



# CIRES

Advanced Performance Respiratory

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# FM-2



# FM-2

Filtered Mask certified to class 3 according to EN 136 (maximum mechanical, heat and flame resistance)



## Main Components:

### Innovative inspiration system:

- With rectangular inhalation valve and absence of non-return valves, which ensures excellent anti-fog, ensuring a minimum level of breathing resistance

### Panoramic Visor:

- Optical class 1 (EN 166), ensures a wide field of vision, without optical distortions.
- Ballistic resistance (STANAG 2920).
- Available with anti-scratch treatment.

### Half Mask & Face Seal in Thermoplastic:

- Excellent adaptability to different facial conformation
- Hypoallergenic material

### Comfortable 5-Point Fixed Harness:

- Available in EPDM or 3D fabric (interchangeable)

## Materials

- Face Seal: Thermoplastic Rubber
- Inner Half Mask: Thermoplastic Rubber
- Visor: Polycarbonate
- Connector: Polyamide (PA)
- Harness: EPDM or 3D Plastic

## Weight:

- With EPDM Harness: 650g
- With 3D Harness: 620g



Comfort



Sturdiness



Panoramic  
View



Ergonomics



Easy  
Maintenance



# C-21





# C-21

Full face mask complying with the requirements of UNI EN 136 (CL3).

## Main Components:

- For use with filters with STANAG threaded connection.
- Excellent protection against a wide range of toxic industrial chemicals.
- C21 CBRN full face mask can be used with Dirin 230 ABEK2 Hg P3 and Dirin 500 A2B2 P3 NBC, combined filters with STANAG threaded connection.
- CBRN protection.

## Visor:

- Wide field of vision
- Optical class 1
- High ballistic resistance
- Anti-scratch treatment and resistance to chemical agents
- Reduced distance from the eyes to make it perfectly integrable with optical instruments, corrective lenses, aiming systems, individual and department armament.

## Inhalation & Exhalation System:

- Side inhalation and exhalation connector with reduced dimensions to optimize the cheek weld
- Patented system for reversing the side vents to fit left and right handed shooters
- Air intake connector with safety system preventing air from entering while replacing the filter
- Reduced respiratory resistance
- Excellent demisting properties.



## Comfort & Easy Donning:

- 6-point harness, available either in rubber or 3D fabric
- Comfortable fit for all facial shapes and sizes
- Compatibility with all helmet types
- Outer surface avoiding stagnation of chemical agents and making decontamination easier
- Quick and easy donning.

## Features:

- Central phonic capsule to amplify voice
- Vision correction system

# EDH-15





# EDH-15

Escape hood with filter that protects vital respiratory organs.



## Main Components:

- The hood is made of a thin polyimide film, resistant to heat, high temperatures and flame. Its special colour let wearers be visible even in the presence of smoke. The transparency of the hood allows a distortion- and aberration-free vision. All materials are heat and flame resistant, and grant the device a high impact resistance.
- EDH-15 is an escape device equipped with a mouthpiece and a nose clip, that allow a high degree isolation of the wearer in a contaminated environment.
- Recommended to be used to protect respiratory organs from dust, gases and vapours, which may be given off in the event of fire. The combined filter protects the user from P2 dusts, acrolein, HCl, HCN and carbon monoxide also in high concentrations (until 10000ppm of CO). The protection against particles, gas and vapours is guaranteed for 15 minutes. This device is for a single use only.
- Total weight is of about 500 grams.

## Storage:

- EDH-15, in its original packaging, can be stored in environments with temperature between 0°C and 50°C, also in the presence of humidity.

## Shelf Life:

- Shelf life of EDH-15 is 6 years, that can be extended by 6 more years after replacing filter and rubber components.

## Performances



Lightness



Adaptability



Easy Donning



Sturdiness



Shelf Life

# ENIM-1





# ENM-1

Insulating escape device equipped with a full face mask



## Main Components:

- ENM-1 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. The light harness is easy to use, clean and decontaminate.
- In ENM-1 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. ENM-1 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.

## Advantages:

- Instruction pictograms
- Red antistatic bag with shoulder strap
- Comfort and visibility
- Full face mask, 2 models available
- Tear-off seal to prevent tampering

## Applications:

ENM-1 is a versatile safety solution designed for marine, petrochemical, industrial, and chemical-pharmaceutical industries. It ensures the safety of crew members, workers, and personnel in emergency situations. With its robust design and innovative features, the ENM-1 offers reliable escape capabilities and peace of mind in challenging environments. Whether at sea, in hazardous petrochemical plants, or high-risk industrial settings, the ENM-1 is the trusted choice for ensuring the well-being of individuals.

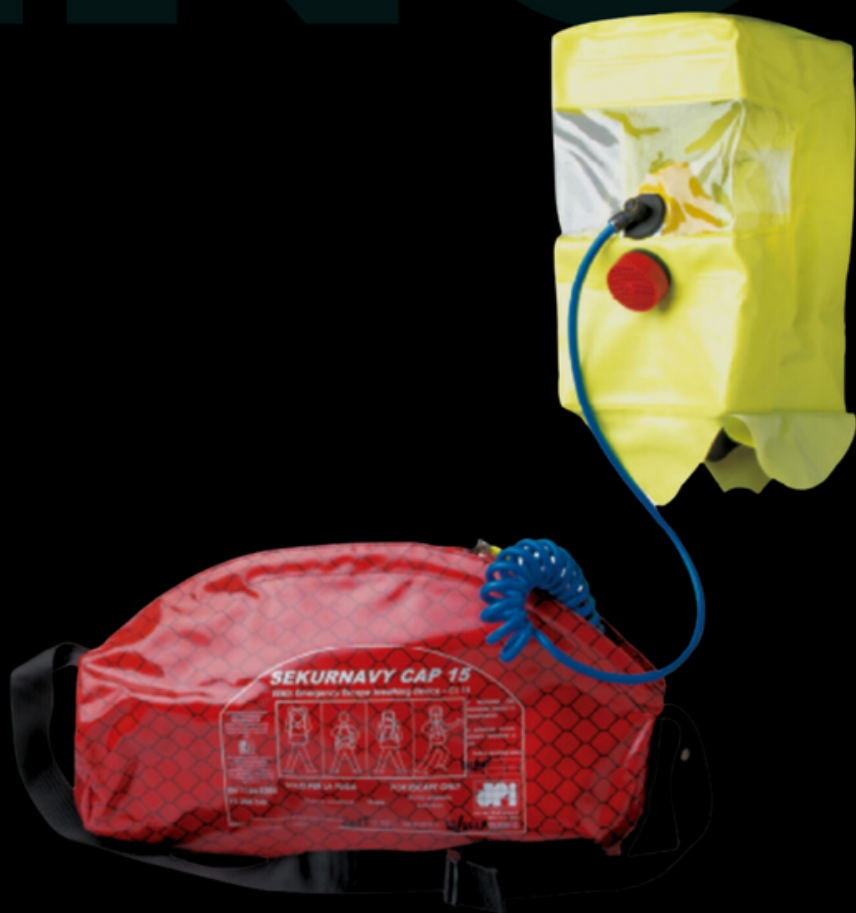
## Materials:

- Full face mask: EPDM
- Visor: Polycarbonate
- Inner half mask: Silicone
- Carrying bag: Coated fabric
- Valve/Reducer: Hot pressed nickel-plated brass alloy
- Cylinder: steel or composite

## Weight:

- Product ready to use (with steel cylinder) - **7 kg**
- Product ready to use (with composite cylinder): **4.7 kg**

# ENC-1





# ENC-1

Insulating constant flow hooded rebreather.



## Main Components:

- Continuous flow compressed air breathing apparatus with hood, automatic activation of the air flow upon opening the zip of the bag containing 2 or 3 liter steel or composite cylinder and hood in self-extinguishing material.
- On the bag there is a transparent screen for checking the cylinder pressure gauge and correct positioning of the air flow activation pin during inspections before use.
- The nominal duration of the device is 10 or 15 minutes (2 Models Available).



## Advantages:

- Internal silicone half mask to limit CO<sub>2</sub>
- Exhalation valve with high reliability
- Automatic activation when the bag is opened
- Tear-off seal against any tampering
- Flexible handle for easy donning
- Pictograms for ease of use
- Red antistatic bag with shoulder strap
- Comfort and visibility

## Cylinders:

ENC for 10 minutes uses a 2-litre steel cylinder at 200 bar.

15-minute ENC uses a 3-litre steel cylinder at 200 bar or a 2-litre composite cylinder at 300 bar.

The cylinders are CE marked in accordance with the PED Directive.

## Models Available

ENC-1 - 10 Min

ENC-1 - 15 Min

ENC-1 - 15c

## Applications:

ENC-1 is a versatile safety solution designed for marine, petrochemical, industrial, and chemical-pharmaceutical industries. It ensures the safety of crew members, workers, and personnel in emergency situations. With its robust design and innovative features, the ENC-1 offers reliable escape capabilities and peace of mind in challenging environments. Whether at sea, in hazardous petrochemical plants, or high-risk industrial settings, the ENC-1 is the trusted choice for ensuring the well-being of individuals.

# ULTA





# ILT-1

Type 1 SCBA complying with EN137  
for general use.



## Main Components:

- 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.
- Light harness easy to use, clean and decontaminate.
- Grey shoulders with yellow-printed name “DIABLO” identify a Type 1 SCBA;
- 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. 2 models available: E400 and E550 demand valve, 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.

## Certifications:

The ILT-2 complies with EN 137 and the Regulation EU 2016/425

# AL-01



# AL-01

Isolating compressed air breathing apparatuses equipped with large capacity cylinders.

## Description

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 50m hose NL 8 x 17 (resistant to oils and solvents) with swivelling pneumatic connection and quick couplings; one pressure reducer 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.

## 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.





# CST-PRO



# CST-PRO

Powered Air Purifying Respirator



## Description

The CST-PRO Power Unit is a powered air purifying respirator (PAPR) when worn together with the following compatible items:

- A CST Full Face Mask (CST1017, CST1018),  
OR
- CST Half Mask and Head Harness (CST1034, CST1035, CST1036), and
- A range of CST particulate and gas/vapour filters.

Suitable for use in environments which require respiratory protection against airborne biohazards, particulates, dust, gas and vapours.

This device is Bluetooth™ enabled and able to connect to the Smart App.

## Applications:

- Suitable for environments which require respiratory protection against airborne biohazards, particulates, dust, gas, and vapours.
- Examples: Welding, Woodworking, Manufacturing, Smelting, Construction, Transportation, Recycling Plants, Emergency Services, Mining, Agriculture, Processing Plants, Grinding.
- CST PRO respirators are NOT suitable for asbestos removal, applications where decontamination showers are used or intrinsically safe certified operations.

## Features:

- Lightweight, compact and comfortable
- One power button for simple operation
- AirSensit™ Technology:
  - Mask pressure control and breath responsive airflow
  - filter life management
  - battery life management
- Intelligent Management Filter Technology (IMFT): filter life optimization and real-time insights
- Mask-release and adjust buttons suitable for gloved hands
- Long run time and short battery recharge time
- Compatible with CleanSpace Smart App (available at Google Play and Apple App stores)

# CST-ATX





# CST-ATX

Powered Air Purifying Respirator



## Description

The CST-ATX Power Unit is an intrinsically safe battery-powered, positive pressure air-purifying respirator (PAPR). The CST-ATX is suitable for use in certain ignitable or potentially explosive atmospheres where there is a risk of explosion.

It is suitable for particulate and gas applications. The CST-ATX respirator can be used with Half Masks (PAF-0033, PAF-1010, PAF-0027) and Full Face Masks (PAF-1014). The Power Unit is compatible with the full range of standard Particulate (P3) and Combined Gas filters and pre-filters.

## Applications:

- The CST-ATX is well-suited for a diverse range of industries and applications. It is ideal for welding operations, woodworking activities, and various manufacturing processes. In smelting operations and construction sites, where hazardous gases like methane are prevalent, the CST-ATX provides a "Very High" equipment protection level (Ma) and level "ia" ignition protection. It is also suitable for use in recycling plants, emergency services, mining operations, and agricultural environments.
- The CST-ATX offers reliable protection in processing plants and is well-suited for tasks involving grinding. With its advanced safety features and adherence to stringent standards, this respirator ensures the safety and well-being of workers across multiple industries.

## Features:

- Intrinsically safe
- Light weight and comfortable
- High visibility yellow casing for easy recognition
- AirSensit System™ for mask pressure control and breath responsive airflow
- One-button system and standby and auto-start/stop mode for quick don/doffing
- Easy to use support harness
- Altitude compensated filter blocked detection
- Long operating time: up to 8 hours and quick battery recharging: < 2hours
- Easy and accurate flow capability check



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