



CleanAIR[®]

work hard • breathe easy

Rescue and Defence

www.clean-air.cz



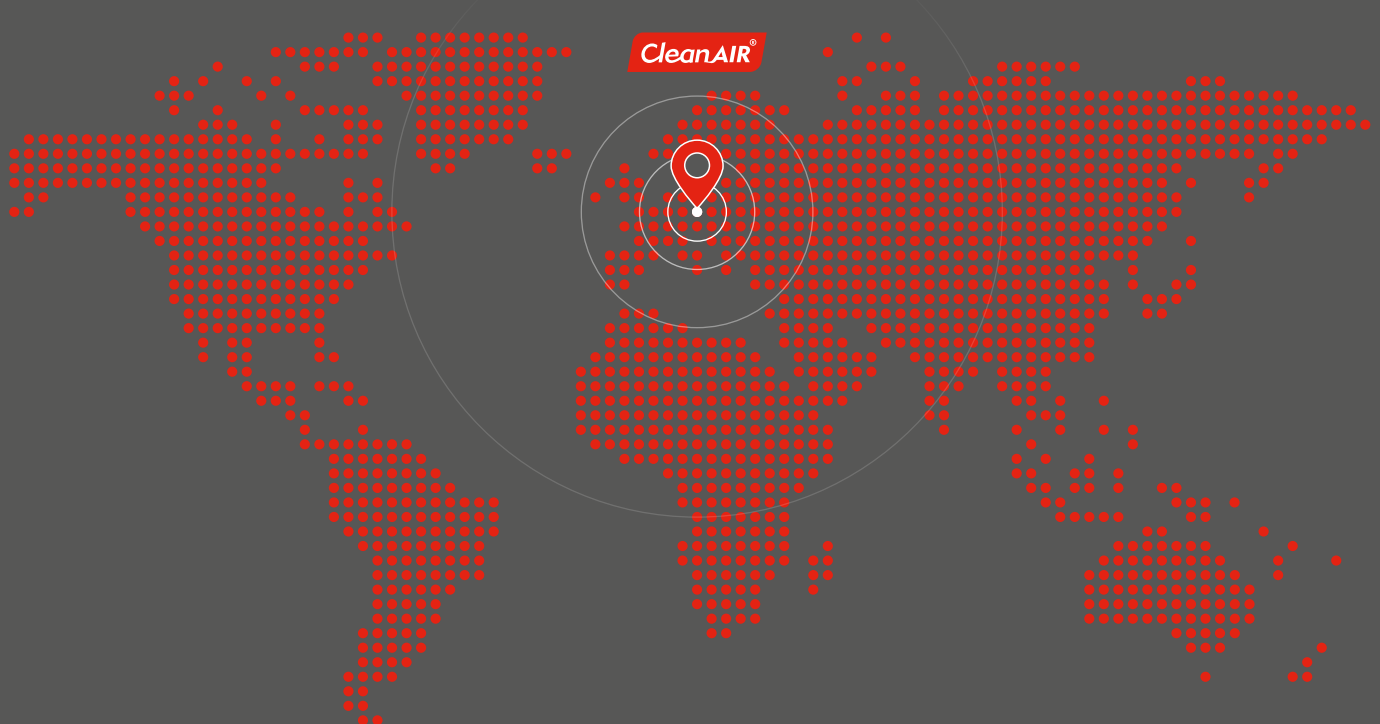
CleanAIR®

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 Rescue & Defence

UniMask

Faceshield



The highest level of breathing protection with enhanced inner airflow regulation and a visor with excellent optical and mechanical features,

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Chemical 2F

Powered air purifying respirator



Despite its compact design and low weight, Chemical 2F is characterized by outstanding durability, chemical resistance and increased ingress protection.

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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 7

Panoramate Lite

Protective coverall



Exceptional full body and respiratory protection for highly contaminated environments.

→ Page 8

CA-12

Protective hood with interface



Chemically resistant hood, suitable for combination with a non-ventilated protective suit.

→ Page 9

CM-6

Full face mask



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

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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.

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AS90

Full face mask



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

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GX02

Full face mask



The full face mask Shigematsu GX02 offers the highest level of respiratory protection in highly contaminated environments.

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Filters



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

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UniMask®

Respiratory protection for wildfire
and rescue operations



UniMask combined with the Chemical 2F powered air respirator provides a lightweight respiratory protection system suitable for wildfire response and rescue operations. The system is compatible with lightweight rescue helmets and offers a high level of respiratory protection together with an unrestricted field of vision and low breathing resistance.

Simply combine the UniMask face shield with your existing rescue or wildfire helmet and connect it to the Chemical 2F powered air respirator. The system provides filtered airflow inside the face shield, reducing breathing resistance while protecting the user against smoke, solid particles and aerosols generated during firefighting and rescue operations.

The lightweight construction together with the continuous supply of filtered air helps reduce user fatigue during long deployments and demanding physical activity while improving breathing comfort in smoke and contaminated environments. The Chemical 2F PAPR unit ensures stable airflow and reliable operation even in harsh outdoor conditions.

Key Advantages:

- Lightweight face shield suitable for long-term use
- Compatible with lightweight rescue and wildfire helmets
- Protection against smoke, solid particles and aerosols
- Wide field of vision
- Low breathing resistance due to powered airflow
- Adjustable inner airflow distribution
- Compact and robust Chemical 2F PAPR unit
- Easy cleaning and maintenance
- Suitable for demanding outdoor environments

UniMask® is designed for demanding intervention environments, providing reliable protection during wildfire fighting, rescue operations, and activities carried out by civil protection units. It is well suited for use by emergency response teams, where effective respiratory protection is essential in smoky, dusty, or otherwise hazardous conditions.



Chemical 2F

The most versatile and durable
PAPR on the market



Compact, lightweight yet powerful... Despite its compact design and low weight, Chemical 2F is characterized by outstanding durability, chemical resistance and increased ingress protection.

Chemical 2F is a powered air respirator designed for demanding environments where reliability, durability and user comfort are critical. Thanks to its robust construction and smooth decontaminable surface, the unit is suitable for rescue operations, emergency deployment and wildfire response.

Designed for harsh environments. The smooth surface design together with high ingress protection allows easy cleaning and decontamination by shower or even full immersion. The integrated Flow Control system maintains constant airflow regardless of filter clogging or battery condition. The full-colour display provides clear operating information, while audible and visual alarms immediately warn the user about low airflow, filter clogging or low battery status. Adjustable airflow from 80 up to 235 lpm provides reliable respiratory comfort even during long and physically demanding operations.

Key Features & Benefits:

- Compact design and low weight
- Compatible with a hood, mask or ventilated protective suit
- High mechanical and chemical resistance
- Increased ingress protection allows decontamination by shower or even full immersion (IP64/IP65/IP68)
- Full colour display clearly shows all the relevant information - filter clogging, battery charge, airflow
- Flow Control system maintains constant airflow regardless of the level of filter clogging or battery charge
- Operation time up to 16 hours with Heavy Duty battery, or up to 10 hours with standard battery
- Short battery recharging time < 3 hours (standard battery)
- Audiovisual alarm
- Multilingual user interface

Typical Usage Areas:

- Remediation operations
- Laboratories
- First responders and emergency teams
- Biological protection
- Chemical emergency response
- Industrial decontamination operations
- Wildfire response

MedicAER®

**Powered air purifying respirator
for healthcare and pharmacy**



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

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.

The Panoramate Lite coverall is also compatible with any communication headset and a safety or technical helmet, ensuring full integration of head and respiratory protection in demanding conditions.



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

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 and face according to EN ISO 16321-1

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



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

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.

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

GX02

The highest level of respiratory protection in highly contaminated environments



The full face mask Shigematsu GX02 offers the highest level of respiratory protection in highly contaminated environments.

The mask can be used with a wide range of standard canister filters and powered air purifying systems CleanAIR®. The mask body is made of a high quality silicone which ensures extensive chemical resistance and a long operation life. Its double seal flange maintains maximal seal while keeping the high level of comfort for the wearer supported by two exhalation valves reducing the breathing resistance and keeping the mask cool and dry.

The six point head harness ensures secure and easy fit. The wide panoramic visor provides a broad visual field. The visor is equipped with anti-scratch coating that guarantees high mechanical resistance which can be further increased by a protection foil. The visor is exchangeable. The mask is equipped with a speech diaphragm which facilitates communication.

Key Advantages:

- Double seal flange for maximum protection and comfort
- High chemical resistance
- Exchangeable wide panoramic visor
- Anti-scratch coating
- Six point head harness
- Two exhalation valves ensure a low breathing resistance
- Speech diaphragm
- Visor protection foil available

Typical Usage Areas:

The mask is suitable for use in the environments with heavy chemical or biological contamination and meets the highest demands on respiratory protection. Besides chemical industry it can be used in pharmaceutical industry, laboratories, spraying facilities and in remediation operations.

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.

Combined filters

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

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 provide a minimum filtration efficiency of 99.95%, corresponding to P3 classification. In addition, all dual-thread filters designed for use with ventilated protective suits provide filtration efficiency of no less than 99.999%.

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. Solid particles in the form of liquid and solid aerosols [e.g. dust, smoke, fibres, bacteria, viruses and radioactive 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. NBC filters are exceeding requirements of the above standards with filter efficiency more than 99,999%.

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. CBRN filters are exceeding requirements of the above standards with filter efficiency more than 99,999%.

Top 5 Highlights of MALINA–Safety



More than 35 years of innovation in respiratory protection

From the launch of the first CleanAIR® unit in 1993 to today's advanced PAPR systems, we are among the technology leaders in the field of personal protection.



A Czech manufacturer with a global reach

CleanAIR® products are exported to more than 40 countries worldwide and protect professionals in industry, healthcare, and specialized applications around the globe.



In-House Development and Manufacturing

We develop and manufacture key technologies, filtration systems, and new product lines at our own production facilities in Jablonec nad Nisou and Železný Brod in the Czech Republic.



Proven Quality and Certifications

We hold ISO 9001 and AQAP 2110 (NATO) certifications, have been recognized for innovation, and are a long-standing, trusted partner to professionals working in demanding conditions.



Continuous Innovation and Investment in the Future

We are expanding our production capacity, modernizing our technologies, and strengthening our position as a leading Czech innovator with prospects for long-term global growth.



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