATION SYSTEM ORDER INFORMATION**

Voice Amplifier System	40 56 197
Ear speaker with PTT	40 58 271
Ear speaker without PTT	40 57 504

**DRÄGER BACOMM LAPEL MICROPHONE FOR THE PANORAMA NOVA**

The Dräger Bacomm Lapel Microphone for the Dräger Panorama Nova offers increased versatility to the BAcomm communication system. Designed to meet military specifications this rugged lapel microphone operates in two ways. By itself it works as a standard lapel microphone when attached to the radio. When connected to the Dräger BAcomm ear speaker, the lapel microphone operates as a Push-to-Talk (PTT) unit. Two large PTT buttons, one on the side and one on the face, offer flexibility and ease of use. A large microphone/speaker allows for crisp, high volume communications when used as a lapel microphone. Located at the base of the lapel microphone is a man-down alarm which can be used to trigger the radio's alarm if the radio has one.

The lapel microphones are radio specific. Contact customer service for part number and price information for your radio needs.



## Dräger SCBA Components and Accessories

### DRÄGER SCBA CASES

Dräger offers two types of cases to protect the SCBA; a hard-sided orange case and a soft-sided duffel bag. The highly visible, high density polyethylene orange case protects the SCBA (Dräger AirBoss® Series only) from environmental conditions and impact. A wall mount kit for this case is available. The black cordura nylon duffel bag offers a padded bottom to cushion the SCBA (Dräger PSS 7000 and Dräger AirBoss® Series) during transit. The duffel bag is perfect for local transport as well as training.



ST-9296-2007

### ORDER INFORMATION

Rigid Orange for SCBA (AirBoss® Series only)	40 54 929
Blue Duffel Bag for SCBA (all SCBA's)	40 54 934
Black Duffel Bag for SCBA (all SCBA's)	40 57 795
Wall Mount for SCBA Case	40 54 980

### DRÄGER 5-PULL NOMEMX HAIRNET FOR THE DRÄGER FPS 7000

The Dräger 5-pull hairnet offers comfort and fit. Constructed of Nomex the body of the hairnet will not stretch and mis-shape over time. Elasticized straps permit fast donning and doffing while the 4-pull adjustment allows for a more comfortable fit. The 5-pull adjustment also maintains a better seal and therefore a better fit. Replacement straps are also available. The 4 pull nomex hairnet for the Dräger Panorama Nova is also available.



ST-9282-2007

### DRÄGERSORB®

Drägersorb® is used to absorb carbon dioxide (CO<sub>2</sub>) in breathing air for firefighting, rescue and mining applications.

Drägersorb® has the following characteristics:

- High abrasion resistance and reduced dust formation even under high dynamic stress.
- Large active inner surface ensuring a high absorption capacity for acidic gases.
- Uniform filling of the absorbent cartridges meaning a reproducible absorption.
- Low breathing resistance due to the hemispherical pellet form and optimum packing density.



ST-4946-2005

### DRÄGER ANTI-FOG/CLEAR PILOT

Dräger Anti-Fog is used on any Dräger facepiece where fogging of the lens may be an issue. The Dräger "Open Circuit SCBA" have never been plagued by facepiece fogging due to the flushing delivery of the air from the Lung Demand. The Dräger Rebreathers, BG 4 or 174 have long used Dräger Anti-Fog. The long duration and the physical characteristics of exhaled breath have ensured a need for Dräger Anti-Fog lens treatment. Dräger Anti-Fog is designed to reduce the amount of fogging generated within a Rebreather facepiece during a long duration exercise. Proper application of Clear Pilot will ensure maximum protection and clarity of the facepiece lens.



D-28537-2009



## Dräger Mask Accessories

### DRÄGER CBRN PLUS LDV

Certainty in uncertain times; that's what Dräger offers with its CBRN approved Dräger AirBoss® Evolution Plus and Dräger AirBoss® PSS 100 Plus. A simple modification of the lung demand valve enables these units to withstand extremely high concentrations of Weapons of Mass Destruction agents. The LDV cover is extended to fit tightly against the exhalation cover. This allows exhaled air to flush over the back of the diaphragm, removing any toxic agents that may be present. This simple design change enabled Dräger to maintain the high performance of the existing Plus LDV while adding enhanced protection against chemical agents.

Existing SCBA compliant to NFPA 1981, 2002 edition can easily be upgraded to CBRN approval. CBRN LDV standard on all NFPA 98, 2007 Dräger AirBoss® Series SCBA.



### CBRN PLUS LDV ORDER INFORMATION

CBRN Plus LDV with Quick Release Coupling	33 52 571
CBRN Plus LDV without Quick Release Coupling	33 52 572

### ACCESSORIES ORDER INFORMATION

#### Accessories for the Panorama Nova Masks

Hair Net Head Harness, NFPA	40 54 930
Hair Net Head Harness, Industrial	40 54 931
Hair Net Head 4 Pull Harness	40 57 102
Welding Shield	40 53 437
Spectacle Kit, Permanent Mount F2	R 51 548
Spectacle Kit, Removable	40 56 406
RAPid Adapter for Dräger Filter Cartridges	40 55 251
Spectacle Kit Standard Mount	R 51 548
Dual RAP Adapter for Twin Filter Cartridges	40 58 334



Dräger Spectacle Kits

#### Carrying Bags

Full Face Bag, Yellow Nylon with Belt Loops	40 53 847
Full Face Bag, Blue Nylon with Draw String	40 55 785
Full Face Case, Hard Plastic for Panorama	R 51 019
Full Face Bag, Cordura, customized (Min 50)	40 55 290

#### Anti-fog Solutions, Alcohol Free

Liquid Gel, 50 ml	R 52 560
Spray, 100 ml	R 21 120

#### Cleaners/Disinfectants

Alcohol Free Wipes, box of 100	40 53 845
AirKem A-33, Powder, (40) 1/2 oz. packets	40 54 085
AirKem A-33, Liquid, 1 Gallon	40 56 523



Dräger RAPid Adapter

# Proven Reliability and Safety by Design

## Dräger PSS BG4 closed-circuit breathing apparatus



ST-584-2003

The Dräger PSS BG 4 is a closed-circuit breathing apparatus that supplies the wearer with safe breathing air for up to 4 hours in IDLH environments. The closed-circuit design of the BG 4 is sometimes referred to as a “rebreather”. The exhaled air is passed through a canister that “scrubs” the carbon dioxide from the wearer’s breath. The dosage system on the cylinder constantly replenishes the scrubbed air with a supply of pure oxygen. As the user’s breathing rate increases, additional oxygen is automatically added into the breathing circuit. The Dräger PSS BG 4 maintains positive pressure in the breathing circuit to protect contaminants from entering into the system.

With its reinforced carbon fiber shell, the Dräger PSS BG 4 is extremely robust and able to withstand even the toughest applications. The low profile makes it easy to use inside chemical protective suits. The ergonomic backpack and padded straps make the unit comfortable to wear for extended durations.

Many of the applications in which the Dräger PSS BG 4 is used are long duration missions that last over many hours or several days, the system can be turned around quickly and used again. The Dräger PSS BG 4 is built on a modular system that allows the breathing apparatus to be easily disassembled, cleaned, replenished and quickly returned to service.

The Sentinel is a fully integrated monitoring device that is now standard on all BG 4’s. The sensor continuously measures the pressure in the oxygen cylinder. The Sentinel automatically calculates and displays real time to low pressure alarms based on the user’s actual consumption rate. The integrated warning device alerts the wearer with two high-intensity flashing lights and attention demanding (>95 dBA) audible alarm.

All data is recorded and stored in the Sentinel 7000 (time/date, cylinder pressure, breathing rate, alarm activation and thermal absorption temperature) and can be downloaded at a later time.

The Dräger BG 4 is ideally suited for longer duration operations such as Domestic Preparedness, Haz-Mat response, mine/tunnel rescue, and other operations where the duration of a conventional SCBA is not enough to complete the mission. The Dräger BG 4 meets the needs of the toughest and longest assignments.information.

### ORDER INFORMATION

The BG 4 is available in various configurations with several options and accessories depending on your application. Contact your local Dräger representative for more information.



ST-486-2007



ST-381-2007



ST-13397-2008



ST-9389-2009

**DRÄGER CAREVENT® (DRA)**

**Consistent Automatic Resuscitation Equipment Rescue Resuscitator**

The rescue of a trapped miner underground has presented new challenges over the last few years. The Dräger CAREvent® (DRA) Automatic Rescue Resuscitator has been developed to meet these challenges complying with the latest ERC and AHA Guidelines 2005 for Resuscitation. The Dräger CAREvent® (DRA) has "only one external control". The underground mining environment is considered to be so hazardous that the less the rescuer has to do to ventilate and transport the patient, the quicker the patient can be resuscitated and the greater the chance for the patient's survival.

**ORDER INFORMATION**

CAREvent® (DRA)	40 57 794
BG Facepiece EPDM	R 53 306
BG Facepiece Silicone Style	R 53 316
Oxygen Cylinder	B 30 229



ST-382-2007



## Dräger Test Equipment

### DRÄGER AEROTEST KITS

The Dräger Aerotest Kits allow you to measure the quality of breathing air on the spot. The kits come complete with Dräger-Tubes® for measuring CO, CO<sub>2</sub>, Oil Mist and Water Vapor. There are two Dräger Aerotest kits available, the “Alpha”, for measuring low-pressure air sources such as those used for supplied air respirators and the “HP”, a high-pressure kit that can be connected directly to compressors or cylinders. The Simultaneous test manifold allows all four gas and vapor tests to be run at the same time that results in a very short analysis time (< 5 min). Additional gases and vapors can be measured with the accuro® Pump and Dräger-Tubes®.

#### ORDER INFORMATION

Aerotest Simultan Alpha (< 175 psi)	40 56 747
Aerotest Simultan HP (< 4500 psi)	40 55 986



### DRÄGER ZEPHYR-AIR

The Dräger Zephyr-Air Sample Kits enable you to get a complete National Institute of Standards and Technology (NIST) traceable laboratory analysis done to your compressed breathing air samples. The Dräger Zephyr-Air Kit comes complete. Simply hook it up to your compressor and fill up the sampling container with the air to be analyzed. Place the sample container in the pre-postage paid container and send it off to the Dräger laboratory for analysis. Advanced gas chromatography, gravimetric analysis, and a thin film hygrometer are used to precisely analyze the sample. The official results from an American Association of Laboratory Accreditation will be sent in days.

#### ORDER INFORMATION

Zephyr-Air Compressed Air Sample Kit	4056121
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### DRÄGER FITTESTER 3000

The Dräger FitTester 3000 is a Quantitative Mask Fit Tester. It is a highly specialized instrument which utilizes the scientifically proven and patented “CNP” (Controlled Negative Pressure) technology to measure respirator leakage directly. The Dräger FitTester 3000 is now written into the Federal Regulations governing fit testing (29 CFR 1910.134). The CNP based fit tester has a +/- 3% flow measurement capability. Its increasing level of precision and repeatability, achieved with the “CNP” technology enables very accurate testing respective of the environment or human variables.

#### ORDER INFORMATION

FitTester 3000 without printer	40 57 110
FitTester 3000 with printer	40 57 051

#### FitTest Adapters

40mm Threaded Masks	40 56 318
Positive Pressure Masks	40 56 319
X-Plore® Twin Filter Masks	40 57 023
P100 for threaded & positive pressure masks	40 55 497



### DRÄGER POSITEST3

The PosiTest3 automatically determines the SCBA's operation by using dynamic tests and functional checks that quantitatively determine whether SCBA's meet NIOSH and NFPA requirements. It then stores the test results right on your personal computer. Each SCBA manufactured has specific software and is recommended for testing on the PosiTest3.

Details on the evaluation and dynamic performance test:

- Mask leak check and static mask pressure, as well as exhalation valve opening pressure
- Breathing resistance at standard (40 LPM) work- rate and maximum (100 LPM) work-rate
- By-pass flow-rate pressure gauge accuracy
- Low pressure alarm activation and redundant alarm test
- Optional medium pressure transducer lets you dynamically test first stage regulator performance



### DRÄGER TEST-IT 6100 ORDER INFORMATION

Positest3	40 56 465
Positest3 Software for Dräger SCBA	40 56 071
Positest CCBA/SCBA	40 57 829

### DRÄGER RZ-50E TEST SET

The RZ-50e Test Set is an economical combination test set that analyzes all of the functional parameters and mask leak tightness of the BG 4 Closed Circuit Breathing Apparatus. The Electronic Flow Meter and Electronic Pressure Gauges provide accuracy in these tests. The RZ-50e is compact and portable and tests all functions of the BG 4 quickly and easily. The RZ-50e assures the user that the BG 4 is ready to safely don and use.

The RZ-50e Test Set tests the following parameters of the BG 4:

- Mask leak tightness and low pressure warning threshold
- Inhalation and exhalation valves, as well as drain valve and by-pass valve test
- Positive pressure leak test and high pressure leak test
- Constant dosage and minimum valve and relief valve activation
- Complete Monitron system check



### RZ-50E TESTER ORDER INFORMATION

RZ-50e Tester	4056732
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### DRÄGER DRÄGER TEST-IT 6100

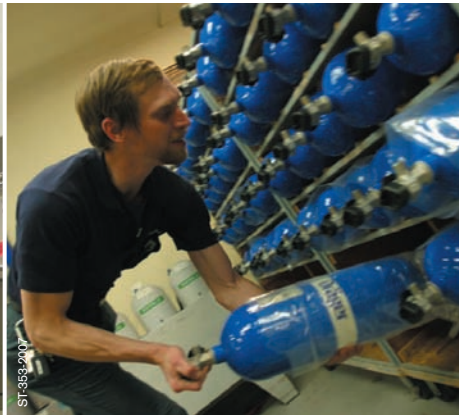
The Dräger Test-it 6100 is a portable compact test device designed specifically for testing your closed circuit breathing apparatus (CCBA). Including all required accessories e.g. adapters and hoses for the Dräger PSS BG 4 - compact in suitcase design - it offers reliable quality at an affordable price combined with low operating costs. Dräger Test-it 6100 offers testing of all functions of your CCBA. The housing is robust and splash-proofed to category IP 64. A power supply is included with the device.

### DRÄGER TEST-IT 6100 ORDER INFORMATION

Dräger Test-it 6100	AG 02 690
Mask Leak Test Kit BG 4	40 56 567



# Training and Support for your Dräger protection and detection equipment.



## DrägerService

Let DrägerService provide expert care for your respiratory protection equipment. Dräger has strategically located Service Centers across North America in Pittsburgh PA, Los Angeles CA, Houston TX, Mississauga ON, Sudbury ON, Montreal PQ, Edmonton AB, and Queretaro, Mexico. Services are available at these locations or on-site.

DrägerService supports with a full range of technical services including gas calibration, maintenance, upgrades and repairs. Services can be arranged on an as needed basis, or through maintenance agreements and service contracts. Our all-encompassing Total Care Packages provide all services, including loaner units when needed.

### DRÄGER TRAINING

The best safety equipment is only as good as the knowledge of those who use it. Let Dräger train your staff on the proper use and maintenance of all of our products. We offer both operator and technician level courses at our service facilities or at your site. Students are provided with the appropriate training materials such as posters, videos, CDs, books and/or schematics depending on the training given. All courses are available with certification.

### DRÄGER RENTAL

For many applications and situations, purchasing gas detection or respiratory protection equipment may not be the most efficient or cost-effective solution. The complete range of Dräger products are available for rental. We offer competitive pricing; convenient daily, weekly or monthly terms; expertly maintained equipment; and Rent-to-Own options.

### DRÄGER SUPPORT

Our worldwide experience obtained from many different industries, applications, and environmental conditions are available to all Dräger customers. The Technical Services staff in Pittsburgh can assist you through the challenges and questions you may encounter in your application and recommend the proper equipment for the job at hand.



## Dräger Gas Detection Products



Whether you are entering confined spaces, monitoring employee exposures, determining what level of respiratory equipment is required, or identifying unknown chemicals at a HazMat scene, Dräger has the gas detection equipment you need.

### DRÄGER-TUBES®

The Dräger-Tube® system is the most popular form of gas and vapor measurement in the world. The system is easy to use, produces quick results, and offers the most comprehensive (over 1000) choice of hazards detected. Most Dräger-Tubes® are designed to measure in the TLV range and are used for monitoring employee exposures or selecting the proper respiratory protection. Other tubes measure an entire chemical family and are used for identifying an unknown substance in emergency response situations. Dräger-Tubes® are also used for measuring indoor air quality, contaminants in process gases, fugitive emissions, and in a wide variety of other gas detection applications.



### DRÄGER-CMS®

The Dräger-CMS® is an electronic version of the ever-popular Dräger-Tube®. It consists of a measuring "Chip" and Analyzer. The simple three-step operation and digital display readout of the concentration makes this gas measuring device very easy to use. It can be operated with one hand, and the large switch can be moved while wearing protective gloves. The analysis by Dräger-CMS® is totally automated and consecutive measurements are easy to make.



### DRÄGER PORTABLE INSTRUMENTS

Dräger manufactures a wide range of versatile single and multi-sensor gas measuring devices. These instruments offer continuous and simultaneous detection of toxic and flammable hazards. A digital display informs the user if hazardous levels of gases and vapors are present. Audible, visual and vibrating alarms warn the user of the hazardous concentrations. A variety of accessories complement these world class instruments: smart bump stations, remote sampling pumps, software exposures, cases, and various power supplies.



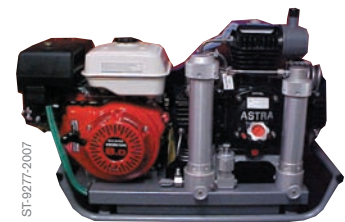
## Breathing Gas Systems



This division of Dräger provides several diverse products and tailor made systems related to respiratory protection equipment.

### DRÄGER BREATHING AIR COMPRESSORS

Fill your SCBA cylinders with our breathing air compressor systems. We offer a range of solutions from portable units to complete fill stations including high-pressure compressors, fragmentation shields, cascade cylinder banks, and control panels. Our 7 cfm and 10 cfm portable compressors are especially popular with small fire stations and dive centers. Our gas and diesel engine models offer air filling capabilities where access to an electrical power supply is limited.



### DRÄGER AIR/GAS FILLING & SUPPLY SYSTEMS

Custom designed installations and trailer-mounted systems are our specialty. We design and install breathing air and gas supply systems for use by fire departments, military, diving operations and a variety of other special applications. Our custom trailer systems have a variety of features such as SCBA bottle filling with air, low pressure air supply direct to airline users, oxygen filling or SCOBA bottles and mix gas supply for diving equipment. Special applications include air supply for protective suit users and "fly-away" containers which can be quickly deployed to remote locations.



### DRÄGER BOOSTER PUMPS

Our compact high-pressure booster pumps are designed to fill your BG 4 and other oxygen or mix-gas apparatus cylinders. One to four cylinders may be filled quickly by these electrically driven pumps. By properly cascading the two supply cylinders, gas can be consumed to a very low residual pressure, leading to cost savings for the user.





### DRÄGER VEHICLE FILTER SYSTEMS

The Dräger vehicle filtration system will protect its occupants from the outside atmosphere by filtering the air and maintaining a positive pressure inside the passenger cabin. Where the Dräger C420 PAPR respirators provide respiratory protection to a single individual, our Vehicle Filter Systems protect up to several occupants inside vehicle. The air systems afford maximum protection for vehicle operators by being independent of the ambient air. Our vehicle filter systems provide protection against wide range of contaminants from toxic to chemical warfare substances.



### DRÄGER TRAINING GALLERIES

Dräger's training systems provide ideal conditions for breathing apparatus users to experience physical and mental stress common to emergency situations in controlled environment.

Dräger training galleries can be supplied as fixed or mobile systems and incorporate obstacles and distracting effects such as smoke, noise and lights. The gallery is set up on a grid system and can be easily reconfigured so the training course is different each time. A control section allows constant monitoring of the trainees' via video cameras and intercom systems.

Dräger Safety Systems is taking firefighter training to a whole new level with the acquisition of Fire Training Systems (FTS) and Swede Survival Systems. Dräger Safety Systems provides the fire service with one source for an entire range of training systems and equipment emphasizing:

- Confidence in their skills and equipment under stressful situations.
- Teamwork built with practice and repetition of skills and tactics.
- Knowledge gained through experience with fire behavior.
- Dräger improves the training experience for all firefighters.



Flash Over Training containers allow firefighters to experience the power of an actual flash over under controlled circumstances.



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