



**CleanAIR<sup>®</sup>**

work hard . breathe easy

# ***Rescue and Defence***

[www.clean-air.cz](http://www.clean-air.cz)





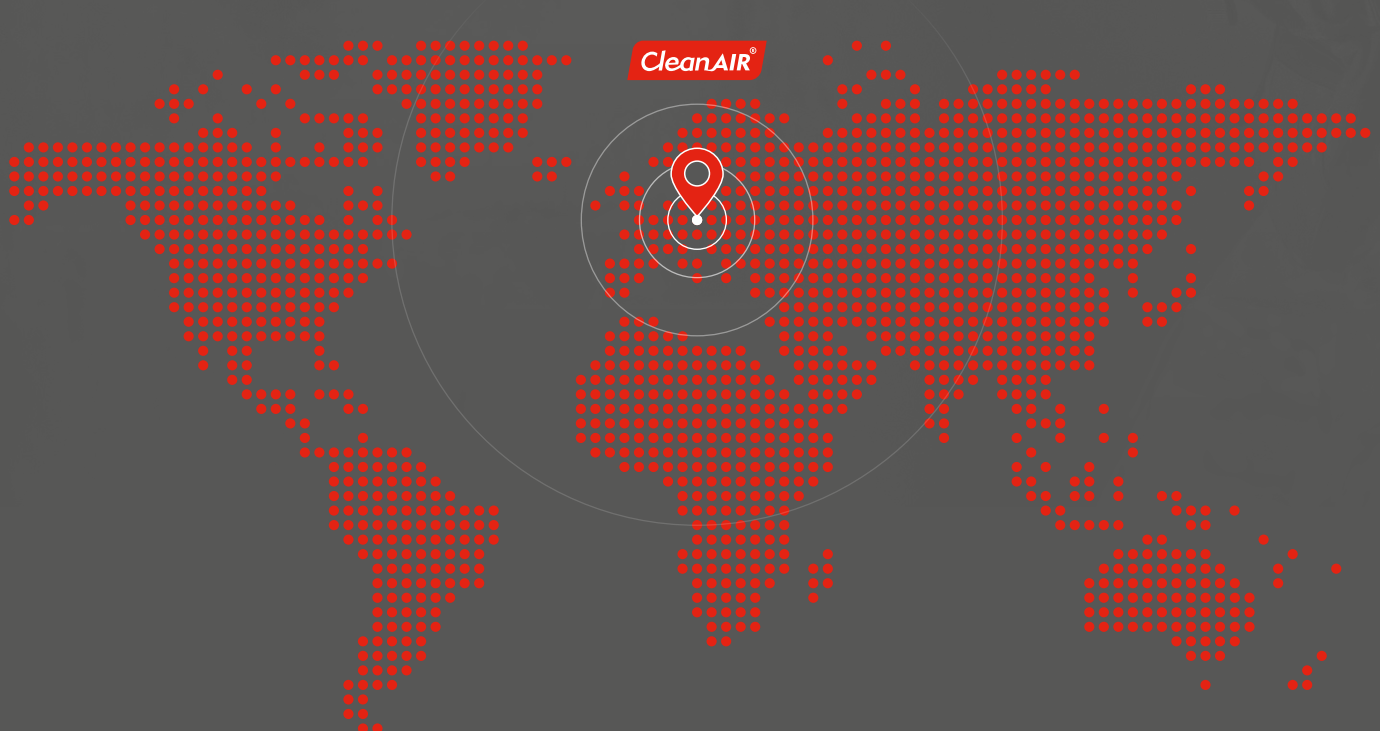
**CleanAIR®**

## ***CleanAIR – Advanced Respiratory Protection for Professionals***

With over 30 years of expertise in respiratory protection, we provide cutting-edge solutions for civil defence, law enforcement, police, and emergency responders.

Our in-house development and manufacturing facilities in the Czech Republic include proprietary production of protective filters, powered air-purifying respirators (PAPR), and all textile components, ensuring complete control over quality and performance. Certified to ISO 9001 and AQAP 2110, we meet the highest industry standards.

Our full in-house production capabilities allow us to deliver reliable, high-performance respiratory protection for professionals working in demanding environments.



MADE IN THE CZECH REPUBLIC

# Respiratory Protection for the Military & Defence

## **Chemical 2F Tactical**

Powered air purifying  
respirator



Compact, lightweight, yet highly durable powered air-purifying respirator (PAPR) designed for professionals operating in hazardous and high-risk environments.

→ Page 4

## **2F MedicAER**

Powered air purifying  
respirator



Powered air purifying respirator specially designed for protection of healthcare workers, emergency teams or other professionals facing biological and viral contamination.

→ Page 5

## **CM-6**

Full face mask



Protective Mask designed for superior respiratory protection in hazardous environments. Engineered for maximum safety and comfort.

→ Page 6

## **AS90**

Full face mask



Protective Mask is built for high-performance respiratory protection in demanding conditions. Combining cutting-edge design with user comfort.

→ Page 7

## **CA-12**

Resistant hood



An extremely chemically resistant hood, suitable for combination with a protective suit.

→ Page 8

## **Panoramate Lite**

Protective coverall



Exceptional full body and respiratory protection for highly contaminated environments.

→ Page 9

## **Filters**



Wide range of filters suitable for various applications, including options designed for the most demanding conditions.

→ Page 10

# Chemical 2F Tactical

## Advanced Respiratory Protection for Extreme Environments



**The CleanAIR® Chemical 2F Tactical is a compact, lightweight, yet highly durable powered air-purifying respirator (PAPR) designed for professionals operating in hazardous and high-risk environments. With exceptional chemical resistance and increased ingress protection, it ensures reliable protection in industrial, emergency response, and defence applications.**

Built for demanding conditions, its smooth, decontamination-friendly surface allows for easy cleaning by shower or even full immersion. The automatic filter closing system prevents contamination during filter replacement, while the Smart Flow Control system maintains a constant airflow, ensuring consistent protection regardless of filter clogging or battery charge.

The full-color display provides real-time system monitoring, and audiovisual alarms signal when battery or filter replacement is required. With the optional Heavy Duty battery, users benefit from up to 16 hours of continuous operation, making it ideal for long shifts and extended deployments.

The CleanAIR® Chemical 2F Tactical is a versatile and robust respiratory solution for professionals in defence, law enforcement, emergency response, chemical hazard zones, and civil protection. Built for reliability in demanding environments, it delivers uncompromised safety and performance when it matters most.

### Key Features & Benefits:

- Compact and lightweight
  - Easy to wear and integrate with protective gear
- Compatible with hoods, masks, and ventilated suits
  - Adaptable for various applications
- High mechanical and chemical resistance
  - Suitable for hazardous environments
- Advanced decontamination capability
  - Rated IP64/IP65/IP68 for shower or full immersion cleaning
- Smart Flow Control system
  - Ensures constant airflow under all conditions
- Extended operation time
  - Up to 16 hours with Heavy Duty battery

### Typical Usage Areas:

- For professionals in defence
- Law enforcement
- Emergency response
- Chemical hazard zones
- Civil protection.



# 2F MedicAER®

Powered air purifying respirator



**Powered air purifying respirator specially designed for protection of healthcare workers, emergency teams or other professionals facing biological and viral contamination**

The construction allows easy decontamination in a shower or even an immersion disinfection.

The unique automatic closing system reduces the risk of unwanted contamination of the unit while the filters are being changed.

Full colour display clearly shows all the relevant information needed.

The optional high capacity Li-Ion battery significantly extends run time up to 16 hours. No more necessary to change or re-charge battery during long shifts including combination with gas and vapour filters.

Available with Non rechargeable one-time use battery with guaranteed 10 years storage time. The battery is ready anytime you need without the necessity of charging.

## Key Advantages:

- Compact design, low weight
- Decontaminable by a shower
- Allows immersion disinfection with Sodium hypo-chloride or Persteril

## Typical Usage Areas:

- Health care and emergency response
- Laboratories and pharmaceutical industry

# CM-6 Protective Mask

Reliable and Versatile Protection



**The CM-6 Protective Mask from Gumárny Zubří is designed for superior respiratory protection in hazardous environments. Engineered for maximum safety and comfort, it is available in two configurations:**

- Negative Pressure System – A time-proven solution with a directly mounted protective filter, providing reliable full-face respiratory protection.
- Positive Pressure System – A high-end powered air-purifying respirator (PAPR) seamlessly integrated with the CM-6 mask, ensuring enhanced safety, reduced breathing resistance, and extended wear comfort.

## Key Advantages:

- Panoramic visor for a wide-angle view
- Anti-fog inner mask design for clear vision
- High-quality speech membrane for effective communication
- Compatible with standard EN 148-1 filters

## Typical Usage Areas:

- Defence and law enforcement
- Industrial and chemical hazard zones
- Emergency response and rescue operations
- Civil protection and firefighting



# AS-90 Protective Mask

Advanced Protection for Critical Situations



**The AS-90 Protective Mask is built for high-performance respiratory protection in demanding conditions.**

**Combining cutting-edge design with user comfort, it is available in two configurations:**

- Negative Pressure System – A proven full-face mask with a directly mounted protective filter, ensuring reliable personal respiratory protection.
- Positive Pressure System – When combined with the CleanAIR Chemical 2F Tactical PAPR, the AS-90 offers a high-end powered air-purifying solution, enhancing safety, reducing breathing resistance, and providing long-term comfort.

## **Key Advantages:**

- Panoramic visor for a wide field of vision
- Anti-fog inner mask design for maximum clarity
- Integrated speech horn for clear communication
- Compatible with standard EN 148-1 filters
- Long storage time >20 years

## **Typical Usage Areas:**

- Defence and law enforcement
- Industrial and chemical hazard zones
- Emergency response and hazardous material handling
- Research and civil protection

# CA-12

**An extremely chemically resistant hood,  
suitable for combination with a protective suit**



**This chemically resistant hood ensures respiratory protection  
in the most demanding chemical environments.**

In combination with PAPR or airline systems CleanAIR® it reaches the highest level of breathing protection. The hood has increased durability and can be decontaminated because of the light laminated fabric with taped seams.

It perfectly fits to various head types due to adjustable headgear and comfortable elastic rubber band. The distance of the visor can be individually set, as well as the perimeter of the headgear. The wide panoramic visor with anti-fog coating ensures undisturbed view and provides basic mechanical protection.

## **Key Advantages:**

- Superior respiratory protection
- Thanks special collar, the suit allows air to flow further into the suit, thereby effectively prevents pollutants from entering the suit, ensuring better protection
- Durable and decontaminable
- Inner antiseptic fabric that absorbs sweat and provides extra sealing
- Wide visor with anti-fog coating
- Individual headgear settings – adjustable perimeter and distance from the visor
- Pleasant to wear due to the spacey cut and light weight durable material
- Provides full protection of the eyes according to EN 166

## **Typical Usage Areas:**

- Defence and law enforcement
- Industrial and chemical hazard zones
- Emergency response and hazardous material handling
- Research and civil protection
- Civil protection and firefighting



# Panoramate Lite

Protective coverall



**Exceptional full body and respiratory protection for highly contaminated environments. Designed for use with powered air purifying respirator CleanAIR® Chemical 2F. Maximum durability, low weight, excellent field of vision and freedom of breathing guarantee exceptional comfort for the user.**

## Key Advantages:

- Panoramic visor ensures a wide field of vision
- Transverse front entry opening with zipper.  
Double zipper storm flap
- Elastic ribbing on waist and chest for a better mobility
- Fully taped seams
- Easy and secure connection of the coverall and PAPR thanks to special garment grommets
- Remote Display Device (RDD) compatible, it seamlessly relays crucial PAPR information directly into your view

## Typical Usage Areas:

- First responders and emergency teams
- Viral and biological protection
- Remediation operations
- Nuclear industry
- Laboratories
- Pharmaceutical industry



# Filters

**CleanAIR offers a wide range of filters suitable for various applications, including options designed for the most demanding conditions. These filters are engineered to provide high protection and durability, ensuring effective filtration in challenging environments.**

Particle filters catch a wide range of solid particles in the form of liquid and solid aerosols such as dust, smoke, fibres, bacteria, viruses and radioactive particles. Gas filters provide protection against contaminants in the form of gases and vapours. Combined filters provide protection against a combination of contaminants in the form of gases, vapours and solid particles. The filters are supplied with a standard connection thread RD40×1/7" according to EN 148-1.

## Particle filters

Particle filters catch a wide range of solid particles in the form of liquid and solid aerosols such as dust, smoke, fibres, bacteria, viruses and radioactive particles.

### P3



#### Protect against:

P3 filters catch a wide range of solid particles in the form of liquid and solid aerosols such as dust, smoke, fibers, bacteria, viruses and radioactive particles. Certification: EN 143, EN 12941, EN 12942. All CleanAIR particle filters are meeting requirements of the above standards with filter efficiency not less than 99,95% corresponding with P3 classification.

## Combined filters CLASS 2

Provide protection against a combination of contaminants in the form of gases, vapours and solid particles. EN 14387, EN 12941, EN 12942.

### A2B2E2K2HgP3



#### Protect against:

Organic gases and vapours with a boiling point above 65 °C, inorganic gases and vapours, acid gases and vapours, ammonia and organic amines, mercury compounds and vapours, particles.



**NBC Filters**

Provide protection against a combination of contaminants in the form of gases, vapours and solid particles. EN 14387, EN 12941, EN 12942.

**CBRN Filter**

Provide protection against a combination of contaminants in the form of gases, vapours and solid particles. EN 14387, EN 12941, EN 12942. Compared to NBC filters, it offers even greater resistance.

**A2B2E2K2P3****Protect against:**

Organic gases and vapours with a boiling point above 65 °C, inorganic gases and vapours, acid gases and vapours, ammonia and organic amines, particles. Apart from the above, it provides protection against certain warfare agents.

**A3B2E2K2P R SL****Protect against:**

Organic gases and vapours with a boiling point above 65 °C, inorganic gases and vapours, acid gases and vapours, ammonia and organic amines, particles. Apart from the above, it provides protection against certain warfare agents.



**MALINA - Safety s.r.o.**

Luční 1391/11  
466 01 Jablonec nad Nisou  
Czech Republic

Tel.: +420 483 356 600  
[export@malina-safety.cz](mailto:export@malina-safety.cz)

[www.clean-air.cz](http://www.clean-air.cz)