



CleanAIR[®]

work hard . breathe easy

Catalogue

ENG

Ver 1.1

ABOUT CLEANAIR

The company **MALINA – Safety s.r.o.** specializes in the design, development and production of the complete range of personal respiratory protection systems CleanAIR®. Our products are designed with emphasis on the user’s safety and comfort and are fully approved according to the relevant standards. Personal respiratory protection systems CleanAIR® are exported to more than 40 countries worldwide and represent a significant part of the respiratory protection market.

The long-term experience in the health and safety sector (since 1993) together with our own research and development team guarantee our ability to offer innovative and unique solutions even for special applications. The high quality of our products is ensured by our own production facilities located in the Czech Republic and process management meeting standards ISO 9001 and AQAP 2110.

Our powered air purifying respirators for personal protection offer a solution to the environments with diverse demands on the level of respiratory protection and are widely used in the manufacturing industry, chemical, pharmaceutical, food processing industry and agriculture.

THE IMPORTANCE OF RESPIRATORY PROTECTION IN OCCUPATIONAL SAFETY

The risk of respiratory illnesses and a potential impact on human health is an important problem in the workplace that should be taken into consideration by both employees and employers. If human lungs are exposed to the high concentrations of dust, smoke, welding smoke, aerosols or toxic gases or vapours, their capacity can be decreased or they can be damaged. Some particularly dangerous substances can cause severe harm to the other human organs. This risk can be effectively prevented with the use of personal respiratory protection equipment.

CLEANAIR – POWERED AIR PURIFYING RESPIRATORY SYSTEMS

CleanAIR® is a complete system of personal respiratory protection based on the principle of overpressure of the filtered air in the breathing zone. The system consists of a powered air respirator which is installed on the wearer's belt and filtrates the air taken from the surrounding environment through the efficient particle, gas or combined filters. The purified air is delivered through the breathing tube into a protective mask or hood.

The overpressure inside the system prevents the hazardous substances from entering the breathing zone. This mild overpressure at the same time ensures the wearer's comfort, even with long-term use, as the wearer is not forced to overcome the breathing resistance of the filter.

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BASIC


... has evolved

Time-proven respiratory unit got a new look and incorporates the newest technology. All this and more at price you can afford! CleanAIR® Basic provides efficient protection against harmful particles such as dust, smoke, fumes and fibres. It is equipped with Li-Ion battery, electronic control of constant airflow and advanced system for warning the user. The airflow is individually adjustable (from 170 lpm up to 240 lpm) and can be easily set by just one button. All the relevant information is clearly visible on the newly designed LED control panel.

PRODUCT DESCRIPTION	PRODUCT CODE
CleanAIR® Basic incl. comfort belt, Li-Ion battery, charger, QuickLOCK™ air hose and P R SL filter	D50.810000P
CleanAIR® Basic incl. leather belt, Li-Ion battery, charger, QuickLOCK™ air hose and P R SL filter	D50.810000L
CleanAIR® Basic pre-filter (pack of 10pcs)	D50.810015
Filter P R SL for CleanAIR® Basic - pack of 2 pcs.	D50.800010/2

TECHNICAL DATA	
PARAMETERS	SPECIFICATION
Weight	880 g (including battery)
Dimensions	191x173x104 mm
Airflow	170 - 240 lpm
Alarm	audio and visual
Operation* / charging time	< 10 / < 5 h
Battery	Li-Ion 7,2 V / 4,4 Ah
Hose connection	CA40x1/7"
Certification	EN 12941 TH3

* at 170 lpm with brand new P R SL filters and fully charged battery

AVAILABLE FILTER TYPE		
PARTICLES	COMBINED - Class 1	COMBINED - Class 2
	N/A	N/A

FEATURES AND BENEFITS

- Lightweight and compact
- Exchangeable Li-Ion battery
- Adjustable airflow in five levels (170–240 lpm)
- Flow Control system maintains constant airflow regardless of the level of filter clogging or battery charge
- Audiovisual alarm
- Indication of filter clogging and battery charge
- Newly designed LED control panel
- Simple one-button operation
- New click-lock system for easy attaching the filter cover

AREAS OF APPLICATION

- Welding, grinding and surface finishing operations
- Automotive and shipbuilding industry
- Agriculture, food processing industry
- Building and construction, wood working





AERGO®

Slim, lightweight and ergonomic respirator

The most ergonomical and versatile respirator but not only for welding industry. Compatible with both particle and combined filters and thus suitable for a wide range of industrial applications. The slim profile of the unit allows you to squeeze into spaces with limited access, while the smart Flow Control system maintains the air flow constant regardless filter clogging or low battery charge. Audio, visual and vibrating alarm indicate when battery charge or filter replacement is required. Adjustable airflow 160 or 210 lpm available during the whole shift no matter of the type of the filter thanks to the optional Heavy Duty battery.

PRODUCT DESCRIPTION	PRODUCT CODE
CleanAIR® AerGO® incl. comfort belt, Li-Ion battery, charger, QuickLOCK™ air hose and P R SL filters	D50.300000P
CleanAIR® AerGO® incl. leather belt, Li-Ion battery, charger, QuickLOCK™ air hose and P R SL filters	D50.300000L
CleanAIR® AerGO® incl. leather belt, Heavy Duty Li-Ion battery, charger, QuickLOCK™ air hose and A1B1E1P R SL filters	D50.300000LH

TECHNICAL DATA	
PARAMETERS	SPECIFICATION
Weight	980 g (including standard battery)
Dimension	235x126x65 mm
Airflow	160 and 210 lpm
Alarm	audio, visual and vibrating
Operation* / charging time	< 10 / < 3 h standard battery < 20 / < 5,5 h Heavy Duty battery
Battery	Li-Ion 14,4 V / 2,6 Ah (standard) Li-Ion 14,4 V / 5,2 Ah (Heavy Duty)
Hose connection	CA40x17"
Certification	EN 12941 TH3

* at 160 lpm with brand new P R SL filters and fully charged battery

AVAILABLE FILTER TYPE		
PARTICLES	COMBINED - Class 1	COMBINED - Class 2
		N/A

FEATURES AND BENEFITS

- Lightweight and ergonomic
- Slim profile of the unit – only 65 mm
- Versatile in use – filtration of particulates as well as gases/vapours
- Simple to operate with just one button
- Operation time up to 20 hours with Heavy Duty battery, or up to 10 hours with standard battery
- Short battery recharging time < 3 hours (standard battery)
- Adjustable airflow at two levels: 160 and 210 lpm
- Flow Control system maintains constant airflow regardless of the the level of filter clogging or battery charge
- Audio, visual and vibrating alarm indicating a low airflow or a low battery charge
- Unique filter design ensures the perfect seal by every filter change

AREAS OF APPLICATION

- Welding, grinding and surface finishing operations
- Automotive and shipbuilding industry
- Agriculture, food processing industry
- Building and construction, wood processing



UNIVERSAL IN USE

CleanAIR[®] AerGO[®] is a multipurpose solution suitable for any industrial operations. The system can be flexibly adapted to the particular conditions just by exchanging light particle filters for combined filters that prevent from harmful gases and vapours as well. Optional Heavy Duty battery ensures enough power for the whole shift operation if used with combined filters.



COMBINED FILTERS AVAILABLE

Filters with active charcoal eliminate a wide range of gaseous contaminants including ozone*.

Filter AerGO [®] A1P R SL (pack of 2 pcs)	D50.300357
Filter AerGO [®] A1B1E1P R SL - OZONE (pack of 2 pcs)	D50.300364
Filter AerGO [®] P R SL (pack of 2 pcs)	D50.300010/2



HEAVY DUTY BATTERY OPTION AVAILABLE

The Heavy Duty battery more than doubles the operation time of the respirator. It's not necessary anymore to recharge the batteries during long shifts. When used with new P R SL filters and a fresh battery, CleanAIR[®] guarantees an operation time of more than 16 hours.

Standard battery, Li-Ion 14,4 V / 2,6 Ah	D50.310013
Heavy Duty battery, Li-Ion 14,4 V / 5,2 Ah	D50.310023



SLIM PROFILE

The slim profile of the unit (only 65 mm) allows you to squeeze into spaces with limited access.



CHARGER WITH A MULTI-PLUG



HIGHLY DURABLE LEATHER BELT AVAILABLE

Leather belt combines high comfort of the back padding with high durability. Investing in a leather belt option can be wise when used in highly demanding environments.

Comfort padded belt CleanAIR [®] AerGO [®]	D50.300092
Heavy Duty Leather belt CleanAIR [®] AerGO [®]	D50.320092



SPARK ARRESTOR AND PRE-FILTER AVAILABLE

The spark arrestor prevents the filter from damage by hot sparks and spatters while the pre-filter traps the coarse particles and thus prolongs the lifetime of the main filter. Start using spark arrestors and keep your filter maintenance cost low.



PRESSURE


Solutions for compressed air

Systems CleanAIR® Pressure/Pressure Flow Master are constant flow supplied air respirators suitable for a long term work in the heaviest industrial environments. The regulator on the belt unit can adjust the amount of air coming from the central compressed air distribution system or a compressor and keeps it at a constant level without regard to the changes of inlet pressure.



PRODUCT DESCRIPTION	PRODUCT CODE
CleanAIR® Pressure including accessories (belt and flow indicator)	D50.630000
CleanAIR® Flow Master including accessories (comfort belt and flow indicator)	D50.670000
CleanAIR® Pressure Conditioner with stand	D50.610050

TECHNICAL DATA			
PARAMETERS	SPECIFICATION		
	Pressure Flow Master	Pressure	Pressure Conditioner
Airflow	160-250 lpm	160-400 lpm	
Inlet pressure	400-1 000 kPa	300-1 000 kPa	300-1 000 kPa
Weight	280 g	250 g	6,80 kg
Inlet connection	compatible with RECTUS 25, 26 and CEJN 320		
Outlet connection	CA40x1/7"	CA40x1/7"	2x outlet compatible with RECTUS 25, 26 and CEJN 320
Certification	EN 14594, class 3B	EN 14594, class 2A	-

AVAILABLE FILTER TYPE	
COMBINED Pressure Conditioner filter	 <p>CleanAIR® Conditioner contains the high capacity combined filter that removes solid particles, oil mist and unpleasant odours. It ensures that the quality of the compressed air in the distribution system complies with the requirements of regulation EN 12021. Two workers can be connected at the same time.</p>

FEATURES AND BENEFITS

- Low weight
- Economical operation
- High levels of airflow
- Low pressure warning system
- Option of filtration of supplied air
- Compatible with a wide range of CleanAIR® headtops

AREAS OF APPLICATION

Manufacturing and automotive industry – welding, grinding, surface finishing operations, suitable to the heavy industrial environments.



CleanAIR® Pressure Basic regulator



CleanAIR® Pressure Flow Master Regulator with low pressure warning system and manometer

CA-1 / CA-2

Ultralight hood with superior breathing protection

This short light hood is an optimal solution for protection of breath and face in dusty environments where no further mechanical protection is required. In combination with PAPR or airline systems CleanAIR® it reaches the highest level of breathing protection. 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 headband. The light nylon fabric and spacy cut make it pleasant to wear even for long time work. The wide panoramic visor with antifog coating ensures undisturbed view and provides basic mechanical protection of the eyes.



PRODUCT DESCRIPTION	PRODUCT CODE
Short protective hood CA-1, orange	D50.720102
Short protective hood CA-1, blue	D50.720102B
Long protective hood CA-2, orange	D50.720202
Long protective hood CA-2, blue	D50.720202B

TECHNICAL DATA	
PARAMETERS	SPECIFICATION
Weight	220 g
Material	hood – nylon visor – cellulose propionate
Protection factor (NPF)	500
Hose connection	QuickLOCK™
Certification	EN 12941 TH3 EN 14594 3A EN 166 1SF

APPROVED COMBINATIONS		
CleanAIR® AerGO®	CleanAIR® Basic	CleanAIR® Pressure Flow Master
		

FEATURES AND BENEFITS

- Superior breathing protection
- Wide visor with antifog coating
- Individual headgear settings – adjustable perimeter and distance from the visor
- Pleasant to wear due to the spacy cut and light weight durable material
- Basic mechanical protection of the eyes
- Practical reflective tab on the top
- Longer option CA-2 covering neck available

AREAS OF APPLICATION

Suitable for use in the non-toxic dusty environments in the manufacturing industry, wood processing, food industry, mining, agriculture etc.



LONGER OPTION CA-2 COVERING NECK AVAILABLE





CA-40

Easy to wear, easy to use helmet

A conceptual solution for the most challenging industries available in three individual product modifications. You can choose from the combination of the safety helmet with the welding shield or the grinding visor or even benefit from both solutions integrated into one protective device.

PRODUCT DESCRIPTION	PRODUCT CODE
Safety helmet CA-40GW with welding shield and grinding visor, w/o ADF	D50.704200
Safety helmet CA-40GW with welding shield and grinding visor, including ADF Balder V9-13	D50.704201
Safety helmet CA-40G with grinding visor	D50.704100
Safety helmet CA-40 with welding shield, w/o ADF	D50.704000
Safety helmet CA-40 with welding shield, including ADF Balder V9-13	D50.704001

TECHNICAL DATA

PARAMETERS	SPECIFICATION
Weight (GW/G/W)	1255 / 1100 / 1100 g
ADF dimension	110x90 mm
Viewing area	95x46,5 mm – Balder V9-13 100x53 mm – AerTEC™ X100/X110
Hose connection	QuickLOCK™
Certification	EN 166 1, A, K, N EN 379 1/1/1/2, EN 175 S, B, EN 397 EN 12941 TH3, EN 14594 3B
Protection factor (NPF)	500

APPROVED COMBINATIONS

CleanAIR® AerGO®	CleanAIR® Basic	CleanAIR® Pressure Flow Master
		

FEATURES AND BENEFITS

- Multiple protection – 5 levels of protection at once: eye, face, head, respiratory and optional hearing protection
- Easy to wear, easy to use and easy to maintain system
- Comptible with ADFs or passive filters 110x90 mm
- Superb quality spherical visor guarantees an excelent field of vision
- Anti-fog coating prevents the visor from fogging
- Anti-scratch coating increases the mechanical durability of the visor
- Shade 4, shade 5 and yellow visors available
- Enhanced robustness - protection against high-speed particles with HIGH energy
- In-built air distribution system
- The highest standard in respiratory protection – TH3

AREAS OF APPLICATION

Automotive industry, construction, shipbuilding, heavy duty maintenance.



CA-40GW

Multi-purpose safety helmet with a welding and grinding shield provides 5 levels of protection at once: eye, face, head, respiratory and optional hearing protection. Stable flip-up is compatible with auto-darkening filters or passive filters in dimension of 110x90 mm. Superb quality visor with anti-fog / anti-scratch coating guarantees excellent field of vision and increased durability. The easy to change DIN4 or DIN5 visor expand the system to the perfect protector for efficient Plasma or Oxy cutting. The product is suitable for the most challenging welding tasks including welding preparations (positioning, clamping) and further surface operations (grinding, cleaning, polishing).

Safety helmet CA-40GW with welding shield and grinding visor, w/o ADF **D50.704200**

Safety helmet CA-40GW with welding shield and grinding visor, including ADF Balder V9-13 **D50.704201**



CA-40

Combination of a welding shield and a safety helmet with integrated air distribution. Ensures protection of the head, eyes, face, respiratory and hearing. Compatible with auto-darkening filters or passive filters in dimension of 110x90 mm.

Safety helmet CA-40 with welding shield, w/o ADF **D50.704000**

Safety helmet CA-40 with welding shield, with ADF Balder V9-13 **D50.704001**



CA-40G

Combination of a grinding visor and a safety helmet with integrated air distribution. Ensures protection of the head, eyes, face, respiratory and hearing. Superb quality toric visor with anti-fog / anti-scratch coating guarantees an excellent field of vision and increased durability. The easy to change DIN4 or DIN5 visor expands the system to the perfect protector for efficient Plasma or Oxy cutting.

Safety helmet CA-40G with grinding visor **D50.704100**



NEW GRINDING VISORS AVAILABLE

You can choose from two different shade levels 4 and 5 or a bright yellow visor. The brand new toric visors offer excellent optical quality (EN 166 class 1) and enhanced robustness - protection against high-speed particles with HIGH energy guaranteed.

Spare grinding visor for CA-40, class 1, clear **D50.729000**

Spare grinding visor for CA-40, class 1, yellow **D50.729001**

Spare grinding visor for CA-40, class 1, shade 3 **D50.729003**

Spare grinding visor for CA-40, class 1, shade 5 **D50.729005**

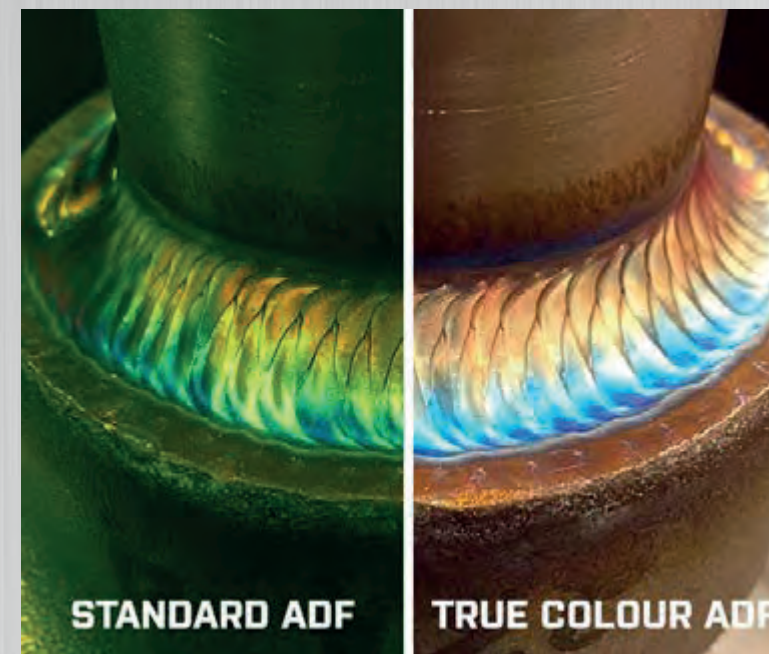


TRUE COLOUR ADF OPTIONS

New AerTEC™ auto-darkening welding filters offer a great price-performance ratio. Advanced control options including shade, sensitivity and delay adjustment and grind/weld function are available. Wide field of vision thanks to the enlarged lens with True Colour feature (AerTEC™ X110) allowing realistic colour perception.

Auto-darkening welding filter AerTEC™ X100, 9-13 **D50.405100**

Auto-darkening welding filter AerTEC™ X110 true colour, 9-13 **D50.405110**



OPTIONAL HEARING PROTECTION

Earmuffs Secure 1C - For long term use in low noise level or shorter periods in medium noise level environments. **D50.714040**

Earmuffs Secure 2C - For long term use in medium noise level or shorter periods in high noise level environments. Best choice in high frequency dominated noise. **D50.714041**

Earmuffs Secure 3C - For use in high noise level environments. Best choice in low frequency dominated noise. **D50.714042**



EXTEND YOUR PROTECTION

You can choose from two different neck and throat protectors.

Neck and throat protection made from flame retardant fabric **D50.704065**

Neck and throat protection made from high durable leather **D50.704065L**



UNIMASK

Light universal faceshield providing the highest comfort and safety

The highest level of breathing protection with enhanced inner airflow regulation and a visor with excellent optical and mechanical features make this universal light face shield a true leader of its class. UniMask is light (just 380 g) and offers excellent user's comfort – the inner airflow regulation allows the user to set direction and intensity of the air to be delivered to the forehead or to the front of the mouth. The users can opt for a soft textile or a neoprene face seal according to their preferences. The visor provides clear and undisturbed view of the highest quality (class 1 according to EN 166), high mechanical resistance and the anti-fog coating. UniMask is easy to use and maintain. All spare parts are quickly and easily removable and enable fast and simple maintenance.

PRODUCT DESCRIPTION

PRODUCT DESCRIPTION	PRODUCT CODE
Protective face shield UniMask, grey	D50.720300.01
Protective face shield UniMask, blue	D50.720300.02
Protective face shield UniMask, orange	D50.720300.03
Protective face shield UniMask, red	D50.720300.04
Protective face shield UniMask, neoprene	D50.720300.08

TECHNICAL DATA

PARAMETERS	SPECIFICATION
Weight	380 g
Material	shield body - Polyamide faceseal - Neoprene or 3D polyamide knit visor - Polycarbonate
Protection factor (NPF)	500
Hose connection	QuickLOCK™
Certification	EN 12941 TH3 EN 14594 3B EN 166 1BT

APPROVED COMBINATIONS



FEATURES AND BENEFITS

- The highest class of breathing protection TH3
- Enhanced inner airflow regulation
- Light weight – only 380 g
- Excellent optical quality EN 166 class 1
- High mechanical resistance of the visor
- Anti-fog / anti-scratch coating
- Safety helmet compatible
- Neoprene or textile face seal option
- Easy to use and adjust
- Fast and simple maintenance

AREAS OF APPLICATION

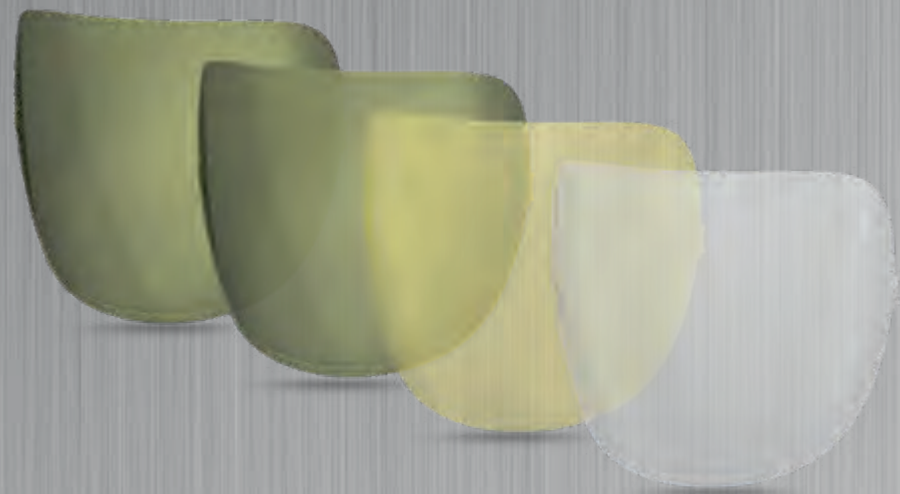
UniMask is suitable for many kinds of grinding and other surface finishing operations, and by heavy duty maintenance. It is convenient for use in the building industry, automotive industry, shipbuilding etc.



TORIC VISOR WITH AN EXCELLENT OPTICAL QUALITY

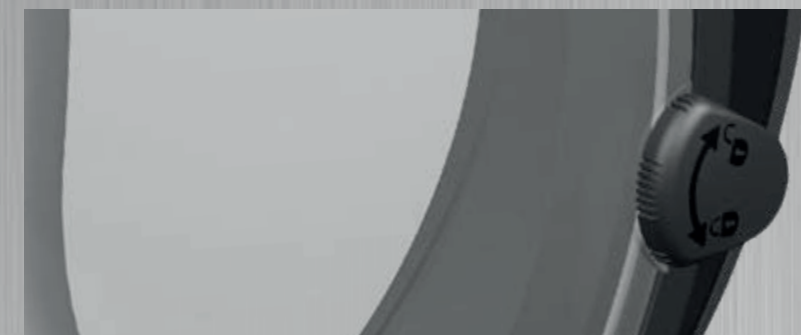
UniMask is the only universal faceshield of its class on the market with a toric visor which offers the best class of optical quality (EN 166 class 1). Visor is equipped with anti-fog / anti-scratch coating and guarantees excellent field of vision and increased durability. It provides protection against high-speed particles with medium energy even in high temperatures.

Spare protective visor UniMask, clear	D50.720330
Spare protective visor UniMask, yellow	D50.720330.01
Spare protective visor UniMask, shade 3	D50.720330.02
Spare protective visor UniMask, shade 5	D50.720330.03



EASY AND QUICK CHANGING OF THE VISOR

In case the visor has to be replaced or separately cleaned, it can be easily removed and attached back to the hood using two simple locking knobs.



INNER AIRFLOW REGULATION



QUICKLY EXCHANGEABLE FACE SEAL WITH EASY MAINTENANCE

The face seal ensures secure and comfortable fit for the wearer. Thanks to a fast click-in system the face seal can be easily and quickly removed and attached back. The face seals can be washed in a washing machine and even dried in the dryer.



FACE SEAL MATERIAL AND COLOUR OPTIONS

The face seals for UniMask are available in two material options to better suit various user's preferences.

Soft textile face seal ensures perfect absorption of the sweat and is available in four colour options.

Face seal UniMask, grey	D50.72 0350.01
Face seal UniMask, blue	D50.720350.02
Face seal UniMask, orange	D50.720350.03
Face seal UniMask, red	D50.720350.04

Neoprene face seal is more convenient to the higher concentrations of dust thanks to easier cleaning.

Face seal UniMask, neoprene	D50.720350.08
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SAFETY HELMET COMPATIBLE

UniMASK can be used with a wide range of standard safety industrial helmets to provide a handy solution of head protection combined with protection of the face and breathing.






AERTEC™ OPTOMAX

Perfect view during welding thanks to world-leading ADF technology from Optrel

Fully automated shade level adjustment for any welding procedure in the 5-13 range. Natural-colour view in the entire protection range and ultra-HD quality in classes 1/1/1/1. In-built air distribution system delivers the air right into the breathing zone.

PRODUCT DESCRIPTION	PRODUCT CODE
Welding helmet AerTEC™ OptoMAX Air incl. ADF Optrel with air distribution, silver	D50.70.4441.600
Welding helmet AerTEC™ OptoMAX Air incl. ADF Optrel with air distribution, black	D50.70.4441.601

TECHNICAL DATA	
PARAMETERS	SPECIFICATION
Weight	740 g
ADF dimension	110x90x7 mm
Viewing area	50x100 mm
Hose connection	QuickLOCK™
Certification	EN 379 1/1/1/1, EN 175 B, EN 12941 TH3, EN 14594 3B
Protection factor (NPF)	500

APPROVED COMBINATIONS		
CleanAIR® AerGO® 	CleanAIR® Basic 	CleanAIR® Pressure Flow Master 

FEATURES AND BENEFITS

- AUTOPILOT - fully automatic shade level adjustment
- The manual mode features extended shade range
 - 5-9 for Oxy and Plasma cutting / 9-13 for welding
- Ultra-HD quality with natural colour view and classification 1/1/1/1
- Enlarged viewing area 50x100 mm
- Grind mode function
- In-built air distribution system
- The highest standard in respiratory protection – TH3

AREAS OF APPLICATION

Any electric arc welding process Electrode Welding (Stick Welding, SMAW) / MIG / MAG (GMAW) / GMAW High melting rate process / Flux Cored Wire Welding / TIG welding (GTAW) / Plasma Arc Welding / Plasma cutting & Oxy-gas Welding / Grinding in Grind Mode. Prohibited for laser welding!





AERTEC™ RANGEMAX

Broaden your perspective

The most innovative and ergonomical helmet to date, expanding the welder's field of vision without compromising on comfort. The unique nose cut-out floats above the nose to position the ADF closer to the eyes. This enlarges the field of vision 6 times compared to the conventional welding helmets.

Fully automated shade level adjustment for any welding procedure in the 5-12 range. In-built air distribution system delivers the air right into the breathing zone.

PRODUCT DESCRIPTION

Welding helmet AerTEC™ RangeMAX incl. ADF Optrel with air distribution

PRODUCT CODE

D50.70.4441.660

TECHNICAL DATA

PARAMETERS	SPECIFICATION
Weight	740 g
ADF dimension	unique specific cut-out shape
Viewing area	6 time wider compared to conventional ADF
Hose connection	QuickLOCK™
Certification	EN 379 1/1/1/2, EN 175 B, EN 12941 TH3, EN 14594 3B
Protection factor (NPF)	500

APPROVED COMBINATIONS

CleanAIR® AerGO®



CleanAIR® Basic



CleanAIR® Pressure Flow Master



FEATURES AND BENEFITS

- 6-times larger field-of-view compared to standard helmets
- AUTOPILOT - fully automatic shade level adjustment within the range 5-12. If preferred, the Autopilot can be deactivated for manual shade level selection 7-12.
- True colour view
- Shade level 2.5 in inactive mode
- New energy concept with Lithium-polymer battery
- Multi-Sensor detection - 5 sensors
- Grind mode function
- In-built air distribution system
- The highest standard in respiratory protection - TH3

AREAS OF APPLICATION

Any electric arc welding process Electrode Welding (Stick Welding, SMAW) / MIG / MAG (GMAW) / GMAW High melting rate process / Flux Cored Wire Welding / TIG welding (GTAW) / Plasma Arc Welding / Plasmacutting & Oxy-gas Welding / Grinding in Grind Mode. Prohibited for laser welding!





CA-28 EUROMASKI

CA-28 Euromaski represents an ergonomic and lightweight solution for most of welding processes. Thanks to stable flip-up welding visor it provides an excellent protection for grinding, welding and subsequent cleaning operations. A wide curved protective visor ensures undisturbed view in all directions and meets medium impact requirements "B" as defined in EN 166. CA-28 Euromaski is designed for use with CleanAIR® PAPR units or CleanAIR® airline systems to protect respiratory tract, face and eyes against harmful ultraviolet/infrared radiation and welding spatters.

PRODUCT DESCRIPTION	PRODUCT CODE
Welding hood CA-28 Euromaski, shade 1,7 + 8, incl. air distribution	D50.702800
Welding hood CA-28 Euromaski, shade 1,7 + 10, incl. air distribution	D50.702801
Welding hood CA-28 Euromaski, shade 3 + 8, incl. air distribution	D50.702802

TECHNICAL DATA	
PARAMETERS	SPECIFICATION
Weight	560 g
Material	helmet shell – TPE visor – polycarbonate
Hose connection	QuickLOCK™
Protection factor (NPF)	50
Certification	EN 12941 TH2, EN 14594 2A, EN 175 B, EN 166 B

APPROVED COMBINATIONS		
CleanAIR® AerGO®	CleanAIR® Basic	CleanAIR® Pressure Flow Master
		

FEATURES AND BENEFITS

- Compact and durable design
- Lightweight, comfortable
- Combines welding and grinding protection
- Large curved visor for undisturbed view
- Easily exchangeable spare parts
- Comfortable and easily adjustable headband
- Wide range of different shade visors (clear, smoky, shade 1,7; 3,0 and 5,0)

AREAS OF APPLICATION

Suitable for most of welding methods and subsequent cleaning and grinding operations.





AERTEC™ SEEMAX

Always a great view and perfect air conditions when protecting your face is necessary.

Unlimited clear view of your workspace, filtered and clear air with adjustable air distribution make SeeMAX the unique face and respiratory protection system with the highest safety level. The easy to change DIN5 front cover lens expands the system to the perfect protector for efficient plasma cutting.

PRODUCT DESCRIPTION

Grinding shield AerTEC™ SeeMAX including head gear and air distribution

PRODUCT CODE

D50.70.4900.020

TECHNICAL DATA

PARAMETERS	SPECIFICATION
Weight	495 g
Hose connection	QuickLOCK™
Visor	clear, shade 3, shade 5
Certification	EN 166, EN 175 B, EN 12941 TH3, EN 14594 3B
Protection factor (NPF)	500

APPROVED COMBINATIONS

CleanAIR® AerGO®	CleanAIR® Basic	CleanAIR® Pressure Flow Master
		

FEATURES AND BENEFITS

- Lightweight and comfortable - thanks to the minimized weight of only 495 g and an ergonomic fit SeeMAX sets new benchmarks in wearing comfort
- Wide visor ensures unlimited clear view of your workspace
- Adjustable air distribution - a rotary switch can be used to feed 20% of the cool air to the forehead.
- The easy to change DIN5 front cover lens expands the system to the perfect protector for efficient plasma cutting.

AREAS OF APPLICATION

Grinding, automotive, heavy metal industry, painting industry, building and construction, chemical industry, food processing industry, general industry, industrial cleaning, agriculture.





CA-10

Superior breathing protection with high chemical resistance

This chemically resistant hood ensures respiratory protection and protection of the head, neck and shoulders 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 is still very light and comfortable thanks to the inner antiseptic fabric which absorbs sweat and at the same time creates an additional sealing. 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 antifog coating ensures undisturbed view and provides basic mechanical protection.

PRODUCT DESCRIPTION

Long protective hood CA-10, chemically resistant

PRODUCT CODE

D50.721002

TECHNICAL DATA

PARAMETERS	SPECIFICATION
Weight	220 g
Material	hood - polyethylene laminated visor - cellulose propionate
Colour	yellow
Protection factor (NPF)	500
Hose connection	QuickLOCK™
Certification	EN 12941 TH3 EN 14594 3A EN 166 1SF

APPROVED COMBINATIONS

CleanAIR®
Chemical 2F



CleanAIR®
Chemical 3F



CleanAIR®
Pressure Flow Master



FEATURES AND BENEFITS

- Superior respiratory protection
- Durable and decontaminable
- Inner antiseptic fabric absorbs sweat and provides extra sealing
- Wide visor with antifog coating
- Individual headgear settings – adjustable perimeter and distance from the visor
- Pleasant to wear due to the spacy cut and light weight durable material
- Basic mechanical protection of the eyes
- Practical reflective tab on the top

AREAS OF APPLICATION

The hood can be used in all environments demanding high durability and chemical resistance. It is suitable for spraying and painting operations as well as for use in the laboratories and pharmaceutical or chemical industries.





CHEMICAL 2F

Compact, lightweight yet powerful.... Meet the most versatile and durable respirator on the market.

Despite its compact design and low weight, Chemical 2F is characterized by outstanding durability, chemical resistance and increased ingress protection. The thought-out design with a smooth surface allows easy decontamination by shower or even full immersion. The unique automatic closing system prevents unwanted contamination while the filters are being changed. The smart Flow Control system maintains the airflow on the constant level regardless filter clogging or low battery charge. Audiovisual alarm indicates when the battery charge and/or filter replacement is required. Adjustable airflow from 120 up to 235 lpm is available during the whole shift no matter of the type of the filter thanks to optional Heavy Duty battery.

PRODUCT DESCRIPTION	PRODUCT CODE
CleanAIR® Chemical 2F incl. comfort belt, Li-Ion battery, charger, flow indicator (w/o hose)	D50.510000FCAU
CleanAIR® Chemical 2F incl. decontaminable belt, Li-Ion battery, charger, flow indicator (w/o hose)	D50.510000FDAU
CleanAIR® Chemical 2F with activated „Garment“ mode incl. comfort belt, Li-Ion battery, charger, air hose, locking nut, flow indicator	D50.510000FCU
CleanAIR® Chemical 2F with activated „Garment“ mode incl. comfort belt, Li-Ion battery, charger, air hose, locking nut, flow indicator	D50.510000FDU

TECHNICAL DATA	
PARAMETERS	SPECIFICATION
Weight	960 g (including standard battery)
Dimension	240 mm / 110 mm / 120 mm
Airflow	adjustable 120 -235 lpm
Alarm	audio, visual
Operation* / charging time	< 10 / < 3 h standard battery < 20 / < 5,5 h Heavy Duty battery
Battery	Li-Ion 14,4 V / 2,6 Ah (standard battery) Li-Ion 14,4 V / 5,2 Ah (Heavy Duty battery)
Hose connection	CA40x1/7"
Certification	EN 12941 TH3 EN 12942 TM3 Ingress protection IP64IP65 IP68

* at 160 lpm with brand new P R SL filters and fully charged battery

AVAILABLE FILTER TYPE		
PARTICLES	COMBINED - Class 1	COMBINED - Class 2
		

* for all available filter configurations (gas, combined) please refer to the "Spare parts" of the catalogue

FEATURES AND 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
- Back harness available for increased comfort

AREAS OF APPLICATION

- Heavy industrial environments including chemical and pharmaceutical industry
- Remediation operations, laboratories
- First responders and emergency teams
- Biological protection



FULL COLOUR DISPLAY

Full colour display clearly shows all the relevant information – airflow, battery charge, filter clogging.



FILTER TIMER

Just set the filter timer according to your needs and the system will trigger the alarm when filter replacement is required.

COMPATIBLE WITH MICROGARD MICROCHEM PAPR PROTECTIVE SUITS

Ventilated suits with filtered air (powered by CleanAIR® Chemical 2F) and MICROGARD® / MICROCHEM® technology provide respiratory, face and body protection from various hazardous substances including but not limited to solid and liquid aerosols, asbestos, paint, oil, grease, viruses and blood borne pathogens.



AUTOMATIC CLOSING SYSTEM

The unique automatic closing system prevents unwanted contamination while the filters are being changed.



DIFFERENT POWER SUPPLY OPTIONS

You can choose between the standard battery, heavy-duty battery or non-rechargeable primary battery. Besides standard charger there are available power adaptors either for car power socket or for the main socket as an alternative power source.

POWER ADAPTORS

- Power adaptor 230 V / 24 V for the main socket **D50.510015.1**
- Power adaptor 12 V / 24 V - car power socket **D50.510015.1**



HEAVY DUTY BATTERY

The high capacity battery doubles the operation time. No more necessary changing or charging the battery during a long shift even when using gas and combined filters.

- Battery Li-Ion Heavy Duty, Li-Ion 14,4V / 5,2Ah **D50.51020**



PRIMARY BATTERY

Non rechargeable one-time use battery with guaranteed 10 years storage time. The battery is ready anytime you need without the necessity of charging. The perfect choice for emergency teams, first responders, or those who need to use the respiratory system only in case of an emergency.

- Primary Lithium battery **D50.510011**



BACK HARNESES FOR INCREASED BACK SUPPORT AND HIGHER COMFORT

- Comfort padded harness **D50.520044.1**
- Decontaminable harness **D50.510042**



MAXIMIZED WATER INGRESS PROTECTION IP68

The thought-out design with a smooth surface allows easy decontamination by the shower or even full immersion. **IP64** Shower decontamination¹– full protection from splash of liquids from any angle **IP65** Shower decontamination²– full protection from water jets from any angle. **IP68** Immersion disinfection³– full protection from continuous submersion in water/disinfection solution. Disinfection of CleanAIR® Chemical 2F is feasible e.g. with sodium hypochlorite solution and peroxyacetic solution (Persteril).

- ¹ When the system is ON, fitted with CleanAIR® filters
- ² When the system is ON, fitted with CleanAIR® filters incorporating pre-filter holder and spark arresters
- ³ When the system is OFF, fitted with decontamination plugs





CHEMICAL 2F Ex




The most versatile and durable respirator is newly available in ATEX version which can be used in potentially explosive atmospheres.

Despite its compact design and low weight, Chemical 2F is characterized by outstanding durability, chemical resistance and increased ingress protection. The thought-out design with smooth surface allows easy decontamination by shower or even full immersion. The unique automatic closing system prevents unwanted contamination while the filters are being changed. The smart Flow Control system maintains the airflow constant regardless filter clogging or low battery charge. Audiovisual alarm indicate when the battery charge and/or filter replacement is required. Airflow is individually adjustable from 120 lpm up to 235 lpm.

PRODUCT DESCRIPTION	PRODUCT CODE
CleanAIR® Chemical 2F Ex - incl. comfort belt Ex, Li-Ion battery, charger, light flexi hose QuickLOCK™, flow indicator	D50.51E000FCU
Short hood CA-1, orange, uni size	D50.720102
Short hood CA-1, blue, uni size	D50.720102B
Long hood CA-2, orange, uni size	D50.720202
Long hood CA-2, blue, uni size	D50.720202B
Long protective hood CA-10, chemically resistant	D50.721002
Protective face shield UniMask, grey	D50.720300.01

TECHNICAL DATA	
PARAMETERS	SPECIFICATION
Weight	960 g (including battery)
Dimension	240 mm / 110 mm / 120 mm
Airflow	adjustable 120 -235 lpm
Alarm	audio, visual
Operation* / charging time	< 10 / < 3 h
Battery	Li-Ion 14,4 V / 2,6 Ah (standard)
Hose connection	CA40x1/7"
Certification	EN 12941 TH3 EN 12942 TM3
ATEX classification	Ingress protection IP64 IP65 IP68 II 3 G IIB T4 Gc II 3 D IIIC 135°C Dc

* at 160 lpm with brand new P R SL filters and fully charged battery

AVAILABLE FILTER TYPE		
PARTICLES	COMBINED - Class 1	COMBINED - Class 2
		

* for all available filter configurations (gas, combined) please refer to the "Spare parts" of the catalogue

FEATURES AND BENEFITS

- Compact design and low weight
- Specially adapted for use in potentially explosive atmospheres – approved to Zone 2
- 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
- Short battery recharging time < 3 hours
- Audiovisual alarm
- Multilingual user interface

AREAS OF APPLICATION

- Potentially explosive atmospheres – approved to Zone 2
- Heavy industrial environments including chemical and pharmaceutical industry
- Remediation operations, laboratories
- First responders and emergency teams
- Biological protection



GX02/CF02 & CHEMICAL 2F ASBEST

The high performance respiratory protection system for environments contaminated by asbestos fibres.

The combination of the powered air respirator Chemical 2F and the high quality full face masks GX02/CF02 characterizes excellent durability and the highest level of respiratory protection. The smart Flow Control system ensures a constant air flow, regardless of whether the filter is clogged or the battery is running low. The audiovisual alarm indicates when the battery needs to be charged or the filter needs to be replaced. With the two options available for full-face masks, users can choose the perfect mask for comfort and a secure fit based on their individual needs.



PRODUCT DESCRIPTION	PRODUCT CODE
CleanAIR Chemical 2F Asbest incl. decontaminable Hypalon belt, Li-Ion battery, charger, flow indicator (w/o hose)	D50.510000ASDU
CleanAIR Chemical 2F Asbest incl. decontaminable rubber belt, Li-Ion battery, charger, flow indicator (w/o hose)	D50.510000ASRU
Full face mask Shigematsu GX02, size S	D50.710600S
Full face mask Shigematsu GX02, size M	D50.710600M
Full face mask Shigematsu GX02, size L	D50.710600L
Full face mask Shigematsu CF02, size M	D50.720600M
Full face mask Shigematsu CF02, size L	D50.720600L

TECHNICAL DATA	
PARAMETERS	SPECIFICATION
Weight	960 g (including standard battery)
Dimension	240 mm / 110 mm / 120 mm
Airflow	adjustable 160 -235 lpm
Alarm	audio, visual
Operation* / charging time	< 10 / < 3 h standard battery < 20 / < 5,5 h Heavy Duty battery
Battery	Li-Ion 14,4 V / 2,6 Ah (standard) Li-Ion 14,4 V / 5,2 Ah (Heavy Duty)
Hose connection	CA40x1/7"
Certification	EN 12941 TH3 EN 12942 TM3 Ingress protection IP64/IP65/IP68

* at 160 lpm with brand new P R SL filters and fully charged battery

FEATURES AND BENEFITS

- Compact design and low weight
- 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
- Audiovisual alarm
- Multilingual user interface
- Back harness available for increased comfort

AREAS OF APPLICATION

Remediation operations, building & construction.



FULL COLOUR DISPLAY

Full colour display clearly shows all the relevant information – airflow, battery charge, filter clogging



FILTER TIMER

Just set the filter timer according to your needs and the system will trigger the alarm when the filter replacement is required.

COMPACT DESIGN AND LOW WEIGHT

The thought-out design with smooth surface allows easy decontamination by shower or even full immersion.



HEAVY DUTY BATTERY

The high capacity battery doubles the operation time. No more necessary to change or recharge the battery during long shift including combination/ even if using the system with gas and vapour filters. Battery Li-Ion Heavy Duty, Li-Ion 14.4V / 5.2Ah **D50.510020**



AUTOMATIC CLOSING SYSTEM

The unique automatic closing system prevents unwanted contamination while the filters are being changed.



MAXIMIZED WATER INGRESS PROTECTION IP68

The thought-out design with a smooth surface allows easy decontamination by the shower or even full immersion.

IP64 Shower decontamination¹– full protection from splash of liquids from any angle

IP65 Shower decontamination²– full protection from water jets from any angle.

IP68 Immersion disinfection³– full protection from continuous submersion in water/disinfection solution. Feasible disinfection with sodium hypochlorite solution and peroxyacetic solution (Persteril).

¹ When the system is ON, fitted with CleanAIR® filters

² When the system is ON, fitted with CleanAIR® filters incorporating pre-filter holder and spark arresters

³ When the system is OFF, fitted with decontamination plugs



WSHIGEMATSU GX02

High-end full face mask with advanced ergonomic design

FEATURES AND BENEFITS

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



SHIGEMATSU CF02

Lightweight full face mask with a superior visor

FEATURES AND BENEFITS

- Lightweight – 435 g
- High chemical resistance
- Superior spherical visor
- Anti-scratch coating
- Six point head harness
- Can be used with a wide range of canister filters
- Two exhalation valves – low breathing resistance
- Protection foil available



FILTERS

The complete range of CleanAIR® canister filters offers a wide selection of filters for most industrial applications, pharmaceutical industry, laboratories and agriculture. The filters are supplied with a standard connection thread RD40×1/7" according to EN 148-1.

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.



Product code: **D50.500157**
Type: **A2P3**



Product code: **D50.500357**
Type: **A1P3**



Product code: **D50.500167**
Type: **A2B2P3**



Product code: **D50.500166**
Type: **A2B2E2K2HgP3**



Product code: **D50.500364**
Type: **A1B1E1P3**



Product code: **D50.500164**
Type: **A2B2E2P3**



Product code: **D50.500168**
Type: **A2B2E2K2P3**



Product code: **D50.500048**
Type: **P3**



Product code: **D50.500268**
Type: **A2B2E2K2P - ZERO**



Product code: **D50.500249**
Type: **P - ZERO**



Product code: **D50.504249**
Type: **P - ZERO lite**



COMFORT BELTS

Broad padded back part (available as well in increased height of the back part) and solid belt stripe efficiently spread the of the unit. Easy-to-click buckle, washable.

Comfort padded belt 2F	D50.710092
Comfort padded harness for 2F/3F	D50.520044.1



DECONTAMINABLE BELT AND HARNESS

Made of synthetic rubber "Hypalon" with smooth surface without edges for easy decontamination.

Decontaminable belt	D50.510051
Decontaminable harness	D50.510052



DECONTAMINATION FILTER COVER

Protects the filter against water during decontamination process – ensuring ingress protection IP65.

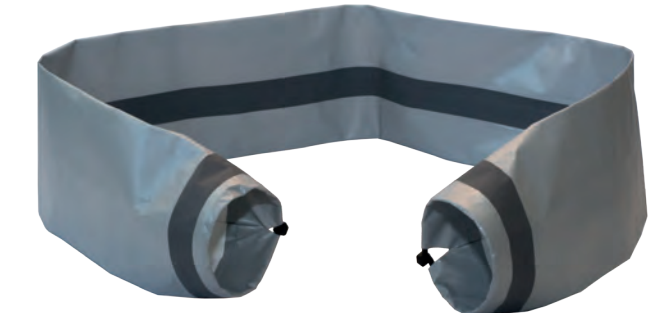
Decontamination filter cover **D50.580013**



CHEMICALLY RESISTANT HOSE COVER

Chemically resistant protective sleeve is made from Tychem-F that prevents the light hose from damage caused by splash of chemicals.

Hose cover chemical resistant **D50.700062C**



FLAMEPROOF PROTECTION

Flameproof accessories made from flame retardant fabric protect the wearer or equipment from hot sparks and welding spatter. Universal pattern for most of welding hoods and headbands.

Head cover	D50.16 40 00
Protective neck cover	D50.16 90 00



WAIST BELTS

Broad padded back part and solid belt stripe efficiently spread the weight of the unit. Easy-to-click buckle, washable.

1 Comfort padded belt Standard (Basic/Pressure)	D50.71 00 93*
2 Comfort padded belt Super, (Basic/Pressure)	D50.71 00 92
3 Comfort padded belt (AerGO®)	D50.30 00 92

* add "L" on the end of the product code and order +25 cm extended version



HEAVY-DUTY LEATHER BELTS

Thick high quality leather and a metal buckle increase the belt's durability and resistance by intensive welding in the environments with high temperatures and lot of spatter.

4 Leather comfort belt CA Basic	D50.72 00 93
5 Leather comfort belt CA AerGO®	D50.32 00 92

HOSES TO HEADTOPS

Light flexible hoses with QuickLOCK™ locking system for safe and fast connection of the full range of CleanAIR® headtops except of the full face masks.

Light flexi hose (QuickLOCK™ - CA40x1/7")	D50.71 00 60
Light flexi hose (QuickLOCK™ - CA40x1/7" extended)	D50.71 00 60L
Rubber hose (QuickLOCK™ - CA40x1/7")	D50.71 00 86
Rubber hose (QuickLOCK™ - CA40x1/7" extended)	D50.71 00 86L



PRESSURE HOSES

Range of standard or antistatic hoses of different lengths for use with air line systems CleanAIR® Pressure.

Standard pressure hose for CA Pressure – 10 m	D50.61 00 30
Standard pressure hose for CA Pressure – 25 m	D50.61 00 38
Standard pressure hose for CA Pressure – 50 m	D50.61 00 39
Antistatic pressure hose for CA Pressure – 10 m	D50.61 00 31
Antistatic pressure hose for CA Pressure – 25 m	D50.61 00 33
Antistatic pressure hose for CA Pressure – 50 m	D50.61 00 34
Spiral pressure hose for CA Pressure – 10 m	D50.61 00 46



VISOR MAINTENANCE

For care about all CleanAIR® visors. It is safe for use with all optical glasses, masks, visors and optics made of glass and plastic – even those with sensitive or coated surfaces. Cleaning, antifog and antistatic effect.

CleanAIR® Klar-pilot Fluid Super Plus 100 ml	D50.01 11 00
CleanAIR® Klar-pilot Comfort 17 ml	D50.01 10 17



SAFE TRANSPORT AND STORAGE

High quality materials and reinforced bottom for higher durability. Adjustable padded shoulder strap. Roomy main zippered compartment and large front pocket. Lightweight and versatile carrying bag. Dimensions: 250x250x520 mm

CleanAIR® Duffel Bag	D50.70 00 07
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WELDING



WELDING AND GRINDING



ARES II



GRINDING



LIGHT HEADTOPS



LIGHT HOODS



FACE SHIELDS



HALF MASK



FULL FACE MASKS

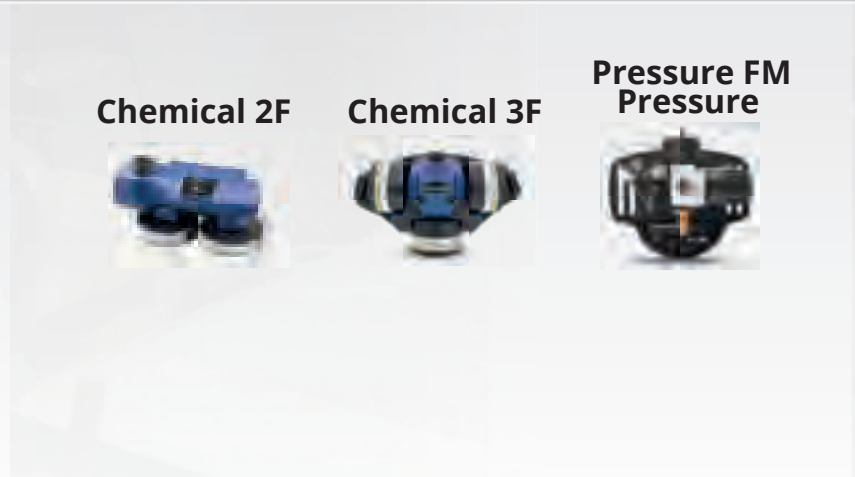


COVERALL



QUICKLOCK HOSES COMPATIBLE

CA40X1 7 HOSES COMPATIBLE





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