



CIRES

Advanced Performance Respiratory

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Our *INNOVATION* timeline



About Us

We are experts in respiratory protection for extreme environments.

Throughout our history we have been dedicated to the development of advanced solutions to protecting life. Our current range includes some unique products that have been developed specifically for the industries we serve.

We focus on the following extreme environments:

- Hazardous Gases
- Explosive Areas
- Confined Space
- Marine
- Fire Fighting
- Military

Our product ranges includes:

- Negative Pressure
- CBRN
- Escape Hoods & EEED
- Fresh Air & Airline
- SCBA
- PAPR & Gas Monitors

As well as providing industry leading solutions we also have an inhouse network of service and maintenance technicians. This enables us to provide a global onsite presence in over 3 continents worldwide.



Negative Pressure



Full face masks complying with EN 136, for use with dust, gas and combined filters with threaded fitting EN 148/1 (DIRIN series). Only C 702 and C 607 Twin have instead a double fitting to be used with a couple of filters Series 200.



C701

The mask is certified as class 3 according to EN 136 (maximum mechanical, heat and flame resistance). For use with particle, gas and combined filters equipped with EN 148/1 threaded connection.

- *Innovative Inspiration System*
- *Panoramic Visor*
- *Half Mask and Face Seal in ThermoPlastic*
- *Comfortable 5-Point Harness*

Available in 6 Colours (Red, Olive Green, Aquamarine, Orange, Black & White)



C702

The mask is certified as class 3 according to EN 136 (maximum mechanical, heat and flame resistance). For use with a couple of particle, gas and combined filters SERIES 200.

- *Innovative Inspiration System*
- *Panoramic Visor*
- *Half Mask and Face Seal in ThermoPlastic*
- *Comfortable 5-Point Harness*

Available in 6 Colours (Red, Olive Green, Aquamarine, Orange, Black & White)



Sfera

Extra Wide view full face mask. Multipurpose connector and accurate weight distribution. A wide FOV covers 85% of natural field. Full face polycarbonate visor with a high impact resistance, completely free from distortions. The visor has an anti-scratch coating and a good resistance to acids. Resistance to flame and radiant heat: the mask is self-extinguishing and retains its protective capacity even after such severe tests.

CBRN





C21 CBRN MASK

Full face mask complying with the requirements of UNI EN 136 (CL3) and developed by the CBRN school and by the special departments of the Italian army.

For use with filters with STANAG threaded connection. The mask provides 24-hours of continuous protection against CW agents based on stringent military test methods and is impermeable to all biological agents.

Excellent protection against a wide range of TICs.

- Polycarbonate visor
- Face Seal in Bromine Butyl Rubber
- Central Phonic Capsule to amplify Voice
- External communication system can be connected to the mask.



IDEA CBRN MASK

Full face mask complying with the requirements of UNI EN 136 (CL3), for use with filters with STANAG threaded connection.

The mask provides 24-hours of continuous protection against CW agents based on stringent military test methods and is impermeable to all biological agents.

Excellent protection against a wide range of TICs.

- Polycarbonate visor
- Face Seal in Bromine Butyl Rubber
- Excellent voice transmission thanks to the frontal position of the speech diaphragm.
- External communication system can be connected to the mask.

ESCAPE DEVICES



In the event of unexpected and sudden presence of toxic substances serious damage could occur due to the creation of an environment where persons in the vicinity could be breathing contaminated air. The immediate use of protective devices can provide users breathable air (provided the oxygen level in the environment is enough). The sooner a user dons the device, the more protection provided.



esCAPE

an escape device with filter that protects respiratory organs, eyes and face against hazardous substances and smoke developed in the event of fire. esCAPE, fitted with a mouthpiece and a hood, allows a high degree isolation of the wearer in a contaminated environment. The combined filter protects the user from P2 dusts, acrolein, HCl, HCN and carbon monoxide also in high concentrations (until 10000ppm of CO). All materials are heat and flame resistant, and grant the device a high impact resistance. The use is simple and intuitive:

- *This device is for a single use only.*
- *The duration of esCAPE is 15 minutes.*



Navy Cap EEBD

Sekur Navy Cap is a hood type, constant flow, breathing apparatus to escape from areas in which toxic substances or oxygen deficiency may occur. Easy donning for quick escape. SNC complies with EN 1146 and ISO 23269-1. Compliant to MED Directive.

- *Models available: 10 minutes duration and 15 minutes duration. The first one utilizes a 2 L, 200 bar steel cylinder whereas the 15 minutes apparatus uses a 3 L, 200 bar steel cylinder or 2 L 300 bar composite cylinder.*



Navy Mask EEBD

Navy Mask EEBD is an insulating escape device equipped with a full face mask and a demand valve and is certified for 15 minutes duration.

The pressure reduction is fulfilled in the pneumatic circuit thanks to the presence of two elements called first stage, or pressure reducer, and second stage or demand valve.

In NM the first stage is integrated in the cylinder valve so that the first stage and the valve are one object only. This solution provides a lot of benefits as to simplicity and lightness. NM can be used as an escape device or as Airline back-up device through the SWOV automatic switch over valve. Complying with EN 402 and ISO 23269-1. Compliant to MED Directive.

- *Models available: 15 minutes duration, with 3 L, 200 bar steel cylinder or 2 L 300 bar composite cylinder.*

Fresh Air & Airline



Ideal for confined space and low oxygen environments, our portable air supply "Airline" system allows you to provide respiratory protection in all environments. Our two-cylinder can be configured with a wide range of options which allows you to select the correct cylinder capacity, hose length, and connection to supply a second operator. The system has two cylinders which can be selected from the below.



DIABLO 8000/2



Two-cylinder trolley, compact, consisting of one metal framed trolley, complete with a second inlet, handles and a carrying case containing a full face mask (C607 SP/A or SFERA SP/A), a demand valve AP/A-L (automatic) and a belt with buckles; a revolving spool with 50 m hose NL 8 X 17 (resistant to oils and solvents) with swivelling pneumatic connection and quick couplings; one pressure reducer DIABLO C2000, complete with pressure gauge, warning device, connectors to cylinders by means of steel coil wrapped hose; two-outlet manifold according to EN 144-2 for independent cylinder refill on the trolley; a quick release coupling for connection to the revolving spool.

Fitted with 2 cylinders 18 L 220 bar or 2 steel cylinders 6 L 300 bar or 2 composite cylinders 6,8 L/9 L 300 bar.

Cylinders, as well as the pneumatic circuit necessary for the reduction of the high pressure, are mounted on a trolley equipped with rubber wheels. This equipment assures the highest protection level of the respiratory tracts, thanks to the positive pressure. Besides, the swivel connector on the air supply prevents interruption during winding and unwinding of the hose on the reel.

- Complying with EN 14593-1.



Cylinders Diablo 8000/2

- Composite cylinder with aluminium liner - 6,8 L x 300 bar DIN, limited life 15 years (LL15)
- Composite cylinder with PET liner - 9 L x 300 bar DIN, unlimited life(NLL)
- Steel cylinder - 18 L x 220 bar - head valve to EN 144
- Steel cylinder - 40 L x 200 bar - head valve to EN 144



Second Operator Equipment

Second operator equipment consisting of: one metal framed trolley, with two rubberized wheels, a carrying case containing a full face mask SFERA SP/A, a demand valve AP/A-L (automatic), a belt with buckles and a connection hose NL 8x17 with quick release couplings (for connection to the second inlet of the main trolley); revolving spool with 50 m hose NL 8X17 with swivelling pneumatic connection and quick couplings

SCBA



Our SCBA range includes self-contained open circuit breathing apparatuses with full face mask and demand valve, in compliance with EN 137. The **Advanced** and **Industrial** are Type 1, for general use, and also available in the Type 2 version, which positively passed the flash-over test.

This test involves an exposure of the device to heat and flame for 10 seconds at 900°, followed by a drop. During and after the test the apparatus continues to work granting positive pressure inside the mask and maintaining self extinguishing feature. The **Advanced** (Type 1) and **Industrial** (Type 1) breathing apparatus are available, on request, for use in a potentially explosive atmosphere. The **Industrial MM** breathing apparatus is also MED (for naval use).

Capacity:



Type 1
Industrial



Type 2
Firefighting

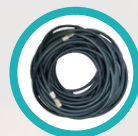


ATEX

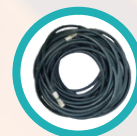
Cylinder



6 L x 300 bar
Steel



6.8 L x 300 bar
Composite



7 L x 200 bar
Steel

Black shoulders with yellow-printed name “DIABLO” identify a type 1 SCBA.
Black shoulders with red-printed name “DIABLO” identify a type 2 SCBA



Diablo Advanced



- *Anatomic Back-Pack made of self-extinguishing synthetic resin.*
- *Body harness made of a self-extinguishing composite textile.*
- *Compensated pressure reducer C2000®, which allows a free flow of more than 1000 l/min.*
- *Chest block, compact and light, connected to a flexible hose, including pressure gauge and warning whistle.*
- *Pressure gauge extremely user-friendly, thin and light.*
- *Two hoses only, for medium and high pressure, easy to maintain and replace.*
- *Single-stage type warning acoustic whistle, fitted with a self-test device.*
- *The Demand valve is of the self-positive type, i.e. it is in a standby mode and switches automatically to positive pressure at the first breath without any waste of air. Available with both threaded connector M45x3 or plug-in.*
- *Positive Pressure full face mask C607 SP/A, SFERA SP/A and IDEA SP/A, made of either EPDM or Silicone rubber.*
- *Moreover, DIABLO ADVANCED is available in three additional configurations which allow the connection to a second operator (OUT), a second source (IN) or to both (IN&OUT).*

Diablo Industrial MM



- *The light weight and mechanically resistant carrying frame, is made of self extinguishing fibre glass reinforced synthetic resin and is designed in order to ergonomically fit the shape of the body.*
- *The harness is made of self-extinguishing synthetic woven fabric.*
- *The buckles are flame resistant and quickly adjustable.*
- *In the C2000/2 balanced type pressure reducer (patented) the number of moving components was reduced by 50%. The result is an exceptional response time, an extremely compact medium pressure cycle, smooth breathing and overall performance stability. The pressure gauge is connected to the pressure reducer through a high pressure hose.*
- *The audible warning device is mounted on the pressure reducer. It is of the two-stage-type, i.e. activated by high pressure and operated by medium pressure. Its unique design also allows an automatic testing of the correct functioning (patented).*
- *The demand valve is of the self-positive type, i.e. it is in a standby mode and switches automatically to positive pressure at the first breath without any waste of air. Available with both threaded connector M45x3 or plug-in.*
- *Full face masks C607 SP/A, SFERA SP/A and IDEA SP/A available in EPDM or Silicone rubber.*

PAPR (Cleanspace)



Cleanspace CST Ultra



CleanSpace ULTRA is the latest addition to CleanSpace Technology's range of advanced respiratory protection products: designed for industrial use where water tolerance is required (IP Rating 65). CleanSpace ULTRA is a powered air purifying respirator (PAPR) that offers superior protection against dust and gas airborne hazards; with no hoses or heavy waist-mounted battery packs making it the most comfortable and easiest PAPR in the market. Features AirSensit™ technology and connectivity.

- Minimum 12 Hour Battery Life
- 230 L/min Peak Airflow
- Fully approved: NIOSH, CE, UKCA and AS/NZS1716
- Optimized Fan Acoustics for Clear Communication.

Cleanspace CST Ultra



CCleanSpace PRO is a new addition to CleanSpace Technology's range of advanced respiratory protection products. Designed for industrial use, the CleanSpace PRO is a powered air purifying respirator (PAPR) that offers superior protection against dust and gas airborne hazards; with no hoses or heavy waist-mounted battery packs making it the most comfortable and easiest PAPR in the market. Features AirSensit™ technology and connectivity.

- Minimum 12 Hour Battery Life
- 230 L/min Peak Airflow
- Fully approved: NIOSH, CE, UKCA and AS/NZS1716
- Optimized Fan Acoustics for Clear Communication.

Cleanspace EX (ATEX)



The gold standard in Personal Protection for people working in potentially explosive environments. CleanSpace EX is Intrinsically safe (ATEX)

- 8 Hour Battery Life
- 220 L/min Peak Airflow
- Fully approved: NIOSH, CE, UKCA and AS/NZS1716
- Particulate and Combined Gas Filters P3 to ABEKP3



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