

DRAEGER RESPIRATORY PROTECTION PIONEERING SOLUTIONS



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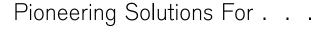
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DrägerService, Gas Detection and BreathingGas Systems







#### 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. Draeger's extensive respiratory program includes air purifying respirators from the Piccola disposable half mask and Picco20 reusable half mask, through to a full range of X-plore<sup>®</sup> 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 heath and safety professionals. Draeger offers a range of supplied air respirators and SCBAs. The Draeger SAR and ALE Lite respirators and 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, Draeger's Airline Supply Systems, ALE Airline Egress Respirator Systems and QuickAir<sup>™</sup> 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.

#### FIRE FIGHTING

Being in one of the most demanding, challenging and dangerous professions, fire fighters require the highest levels of personal protection. Draeger's SCBA is designed for Fire Fighting, Haz-Mat and Search and Rescue applications. With the most up to date self-contained breathing apparatus systems available, Draeger's AirBoss<sup>®</sup> PSS100, AirBoss<sup>®</sup> Evolution, and BG4 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. Draeger provides filter (Parat C), supplied air (QuickAir<sup>™</sup>) and oxygen generating (Oxy K) 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. Draeger's provides a full range of respiratory protection no matter what is your assigned mission. The DefendAir<sup>®</sup> filter escape hoods, the Kareta M military grade mask, the added protection of the C420 PAPR, the highest level protection AirBoss<sup>®</sup> SCBA, and BG 4 closed circuit breathing apparatus for extended operations all meet the challenge of today's first responders.









R55270

DRAEGER SAFETY, INC. INTRODUCES THE NEW X-PLORE® SERIES AIR PURIFYING RESPIRATORS. DRAEGER 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.

#### ORDER INFORMATION

#### Limited Use Half Mask

X-plore® 3300, Small	R55331
X-plore <sup>®</sup> 3300, Medium	R55330
X-plore <sup>®</sup> 3300, Large	R55332

#### Reusable Half Mask

X-plore® 3500, Small	R55351
X-plore <sup>®</sup> 3500, Medium	R55350
X-plore® 3500, Large	R55352

#### Full Face Mask

X-plore® 5500	, Three Sizes in One	
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# Particulate Filters P100 Cartridge 6738012 N95 Filter Pads 6738020 R95 Filter Pads 6738021 Filter Pad Holder, Base 6738038 Filter Pad Holder, Cover 6738039

#### Gas and Vapor Cartridges

Organic Vapors (OV)	6738024
Organic Vapor/Acid Gases (OV/AG)	6738025
Acid Gases (AG)	6738026
Ammonia/Methylamine (AM/MA)	6738027

#### **Combination Cartridges**

6738034
6738035
6738036
6738037



X-plore<sup>®</sup> 3300



X-plore<sup>®</sup> 3500



X-plore® 5500



Experience extreme comfort with the new Draeger X-plore® 3500 reusable half mask cartridge respirator. The specially developed Draeger-Flex® mask material is hypoallergenic, 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 hardhat. 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 Draeger X-plore<sup>®</sup> 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 any one 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, Draeger offers a full line of NIOSH approved cartridges and filters with an exclusive two-point bayonet connector. The new Draeger X-plore<sup>®</sup> 3300 is a limited use half mask respirator. It combines all of the features of the X-plore<sup>®</sup> 3500 while constructed of a soft and durable thermoplastic elastomer (TPE) that provides a comfortable and secure seal for your respiratory protection.

#### X-Plore<sup>®</sup> 3500 Features

- Flexible Nose Seal
- New Draeger Flex Material
- Compact low-profile design
- 3 sizes (S, M, L)
- Dräger Flexi-Fit<sup>®</sup> Head Harness
- "Slide-down" System
- Innovative guided strap system
- Safe and easy bayonet connection



## Piccola





THE PICCOLA DISPOSABLE FILTERING FACEPIECE IS A LEADER IN COMFORT, FIT, AND PROTECTION. THE PATENTED SYNSAFE® FILTER MEDIA COMBINES BOTH MECHANICAL AND ELECTROSTATIC FILTERING FOR AN EXTENDED USEABLE DURATION AND BETTER PROTECTION AGAINST DUSTS AND MISTS WHILE THE LAYERED FILTER MEDIA PROVIDES. THE SOFT INNER LINING IS HUMIDITY RESISTANT TO PROVIDE THE USER WITH EXTREME COMFORT, EVEN WHEN PERSPIRING AND BREATHING HARD.

The Piccola is lightweight and fits the shape of the face. An adjustable nose bridge allows you to custom seal around the nose area. It fits optimally, even when you are wearing protective eyewear. The head harness is a fabric-covered elastic that will not tangle in your hair.

The masks are individually and hygienically packed in a plastic bag and are supplied in a handy dispenser box containing 20 masks. The low profile of the folded design makes it easy to carry with you throughout the day, just tuck it in your shirt pocket.

The Piccola is NIOSH approved in N95 and R95 levels. Inhalation breathing resistance is extremely low and an optional exhalation valve provides even more breathing comfort.

A special version of the Piccola is the Piccodor, it provides N95 protection and contains an activated carbon layer for nuisance level OV/AG/AM relief for concentrations below PELs/TLVs.

#### ORDER INFORMATION

#### Piccola masks are provided in boxes of 20

Piccola N95	6737620
Piccola N95 w/ Exhalation Valve	6737621
Piccola R95 w/ Exhalation Valve	6737622
Piccodor N95 w/ Nuisance Odor Control and Exhalation Valve	6737623

Picco20



## THE PICCO20 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 Picco20 provides a better facial seal when talking making it ideal when clear communication is essential. The head harness is a fabric-covered elastic that will not tangle in your hair.

The P100 or R95 filters feature an enlarged surface with more filtering capability than the conventional disposable filtering facemasks 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 Picco20 very comfortable. The Picco20 is very economical because the larger filter media lasts longer. Unlike disposable filtering facemasks, which a worker will use several per day, the Picco20 will provide a longer duration of protection and reduce filter costs. The larger filter area allows the Picco20 to be used in very dusty environments for a longer period of time.

The Picco20 is NIOSH approved with filters that offer P100 and R95 protection levels against dusts, mists and other airborne particles or aerosols.

Picco20 Mask, Silicone, Size M/L with (5) P100 Filters	R53660
Picco20 Mask, EPDM, Size M/L with (5) P100 Filters	R53665
Picco20 Mask, Silicone, Size M/L with (5) R95 Filters	R54150
Picco20 Mask, EPDM, Size M/L with (5) R95 Filters	R54160

## Single Cartridge System – Panorama Nova and Kareta M



#### Panorama Nova Series

Draeger's exclusive triple sealing edge means that there are actually three sizes in one mask; therefore, the Panorama Nova mask will fit 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 stainless steel speaking diaphragm provides clear communications with others.

The Panorama Nova Masks combine optimum protection and comfort with low maintenance. They can be used in combination with various helmets, communication systems, or chemical protection suits.

#### Kareta M

The Draeger Kareta M mask is designed for use in military, civil defense, law enforcement, and domestic preparedness applications. Constructed of a chemically resistant neoprene, the mask body offers protection against chemical warfare agents and toxic industrial chemicals. The laminated safety glass, dual lens design offers excellent vision in all directions, while allowing the mask to be folded for storage.

#### ORDER INFORMATION

Panorama Standard, CR/NR	R52999
Plexiglas lens & yellow plastic lens frame	
Panorama Nova Basic, EPDM	R53420
Polycarbonate lens, black plastic lens frame, speech diaphragm	
& neck strap	
Panorama Nova RA, EPDM	R51525
Polycarbonate lens, stainless steel lens frame, speech diaphragm	
& neck strap	
Panorama Nova RA, Silicone	R51535
Polycarbonate lens, stainless steel lens frame, and speech diaphragm	

#### See below for available filters. See page 9 for mask accessories.

The standard thread connection accepts NATO NBC (Nuclear, Biological, Chemical) cartridges as well as Draeger NIOSH approved single cartridges and our NBC escape canister. A drinking device connection included that connects to various canteens including the US military canteens.

#### ORDER INFORMATION

Kareta M Mask	R51372
Defense Kit (Kareta mask with NBC Cartridge)	4056865
Particulate Filters	
P100 Cartridge	6737013
Canister Filters	
Phosphine/Tear Gas/P100	6737360
NBC Escape (EN approved)	6736545
NIOSH Combination	4056922

See page 9 for mask accessories.

## Accessories

#### MASK ACCESSORIES ORDER INFORMATION

#### Cleaners/Disinfectants

Cleaners/Disinectants	
Alcohol Free Wipes, Box of 100	4053845
AirKem A-33, Powder, (40) 1/2 oz. packets	4054085
AirKem A-33, Liquid, 1 Gallon	4056523
Anti-fog Solutions, Alcohol Free	
Liquid Gel 50 ml	R52560
Spray 100 ml	R21120
Comming Road	
Carrying Bags	
Half Mask Carry Bag	4055649
Full Face Tactical Mask Bag	4056997
Full Face Bag, Yellow Nylon with Belt Loops	4053847
Full Face Bag, Blue Nylon with Draw String	4055785
Full Face Case, Hard Plastic for Panorama	R51019

#### Accessories for the X-plore® 5500 and Panorama Nova Masks

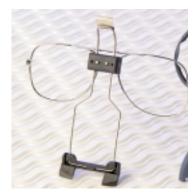
Spectacle Kit, Standard Mount	R51548
Spectacle Kit, Removable Lens Frame (F2 Only)	R53325
Spectacle Kit Altec	4056406
Lens Overlay Protectors, Clear, 25 Each	4055092

#### Qualitative Fit Test Kits

Bitrex™ Qualitative Fit Test Kit	4055625
Irritant Smoke Fit Test Kit	4053844



Draeger offers a variety of mask and filter carrying bags



Draeger's Spektacle Kit



## C420 Powered Air Purifying Respirator (PAPR)

# The Draeger C420 is a high-performance PAPR designed for use by law enforcement, emergency responders, and military personnel on domestic preparedness missions. The standard NIOSH approved combination cartridges 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 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 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.

#### ORDER INFORMATION

C420 PAPR System w/Cartridges w/o Mask	4057038
Masks Available	
CDR 4500	R55440
P-Nova Basic	R53420
P-Nova EPDM	R51525
NBC Filter Cartridges	4056922
Battery Pack, LiSO <sub>2</sub>	4056917
Rechargable Batteries and Chargers Available	

#### NOW APPROVED WITH THE PANORAMA NOVA MASK





## DefendAIR®



The DefendAIR<sup>®</sup> 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 DefendAIR<sup>®</sup> 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 DefendAIR<sup>®</sup> 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<sup>®</sup> can be deployed in the 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<sup>®</sup> hood material, the DefendAIR<sup>®</sup> provides respiratory, eye, and skin protection to the user, regardless of facial hair or prescription lenses.

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 Draeger DefendAIR<sup>®</sup> 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

DefendAIR®, NBC Escape Hood	R54838
DefendAIR®, Training Unit	R55195
Carrying Bag, DefendAir <sup>®</sup>	4056748
Training Video, VHS	4056941
Training Video, CD	4056942

## Parat C



STRUCTURAL FIRES ARE ONE OF THE LEADING CAUSES OF ACCIDENTAL DEATH. MOST PEOPLE WHO DIE IN A FIRE SUCCUMB TO SMOKE INHALA-TION. THE SMOKE PRODUCED IN A STRUCTURAL FIRE CONTAINS PARTICLES, CARBON MONOXIDE, HYDROGEN CYANIDE, AND 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 Parat C will provide 15 minutes 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 Parat C provides protection for people with facial hair, prescriptive eye ware, or long hair.

The 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 Parat C is maintenance free and has a 12-year shelf life, provided the canister is replaced after 6 years. No NIOSH approval is designed for smoke escape hoods, but the Parat C meets the European EN 143 and 403 standards.

#### ORDER INFORMATION

Parat C Hood in soft-sided vinyl case	R53555
Parat C Hood in hard-sided plastic case	R52818
Wall bracket for hard-sided case	R51906
Belt to carry hard-sided case	R53205

## EVACpro<sup>™</sup> for Draeger

The EVAC<sup>™</sup>pro is a patented emergency escape air-purifying respirator developed specifically for the Draeger Panorama Nova, Futura and F2 SCBA facepieces. The EVACpro<sup>™</sup> is designed to assist in an emergency escape should your SCBA run out of air. Quick and easy to use, the EVACpro<sup>™</sup> provides a maximum of 15 minutes of protection depending on gas concentrations from smoke, airborne particles, toxic gases and fumes that are given off in a fire including carbon monoxide.

**ORDER INFORMATION** EVACpro<sup>™</sup> with Storage Bay

Training Unit



## QuickAir™

The QuickAir<sup>™</sup> 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 ware, long hair and beards. The QuickAir<sup>™</sup> is lightweight, easy to carry and can be worn over the shoulder or across the chest.

Able to be donned quickly the QuickAir<sup>™</sup> carrying bag has easy to follow pictograms 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 Quick Air<sup>™</sup> 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

QuickAir™, 5-minute @ 40 L/min (2216 psi)	4055438
QuickAir™, 10-minute @ 40 L/min (3000 psi)	4054954
Storage Case, QuickAir, 5-minute	4055042
Storage Case, QuickAir, 10-minute	4055041





## Oxy K Plus

The 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.

Draeger'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 Oxy K Plus has a service life of 8 years when worn daily on the belt and 10 years in storage.

Oxy K Plus	6302000
Oxy K Plus, 60 Minute Training Unit	6302001
Shoulder/Carrying Strap	6303070

## Personal Airline Systems (PAS)



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

#### ORDER INFORMATION

Colt 5-Minute with Mask, Hansen Brass	4057539
Colt 5-Minute without Mask, Hansen Brass	4057540
Colt 10-Minute with Mask, Hansen Brass	4057541
Colt 10-Minute without Mask, Hansen Brass	4057542
Installed Colt LP SAR Alarm, Hansen Brass	4057538
Additional Fittings Available	



#### PAS Micro - Personal Airline System

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

Micro SCBA Long Hose with Mask	4057530
Micro SCBA Long Hose without Mask	4057532
Micro SCBA Short Hose (with QD) with Mask	4057531
Micro SCBA Short Hose (with QD) without Mask	4057533
Installed Micro SAR with Hansen Brass	4057535

## Supplied Air Respirators



#### SAR - Supplied Air Respirator

Hard work requires rugged and durable equipment. The Draeger SAR is a Type C supplied air respirator for working extended periods in non-IDLH environments. The Draeger modular supplied air respirator products are based on the Panorama Nova Mask. The Panorama facemask combines durability and breathing comfort with safety, reliability, and the versatility that can be used in conjunction with almost all head and body protection systems.

The Draeger SAR comes complete with Panorama Nova Mask (EPDM), lung demand valve, belt assembly, and a brass Hansen quick disconnect plug. It is ideal for use in paint spray booths, construction, abatement or other non-IDLH applications where the airborne concentration of hazards does not permit air purifying respirators.

#### ORDER INFORMATION

Supplied Air Respirator Assembly	4055269
Storage/Carrying Case	4059079

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



#### ALE Lite

The ALE Lite is a combination supplied air respirator and escape SCBA for entering and working in Immediately Dangerous to Life and Health (IDLH) atmospheres. The airline allows for extended work activity while the escape cylinder provides 5 or 10 minutes of emergency escape breathing air. The escape cylinder's low profile does not interfere when entering or exiting tight places. The entire system is modular and easily cleaned or decontaminated.

The ALE Lite is ideal for ILDH or potential IDLH atmospheres typically found in the chemical, petrochemical, Haz-Mat clean-up, and nuclear industries and for confined space entry. The Draeger ALE comes complete with Panorama Nova Mask (EPDM), lung demand valve, harness assembly, escape cylinder and a brass Hansen plug for quick air hose connection/disconnection.

#### **ORDER INFORMATION**

ALE Lite with 5-minute Escape Cylinder	4055260
ALE Lite with 10-minute Escape Cylinder	4055259

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

### Airline Respirators



#### PentAir

The Draeger 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 PentAir uses the 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 Draeger NIOSH approved filter cartridges.

#### ORDER INFORMATION

PentAir, Fixed Flow, w/Panorama Nova Mask	4055168
PentAir, Adjustable Flow, w/Panorama Nova Mask	4055170
PentAir Mask Respirator Kit - Complete	4055192
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 Draeger Pent Air. Contact your local Draeger representative for more information.



#### Portable Air Pumps

Supply your fixed flow PentAir mask or other manufacturer's hoods with the Draeger 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.

Portable Air Pump; Supplies 2 Masks or 1 Hood	4055172
Portable Air Pump; Supplies 3 Masks or 2 Hoods	4055169
Portable Air Pump; Supplies 4 Masks or 3 Hoods	4055166

## Airline Equipment



#### Airline Hose

Maintain the NIOSH certification of your Draeger airline respirators by using approved Draeger Safety airline hose. Choose from heavy-duty or light-duty hoses in lengths from 5 to 100 feet.

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 is 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.

#### **ORDER INFORMATION**

#### Heavy-duty Airline with threaded connections

5-foot length	4059357
25-foot length	4059061
50-foot length	4059062
75-foot length	4054854
100-foot length	4059063

#### Light-duty Airline with threaded connections

5-foot length	4059357L
25-foot length	4059061L
50-foot length	4059062L
75-foot length	4054854L
100-foot length	4059063L



#### Cascade Systems

Draeger Safety 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.

1 cylinder system (up to 3000 psi), without cylinders	4055749
3 cylinder system (up to 3000 psi), without cylinders	4055461
3 cylinder system (up to 3000 psi), with cylinders	4055462







#### K-Kart II

The K-Kart II transports compressed breathing air cylinders to remote locations. Using two 300 cubic foot compressed air cylinders, the 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 K-Kart II. Airline hose can be stored on either a single 300 ft reel or two 150 ft reels.

The 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 Draeger Handy Pak or Rescue Pak.

#### ORDER INFORMATION

K-Kart II w/ 300-foot reel	4055327
K-Kart II w/ 300-foot reel and storage box	4055328
K-Kart II w/ (2) 150-foot reels	4055329
K-Kart II w/(2) 150-foot reels and storage box	4055330
K size Cylinder with valve	4059331
Soft cover for K-Kart	4055621

#### Rescue and Handy Pak

The 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 4 connections for airline respirators. The Handy Pak is lightweight and easily carried, where as 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 Handy Pak and Rescue Pak are ideal for use in confined space entry: like 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

Rescue Pak	4053977
Handy Pak	4053879
Cover for Rescue Pak Only	4055257

See page 29 for available SCBA compressed air cylinders.

## Airline Equipment



Draeger'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 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 Air Filter Panels provide up to 50 CFM of breathing air through 4 airline connections or 100 CFM through 8 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.

Fixed Air Filtration System, 50 CFM	4055356
Fixed Air Filtration System, 100 CFM	4055357
Portable Air Filtration System, 50 CFM	4055563
Portable Air Filtration System, 100 CFM	4055564



## ProAir<sup>®</sup> Evolution NIOSH Approved



The ProAir<sup>®</sup> 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 Panorama Nova Mask with its exclusive three-sizes-in-one design is standard on the ProAir<sup>®</sup> SCBA. The Panorama Nova Mask is also used 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 life time warranty.



#### ORDER INFORMATION

ProAir® SCBA,	4055399
w/30 min. 2216 psi, Aluminum Cylinder	
ProAir® SCBA,	4055739
w/60 min. 4500 psi, Carbon Fiber Composite Cylinder	

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



## AirBoss® PSS 97 Series NIOSH Approved

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

This Draeger 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 resistant to abrasion. The padded waist and shoulder strap are more comfortable in situations where the unit is frequently worn.

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

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



#### 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 Draeger representative for additional information.



## AirBoss<sup>®</sup> PSS 500 Plus NIOSH Approved





The Draeger AirBoss<sup>®</sup> PSS 500 is a revolutionary design in breathing apparatus. It is the first SCBA to take the total weight of the unit off the user's shoulders and back and distribute the weight onto the hips. The unique design of the AirBoss<sup>®</sup> PSS 500 permits the breathing apparatus to move freely with the user, reducing back and shoulder strain.

The unique triple sphere arrangement of the cylinders increases wearer stability and balance by moving the SCBA load closer to the user's natural center of gravity, thereby providing an ergonomic alternative to traditional SCBA. The cylinder sphere pack also provides for a quick and simple cylinder change using the patented Quick-Lock air supply valve. The PSS 500 is NIOSH approved as a 30-minute duration SCBA but offers a full 40 minutes of air making it ideal for any situation where the traditional SCBA just won't do.

The Draeger AirBoss<sup>®</sup> PSS 500 is ideal for the law enforcement, emergency responders and others who need the additional mobility offered by this truly unique design.

#### ORDER INFORMATION

AirBoss® PSS 500 Plus with standard analog gauge	4056836
AirBoss® PSS 500 Plus with Sentinel digital gauge	4056837
AirBoss® PSS 500 Plus with Sphere Pack	4056574
AirBoss® PSS 500 Plus Fill Adapter	3351506

The AirBoss<sup>®</sup> PSS 500 Plus SCBA is available with various installed options. See the SCBA Components and Accessories section for more information. Contact your local Draeger representative for additional information.

## Draeger Safety's Tactical SCBA . . . built for stealth

Draeger Safety's tactical SCBA offers all of the benefits of a fire fighting SCBA without the glitter and whistle. Designed for covert operations the unit is non reflective and silent. The PRISM Heads Up Display provides indication of cylinder pressure as well as acts as the low pressure alarm. A shrouded standard gauge also provides cylinder content information. Nomex shrouds cover shoulder and waist buckles, the metal seat buckle and the quick release on the second stge regulator to eliminate large reflective surfaces. The unit is available with the single piece backplate and the adjustale backplate. Utililizing the same state of the art pneumatics as the AlrBoss<sup>®</sup> Evolution Plus and the PSS100 Plus, the tactical SCBA is available in 2216 psi and 4500 psi.





## AirBoss<sup>®</sup> PSS 100 Plus NFPA Approved **CBRN** Approved



AirBoss® PSS 100 Plus is designed for comfort and performance. The revolutionary adjustable 3-position carbon fiber composite backpack gives the wearer a means to achieve the perfect fit for any torso size or length - quickly and without any tools! This proven design reduces stress on the user, allowing you to focus on the task at hand.

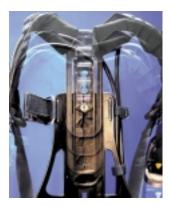
The back plate actually moves with the user! The unique pivot point design allows the back plate to automatically lengthen and pivot with the users movements for true comfort and unrestricted movement. Most of the weight of the SCBA rests on your hips, thus reducing back strain and increasing stability and balance through a lowered center of gravity. This design allows the wearer to work more effectively with less fatigue.

Another revolutionary feature of the AirBoss® PSS 100 Plus is the wireless PRISM® Pressure Information System that continually monitors cylinder content and supplies the information to a Heads-Up Display inside the mask. The AirBoss® PSS 100 Plus also includes the Rapid Intervention Crew Universal Airline Adaptor for rescue of downed fire fighters in compliance to the new NFPA 1981, 2002 edition standard.

The AirBoss® PSS 100 Plus is a combination of proven technology and innovative design that is reliable, comfortable, as well as being easy to use and maintain. All of this is backed by Draeger Safety's industry leading lifetime warranty on the pneumatic system.



Pivoting padded waistbelt allows for unrestricted movement.



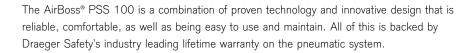
Unique 3-position backplate fully adjusts to fit all torso lengths.







All of this new technology is based on our field-proven high performance pneumatic system that delivers enough air for any situation. This fail-safe system is covered with a lifetime warranty. The Panorama Nova Mask is field proven for fit and comfort. It is the most widely used mask for fire fighters around the world!



#### SPECIFICATIONS AND APPROVALS

NIOSH 42 CFR NFPA 1981 – 2002 Edition NIOSH CBRN



#### ORDER INFORMATION

The AirBoss<sup>®</sup> PSS 100 Plus SCBA is available with various cylinders and installed options. See the SCBA Components and Accessories section for more information. Contact your local Draeger representative for additional information.



Rapid Intervention Crew Universal Airline Coupling (RIC UAC)

## AirBoss<sup>®</sup> Evolution Plus NFPA Approved CBRN Approved

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

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 SCBA includes our new wireless PRISM® Pressure Information System for pressure indications inside the mask and a Rapid Intervention Crew Universal Airline Coupling for rescue of downed firefighters.



With many options and accessories available, the AirBoss® Evolution Plus SCBAs can be tailored to meet your specific needs. Customize the AirBoss® Evolution Plus to your departments needs now or easily add accessories later. Be assured that with Draeger you'll

#### SPECIFICATIONS AND APPROVALS

get the highest quality product available.

NIOSH 42 CFR 84 NFPA 1981 – 2002 Edition NIOSH CBRN

#### ORDER INFORMATION

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



## PRISM<sup>®</sup> Plus

The PRISM<sup>®</sup> Plus Pressure Information System, is a wireless Heads-Up-Display (HUD) that meets the rigorous demands of NFPA 1981-2002 edition. A transducer/ transmitter is located on the high-pressure gauge line and quantitatively measures the air pressure in the SCBA cylinder. 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 PRISM® Plus system.





PRISM<sup>®</sup> Plus In-Mask Display

The wireless feature of the PRISM<sup>®</sup> Plus eliminates connecting wires that are a potential snag hazard. There are no wires, so there is less maintenance to the SCBA. The PRISM<sup>®</sup> Plus 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 range 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 PRISM<sup>®</sup> Plus will operate for approximately 6 months. The PRISM<sup>®</sup> Plus is approved to US and Canadian standards for use in Class I, II, & III, Division 1, Group A-G locations.

The PRISM® Plus Pressure Information System is standard equipment on the all NFPA 1981-2002 Edition AirBoss® Evolution Plus and AirBoss® PSS 100 Plus SCBAs.

## SCBA Components and Accessories



#### AirBoss<sup>®</sup> Sentinel II

The AirBoss<sup>®</sup> Sentinel II is a fully integrated "Life Support Monitoring Device" for fire fighting 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 current cylinder pressure is indicated on a dual analog/digital backlit gauge. The AirBoss<sup>®</sup> Sentinel II automatically calculates and displays real time to low-pressure alarm based on the user's actual consumption rate. Two high-intensity flashing lights and a loud "chirping" alarm are used for the low-pressure warning signal.

All data is recorded and stored within the AirBoss<sup>®</sup> Sentinel II (time/date, cylinder pressure, breathing rate, alarm activation, and thermal absorption temperature) and can be downloaded at a later time.

#### SPECIFICATIONS AND APPROVALS

PASS: NFPA 1982, 1998 Edition Intrinsic Safety: UL/ULc; Class I, Division 1, Groups A-G Power Supply: 9-Volt Alkaline Battery

#### ORDER INFORMATION

The AirBoss<sup>®</sup> Sentinel II is an approved option on the AirBoss<sup>®</sup> Evolution Plus, AirBoss<sup>®</sup> PSS 100 Plus, AirBoss<sup>®</sup> PSS 97, AirBoss<sup>®</sup> PSS 500, and the ProAir<sup>®</sup> Evolution SCBA.



#### Super I-PASS II

For users who do not want the added features of the AirBoss<sup>®</sup> Sentinel II, Draeger offers the Super I-PASS II, a fully integrated Personal Alert Safety System "PASS" that meets the rigorous demands of NFPA 1982 -1998 edition.

This rugged and lightweight (7 oz/220 g) PASS device uses a highly sensitive motion sensor, which eliminates false alarms. A manual panic button can also be used to active the audible and visual warning systems. The Super I-PASS II is available in either waist mounted or over the shoulder versions.

#### SPECIFICATIONS AND APPROVALS

PASS: NFPA 1982, 1998 Edition Intrinsic Safety, (ETL): Class I, II & III; Division 1; Groups A-G Power Supply: 9-Volt Alkaline Battery

#### ORDER INFORMATION

The Super I-Pass II is an approved option for the ProAir® Evolution, AirBoss® Evolution Plus, AirBoss® PSS 100 Plus, and AirBoss® PSS 97.

## PSS<sup>®</sup> Merlin









DRAEGER 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.

DRAEGER HAS AUTOMATED ENTRY CONTROL SYSTEMS TO BECOME A LIFELINE FOR THE BREATHING APPARATUS WEARER, ENSURING THEIR SAFETY BY REMOTELY MONI-TORING FROM OUTSIDE THE INCIDENT THEY ARE ATTENDING.

THE PSS<sup>®</sup> MERLIN<sup>™</sup> 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<sup>®</sup> Merlin<sup>™</sup> is a fully automatic, electronic breathing apparatus control system. Merlin<sup>™</sup> incorporates an entry control board, the AirBoss<sup>®</sup> Sentinel II and a portable remote data module. The system allows the Entry Control Officer to monitor the exact status of up to 12 individual team members simultaneously from outside the incident or hot zone.

#### Advanced Electronic Monitoring

Sentinel II is Draeger's advanced electronic monitoring and signaling device, which combines pressure gauge, temperature monitor, low air warning system and PASS alarm/distress unit into a single instrument. The wearer receives constant status updates from the Sentinel II. The PSS<sup>®</sup> Merlin<sup>™</sup> automatically receives constant updates from the Sentinel II, keeping the entry control officer updated.

#### The 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 PSS<sup>®</sup> Merlin<sup>™</sup> 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 PSS<sup>®</sup> Merlin<sup>™</sup> is continuously updated with the latest status of each team member, the Entry Control Officer can react immediately in an emergency.

The Merlin<sup>™</sup> is robust and designed to withstand the demands of Fire Service wear and tear.

#### Radio Technology

Connection to the Sentinel II from Draeger's dedicated digital remote data module is via the Infra Red port. The cable from the Sentinel II to the remote data module is protected by a flame retardant aramid shroud.

The PSS<sup>®</sup> Merlin<sup>™</sup> and AirBoss<sup>®</sup> Sentinel II are 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. The IR Link on the portble data module transmits data from the Sentinel<sup>®</sup> to the control board outside the incident.

#### Adaptable

The Merlin<sup>™</sup> board is molded with carrying handles for maximum portability and for additional flexibility can also be mounted onto the firetruck.

The PSS<sup> $\circ$ </sup> Merlin<sup>m</sup> can be tailored with software and data can be downloaded from the Merlin<sup>m</sup> board for post-incident analysis.

#### TECHNICAL DATA

Power Supply	Control Board 7.2V rechargeable, Nickle Metal Hydride Radio 6.5V rechargeable, Nickle Metal Hydride	
Weight (approximate)	Control Board	16.5 lbs (7.5 kg)
	Radio Assembly	1.7 lbs. (0.75 kg)
	Sentinel	1.5 lbs. (0.65 kg)
Dimensions (approximate)	Control Board	17.7 x 30.7 x 2.8 in.
		(450 x 780 x 70 mm)
	Sentinel	7.9 x 1.6 x 2.8 in.
		(200 x 40 x 70 mm)
	Remote Data Module	4.3 x 2.8 x 2 in. (09 x 70 x 50 mm)
	Port Unit Antenna	2.2 in. (60 mm)





#### 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 AirBoss<sup>®</sup> 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 Draeger 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 1981-2002 edition AirBoss® Evolution Plus and AirBoss® PSS 100 Plus SCBAs.



#### AirBoss® RIT Lifeguard

Rapid Intervention Teams require specialized and rugged equipment to rescue victims or downed firefighters. The AirBoss<sup>®</sup> 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 AirBoss<sup>®</sup> 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.

4056460

#### ORDER INFORMATION

AirBoss<sup>®</sup> LifeGuard Includes: Carrying Bag, 3 ft. medium pressure version hose with female coupling and first stage pressure reducer (without cylinder) See page 28 for available cylinders

#### For use with the SCBA's RIC UAC:

5 ft. high pressure fill line without gauge	4057070
10 ft. high pressure fill line without gauge	4057069
5 ft. high pressure fill line with gauge	4057068
10 ft. high pressure fill line with gauge	4057067

#### Multi-Link Auxiliary Airline System

Draeger 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.

Multi-Link 40" with pouch installed	4056451
Multi-Link 20" with pouch installed	4056377



## SCBA Components and Accessories

#### Panorama Nova Facemask

Draeger's exclusive triple sealing edge means that there are actually three sizes in one mask, therefore, the Panorama Nova mask will fit all users. The large lens and small 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.

The non-directional plug-in connection allows easy donning of the Draeger Plus LDV pressure reducer. The inhalation valve of the Panorama Nova Mask in conjunction with the exhalation valve eliminates cross contamination of the LDV. The Panorama Nova P Mask can be cleaned and decontaminated without any tools or disassembly.

The Panorama Nova mask (EPDM) is standard equipment on the ProAir® Evolution, AirBoss® Evolution Plus, AirBoss® PSS 100 Plus, AirBoss® PSS 97, and the AirBoss® PSS 500.

#### ORDER INFORMATION

Panorama Nova, EPDM (NFPA 1981-2002 Edition)	4052955
Panorama Nova, Silicone (NFPA 1981-2002 Edition)	4052719
Panorama Nova, EPDM (NIOSH SCBA)	R52972
Panorama Nova, Silicone (NIOSH SCBA)	R53070
Panorama Nova, EPDM with Black Frame (NIOSH)	4057149

Small and large size masks available in April 2005

#### Plus LDV

The 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 Panorama Nova face mask is not subjected to cross contamination.

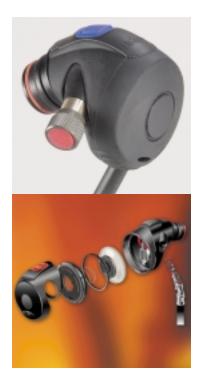
Extremely quiet, the Plus LDV is a positive pressure system that is activated on the first breath. The donning lever allows the LDV to be in a stand-by mode for quick activation when need. Even when wearing gloves, the ergonomic design of the Plus LDV allows the user to easily connect and disconnect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

The Plus LDV is standard equipment on the ProAir® Evolution, AirBoss® PSS 97, AirBoss® PSS 500, AirBoss® Evolution Plus, and AirBoss® PSS 100 Plus SCBA.

Plus LDV with Quick Release Coupling	3338712
Plus LDV without Quick Release Coupling	3338714









#### AirBoss® Harness Suspension System

To compliment the ergonomic back plates of the AirBoss<sup>®</sup> Plus Series of SCBA, Draeger 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 AirBoss<sup>®</sup> 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 fire fighter.

This extremely rugged yet comfortable harness suspension system is standard equipment on the AirBoss<sup>®</sup> Evolution Plus, AirBoss<sup>®</sup> PSS 100 Plus, AirBoss<sup>®</sup> PSS 97, and AirBoss<sup>®</sup> PSS 500 SCBAs.

#### New Integrated Self Rescue Harness for SCBA

Make your SCBA double as a fall arrest harness by replacing the standard waistpad of either the AirBoss<sup>®</sup> Evolution Plus or the AirBoss<sup>®</sup> PSS100 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.





#### Compressed Air Cylinders

Draeger 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 Draeger representative for details.

Cylinder, 2216 psi, 30-minute, Aluminum	4054856
Cylinder, 2216 psi, 30-minute, Carbon Fiber, Full-wrapped	4055701
Cylinder, 4500 psi, 30-minute, Carbon Fiber, Full-wrapped	4055700
Cylinder, 4500 psi, 30-minute, Carbon Fiber, Full-wrapped Cylinder, 4500 psi, 45-minute, Carbon Fiber, Full-wrapped	4055700 4055698



## SCBA Components and Accessories



#### BAcomm

The new BGcomm communication system from Draeger Safety offers advanced communication capabilities when using CCBA's. Incorporating a voice amplifier, Draeger'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. Theamplifier 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 earspeaker with alarge Push To Talk (PTT) button which is easily activated with a gloved hand. A wide variety of radio connections are available.

The new Lapel Microphone /PTT System is also available for use with the BGcomm.

#### ORDER INFORMATION

#### **BAcomm Communication System**

Amplifier Only4056798Radio Interface System4056764(internal microphone, bridge,Earspeaker and PTT4056200Earspeaker no PTT4057504NOTE : Please contact Customer Service for radio specific LapelMicrophone		
(internal microphone, bridge,Earspeaker and PTT4056200Earspeaker no PTT4057504	Amplifier Only	4056798
Earspeaker and PTT4056200Earspeaker no PTT4057504	Radio Interface System	4056764
Earspeaker no PTT 4057504	(internal microphone, bridge,	
	Earspeaker and PTT	4056200
NOTE : Please contact Customer Service for radio specific Lapel Microphone	Earspeaker no PTT	4057504
	NOTE : Please contact Customer Service for radio specific Lapel	Microphone



#### New BAcomm Lapel Microphone

The new lapel microphone 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 BAcomm earspeaker, 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 mandown 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.



Duffel Bag for SCBA



Rigid Orange Case for SCBA

#### SCBA Cases

Draeger 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 from environmental conditions and impact. A wall mount kit for this case is available. The blue cadora nylon duffel bag offers a padded bottom to cushion the SCBA during transit. The duffel bag is perfect for local transport as well as training.

#### ORDER INFORMATION

#### SCBA Cases

002.1 00000	
Rigid Orange for SCBA	4054929
Duffel Bag for SCBA	4054934
Wall Mount for SCBA Case	4054980

#### New 4-Pull Nomex Hairnet

The new 4-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 4-pull adjustment also maintains a better seal and therefore a better fit. Replacement straps are also available.

#### **Drägersorb®**

Drägersorb<sup>®</sup> is used to absorb carbon dioxide  $(CO_2)$  in breathing air for firefighting, resuce and mining applications.

Drägersorb<sup>®</sup> 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.

#### Anti-Fog/Clear Pilot

Anti-Fog is used on any Draeger facepiece where fogging of the lens may be an issue. The Draeger "Open Circuit SCBA" have never been plagued by facepiece fogging due to the Flushing delivery of the air from the Lung Demand. The Draeger Rebreathers, BG-4 or 174 have long used Anti-fog. The long duration and the physical characteristics of exhaled breath have ensured a need for Anti-Fog lens treatment. 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.



### Mask Accessories





Spectacle Kits



#### **CBRN Plus LDV**

Certainty in uncertain times; that's what Draeger Safety offers with its CBRN approved AirBoss<sup>®</sup> Evolution Plus and AirBoss<sup>®</sup> PSS100 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 Draeger 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 Plus LDV with Quick Release Coupling	3352571
CBRN Plus LDV without Quick Release Coupling	3352572

#### ORDER INFORMATION

#### Accessories for the Panorama Nova Masks

Hair Net Head Harness, NFPA	4054930
Hair Net Head Harness, Industrial	4054931
Hair Net Head 4 Pull Harness	4057102
Welding Shield	4053437
Spectacle Kit, Permanent Mount F2	R51548
Spectacle Kit, Removable	4056406
RAPid Adaptor for Draeger Filter Cartridges	4055251
Spectacle Kit Standard Mount	R51548

#### Carrying Bags

Full Face Bag, Yellow Nylon with Belt Loops	4053847
Full Face Bag, Blue Nylon with Draw String	4055785
Full Face Case, Hard Plastic for Panorama	R51019
Full Face Bag, Cordura, Customized (Min 50)	4055290

#### Anti-fog Solutions, Alcohol Free

Liquid Gel 50 ml	R52560
Spray 100 ml	R21120

#### Cleaners / Disinfectants

Alcohol Free wipes, Box of 100	4053845
AirKem A-33, Powder, (40) 1/2 oz. packets	4054085
AirKem A-33, Liquid, 1 Gallon	4056523

## PSS BG-4

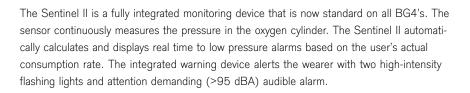


The Draeger PSS BG4 is a closed-circuit breathing apparatus that supplies the wearer with safe breathing air for up to 4 hours in IDLH environments. The closed-circuit design of the BG4 is sometimes referred to as a "rebreather". The exhaled air is passed through a canister that "scrubs" the carbon dioxide 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 BG4 maintains positive pressure in the breathing circuit to protect contaminants from entering into the system.

With its reinforced carbon fiber shell, the BG4 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 BG4 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 BG4 is built on a modular system that allows the breathing apparatus to be easily disassembled, cleaned, replenished and quickly returned to service.





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

The Draeger BG4 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 BG4 meets the needs of the toughest and longest assignments.

#### ORDER INFORMATION

The BG4 is available in various configurations with several options and accessories depending on your application. Contact your local Draeger representative for more information.



## Test Equipment







#### Aerotest Kits

The Aerotest Kits allow you to measure the quality of breathing air on the spot. The kits come complete with Draeger-Tubes<sup>®</sup> for measuring CO,  $CO_2$ , Oil Mist and Water Vapor. There are two 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<sup>®</sup> Pump and Draeger-Tubes<sup>®</sup>.

#### ORDER INFORMATION

Aerotest Simultan Alpha (< 175 psi)	4056747
Aerotest Simultan HP (< 4500 psi)	4055986

#### Zephyr-Air

The Draeger Zephyr-Air Sample Kits enable you to get a complete National Institute Standards and Technology (NIST) traceable laboratory analysis done to your compressed breathing air samples. The 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 Draeger 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

#### FitTester 3000

The 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 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	4057110
FitTester 3000 with printer	4057051

#### **FitTest Adaptors**

40mm Threaded Masks	4056318
Positive Pressure Masks	4056319
X-Plore® Masks	4057023
P100 for threaded & positive pressure masks	4055497

## Test Equipment



#### Positest III

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. 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
- Exhalation valve opening pressure
- Static mask pressure
- Breathing resistance at standard (40 LPM) work- rate
- Breathing resistance at maximum (100 LPM) work-rate
- Bypass 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

#### ORDER INFORMATION

Positest3	4056465
Positest3 Software for Draeger SCBA	4056071



The RZ-50e Test Set is an economical combination test set that analyzes all of the functional parameters and mask leak tightness of the BG4 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 BG4 quickly and easily. The RZ-50e assures the user that the BG4 is ready to safely don and use.

The RZ-50e Test Set tests the following parameters of the BG4:

- Mask Leak Tightness
- Low Pressure Warning Threshold
- Inhalation and Exhalation Valves
- Drain Valve and By-Pass Valve Test
- Positive Pressure Leak Test
- High Pressure Leak Test
- Constant Dosage
- Minimum Valve and Relief Valve Activation
- Complete Monitron System Check

#### **ORDER INFORMATION**

RZ-50e Tester





### DrägerService

LET DRAEGER-SERVICE PROVIDE EXPERT CARE FOR YOUR RESPIRATORY PROTECTION EQUIPMENT. DRAEGER HAS STRATEGICALLY LOCATED SERVICE CENTERS ACROSS NORTH AMERICA IN PITTSBURGH PA, LOS ANGELES CA, HOUSTON TX, MISSISSAUGA ON, MIAMI, FL, SUDBURY ON, MONTREAL QU, EDMONTON AB, AND QUERETARO, MEXICO. SERVICES ARE AVAILABLE AT THESE LOCATIONS OR ON-SITE.

DRAEGERSERVICE SUPPORTS WITH A FULL RANGE OF TECHNICAL SERVICES INCLUDING FLOW TESTING, HYDROTESTING, CYLINDER FILLING, 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.

#### Training

The best safety equipment is only as good as the knowledge of those who use it. Let Draeger 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.

#### 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 Draeger Safety products are available for rental. We offer competitive pricing; convenient daily, weekly or monthly terms; expertly maintained equipment; and Rent-to-Own options.

#### Support

Our worldwide experience obtained from many different industries, applications, and environmental conditions are available to all Draeger customers. The Respiratory Protection Product Management 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.



## 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 HAZ-MAT SCENE, DRAEGER HAS THE GAS DETECTION EQUIPMENT YOU NEED.

#### Draeger-Tubes®

The Draeger-Tube<sup>®</sup> 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 Draeger-Tubes<sup>®</sup> 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. Draeger-Tubes<sup>®</sup> are also used for measuring indoor air quality, contaminants in process gases, fugitive emissions, and in a wide variety of other gas detection applications.

#### Draeger-CMS®

The CMS is an electronic version of the ever-popular Draeger-Tube<sup>®</sup>. 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 CMS is totally automated and consecutive measurements are easy to make.

#### Portable Instruments

Draeger 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 hazard that is present. Options like remote sampling pumps, a variety of carrying cases, software to document exposures, and different power supplies are available to meet your exact requirements.









THIS DIVISION OF DRAEGER PROVIDES SEVERAL DIVERSE PRODUCTS AND TAILOR MADE SYSTEMS RELATED TO RESPIRATORY PROTECTION EQUIPMENT.

#### 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.







#### 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.

#### **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.







#### Vehicle Filter Systems

The Draeger 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 Draeger 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.

#### **Training Galleries**

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

Training galleries can be supplied as fixed or mobile systems and incorporate obstacles and distracting effects such as smoke, noise & 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.

Draeger Safety Systems is taking firefighter training to a whole new level with the acquisition of Fire Training Systems (FTS) and Swede Survival Systems. Draeger 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
- Draeger improves the training experience for all firefighters.



of an actual flash over under controlled circumstances.

DRAEGER SAFETY, INC. 101 Technology Drive

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Fax 1-877-794-3807

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FLORIDA SERVICE CENTER 8000 North West 31st Street Suite 20 Miami, FL 33122 Tel 1- 305-716-7617

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