

The CleanAIR logo is positioned in the top right corner. It consists of the word "CleanAIR" in a white, sans-serif font, with a registered trademark symbol (®) to the upper right of the "R". The text is set against a red, rounded rectangular background.

CleanAIR®

The background of the entire page is a high-contrast, dark image of a welder at work. The welder is wearing a dark protective suit and a helmet, and is captured in the middle of a welding process. Bright orange and yellow sparks are flying out from the point of contact between the welding torch and the metal, creating a dynamic and industrial scene.

**WELDING &  
MANUFACTURING**

ENG

Ver 1.1.2



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ABOUT US

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, 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 fumes, 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 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.

HOW TO SELECT PROPER RESPIRATORY PROTECTIVE EQUIPMENT (RPE)?

(based on knowledge of Nominal Protection Factor)

1. You need to know the concentration of the hazardous substance in a workplace

2. You need to know assigned Workplace Exposure Limit (WEL)

The list of the most typical contaminants and relevant WEL's can be found in our „Filter Guide" where the information were taken from HSE publication EH40/2005 Workplace Exposure Limits, or you can source it from local authorities.

WEL's are occupational exposure limits (concentrations) of a specific airborne substance averaged over a reference period, to which workers may be exposed without experiencing significant adverse health effects. There are two reference periods for which the WELs may be set: 8-hour Time Weighted Average (TWA) and 15-minute Short Term Exposure Limit (STEL).

TWA (Time Weighted Average) – 8 hours (long term)

TWAs are set to help preventing health effects which require prolonged or accumulated exposure.

STEL (Short Term Exposure Limit) – 15 minutes (short term)

STELs are set to help prevents health effects which may be seen after short exposure (e.g. eye irritation that could occur after a few minutes) The absence of a substance from the list of WELs does not indicate that it is safe. For these substances, exposure should be controlled to a level to which nearly all the working population could be exposed, day after day at work, without any adverse effects on health.

3. You need to determine the needed minimum protection factor of RPE

For example: Powered air purifying respirator incorporating a hood classified as TH3 according to EN 12 941 has a maximum inward leakage of 0,2 %. Therefore NPF = 100 (%) : 0,2 (%)= 500.

NOMINAL PROTECTION FACTOR (NPF)

Theoretical level of protection of Respiratory Protective Equipment calculated using performance data measured in the laboratory. It indicates the mathematically calculated maximum breathing protection performance. Calculated by dividing 100 by the total value of maximum inward leakage as specified in the relevant standard.

Nominal protection factors (NPF) and assigned protection factors in different countries

DESCRIPTION / DEVICE	CLASS	NPF	ASSIGNED PROTECTION FACTORS (USED IN SOME COUNTRIES)				
			FIN	D	I	S	UK
PAPR with helmet or hood EN 12941	TH1	10	5	5	5	5	5
	TH2	50	20	20	20	20	20
	TH3	500	200	100	200	200	40
PAPR with half or full face mask EN 12942	TM1	20	10	10	10	10	10
	TM2	200	100	100	100	100	20
	TM3	2000	1000	500	400	1000	40
Continuous flow compressed airline breathing apparatus EN 14594	1A/1B	10	-	-	-	-	-
	2A/2B	50	-	-	-	-	-
	3A/3B	200	-	-	-	-	-
	4A/4B	2000	-	-	-	-	-

WHAT IS THE MAXIMUM CONCENTRATION OF THE CONTAMINANT FOR WHICH I CAN USE RESPIRATORY PROTECTION?

You can determine the maximum permissible concentration by multiplying the nominal protection factor (as found in the NPF table) by the Workplace Exposure Limit.

CAUTION!

In the case where the contaminants are present in both particle and gas form, the neccessary NPF must be established for each one separately and the higher protection factor must be applied.

EXAMPLE:

CONTAMINANT	ACETIC ANHYDRIDE (gas protection needed)
Concentration at the workplace	100 mg / m³
WEL	2,5 mg / m³
Minimum protection factor = $\frac{\text{Concentration at the workplace}}{\text{WEL}} = \frac{100}{2,5} = 40$	





# CA-20

## Superb optics & uncompromising respiratory protection

The highest optical quality 1/1/1 and superb clarity of vision in both light state and during welding. Wide field of vision thanks to enlarged lens with True Colour feature. CA-20 helmet features enhanced TIG detection optimized down to 1 amp. In-built air distribution system delivers the air right into the breathing zone with possibility of individual adjustment of airflow direction. CA-20 meets the highest standard in respiratory protection.

PRODUCT DESCRIPTION	PRODUCT CODE
Welding hood CA-20 with integrated air distribution, including ADF V9-13 DS and flexi face seal	70 20 70F
Welding hood CA-20 with integrated air distribution, including ADF V6-8/9-13 GDS and flexi face seal	70 20 81F
Welding hood CA-20 Plus with integrated air distribution, including ADF V6-8/9-13 GDS, flexi face seal and safety helmet Centurion	74 20 81
Ready to weld package of CA-20 DS with CleanAIR® AerGO® Includes standard battery, comfort belt, P R SL filters, QuickLOCK™ air hose and duffel bag	30 20 70FP
Ready to weld package of CA-20 GDS with CleanAIR® AerGO® Includes HD battery, leather belt, ABEP R SL filters, QuickLOCK™ air hose and duffel bag	30 20 81FLH

TECHNICAL DATA	
PARAMETERS	SPECIFICATION
Weight	800 g
ADF dimension	110x110 mm
Viewing area	97x67 mm
Hose connection	QuickLOCK™
Certification	EN 379 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

- Superb clarity of vision and the highest optical quality 1/1/1
- Enlarged viewing area 97x68 mm
- True colour display – improved colour perception
- Extended shade adjustment:
  - 6-8 for Oxy and Plasma cutting
  - 9-13 for welding
- Grind mode function
- Fast and easy spare parts replacement
- Advanced air distribution system
- The highest standard in respiratory protection – TH3
- 5 years warranty

## AREAS OF APPLICATION

Professional welding helmet suitable for all welding methods SMAW, MIG/MAG, TIG and Plasma.





## AVAILABLE FACE SEAL OPTIONS:

Standard face seal for covering the back part of the head, flexi face seal for comfy yet tight fit around the face.



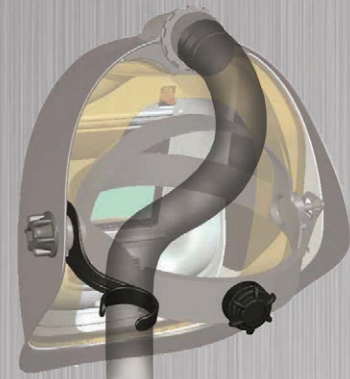
## ADVANCED AIR DISTRIBUTION SYSTEM

In-built air distribution delivers the air right into the breathing zone. The air deflector allows easy individual adjustment of airflow direction.



## HOSE HOLDER

Keeps the air hose secure and allows easy access to the headgear. Allows proper length adjustment of the hose = no more loops.



## UNIQUE FACE SEAL SYSTEM

Quick and easy replacement.



## FAST AND EASY SPARE PARTS REPLACEMENT



## SUPERB OPTICAL QUALITY 1/1/1/1

- Enlarged viewing area 97x68 mm.
- True colour display – improved colour perception.
- 100% solar powered.
- Automatic on/off – ready to weld at any time.



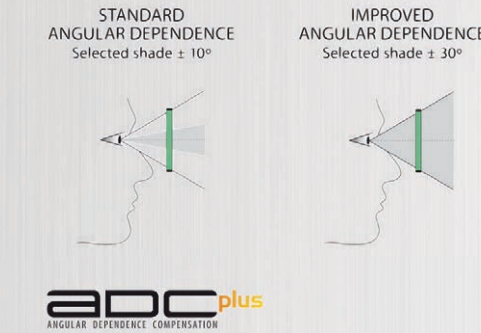
## MAGNIFYING LENS HOLDER

Adopts standard magnifying lenses 108x51 mm.



## ADC PLUS TECHNOLOGY

= improved angular dependence



## DUAL SENSORS WITH INTELLIGENT SENSING TECHNOLOGY

The smart sensors distinguish between the welding arc and ambient light.



## CA-20 GDS 6-8/9-13 EXTERNAL CONTROL

- External control
- Extended shade adjustment
  - 6-8 for Oxy and Plasma cutting
  - 9-13 for welding
- Wide range of sensitivity settings
- Delay adjustment of switching time from dark to light state
- Grind mode function



## CA-20 DS 6-8/9-13 INTERNAL CONTROL

- Shade adjustment 9-13
- Wide range of sensitivity settings
- Delay adjustment of switching time from dark to light state
- Grind mode function



## CA-20 PLUS Combination of CA-20 and safety helmet Centurion

- Well designed hard hat adaptors allow secure fit of the helmet and smooth action when lifting/lowering.
- Quick release system to attach or detach welding shield from the helmet.







## 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. In-built air distribution system delivers the air right into the breathing zone.

PRODUCT DESCRIPTION	PRODUCT CODE
Welding helmet AerTEC™ OptoMAX Air incl. ADF with air distribution, silver	70.4441.600
Welding helmet AerTEC™ OptoMAX Air incl. ADF with air distribution, black	70.4441.601
Welding helmet AerTEC™ OptoMAX incl. ADF Optrel without air distribution, silver	40.1006.500
Welding helmet AerTEC™ OptoMAX incl. ADF Optrel without air distribution, black	40.1006.501
Ready 2 Weld set - CA AerGO&OptoMAX in duffel bag	30.4441.601
Ready 2 Weld set - CA BASIC&OptoMAX in duffel bag	81.4441.601

### TECHNICAL DATA

PARAMETERS	SPECIFICATION
Weight	505 g (695 g with air distribution)
ADF dimension	110x90x7 mm
Shade level	DIN 5–13 Open state shade DIN 4
Viewing area	50x100 mm
Hose connection	QuickLOCK™
Certification	EN 379 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

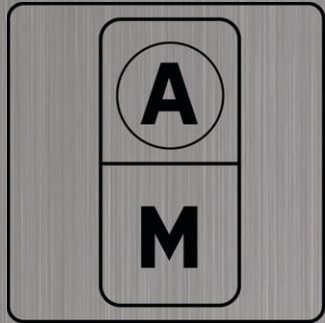
- AUTOPILOT - fully automatic shade level adjustment (DIN 5–13)
- The manual mode features extended shade range
  - 5–9 for Oxy and Plasma cutting
  - 9–13 for welding
- Ultra-HD quality with natural colour view and classification 1/1/1
- TWILIGHT dimming function - gradual light restoration reducing eye fatigue
- 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!







ADAPTIVE AUTOPILOT

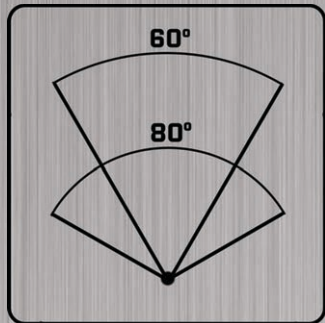
Adaptive Shade Autopilot automatically adjusts to the appropriate shade level as you weld. An additional brightness sensor immediately detects changes in arc intensity and adjusts the shade accordingly. You remain perfectly protected, regardless of the welding parameters. Manual adjustment is no longer necessary, but it's available at the push of a button whenever you want it.



ULTRA-HD ADF QUALITY

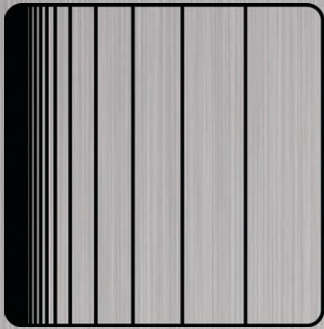
The Optrel ADFs achieve the highest image quality standard in all four classification:

Optical Quality:	CLASS 1
Light Scattering:	CLASS 1
Homogeneity:	CLASS 1
Angular dependence:	CLASS 1



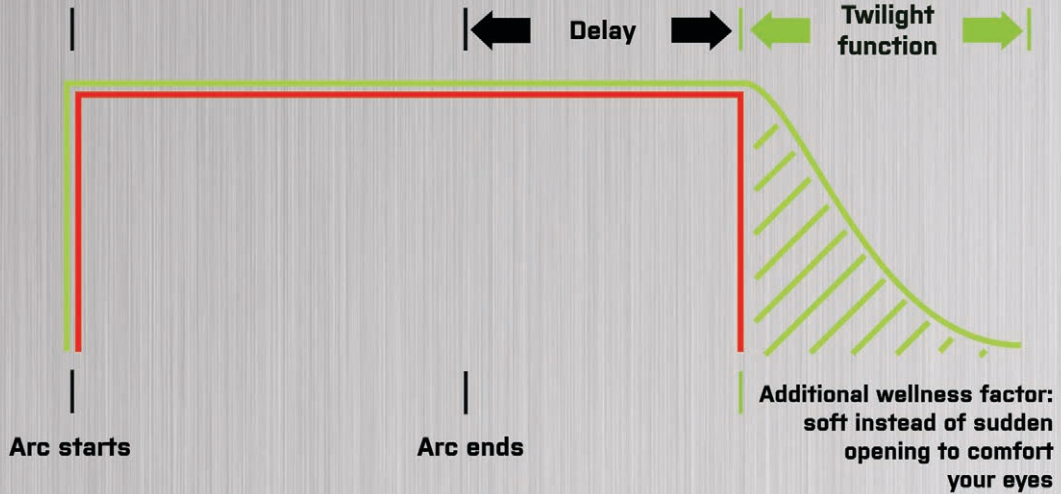
SENSOR SLIDE

The standard automatic welding filter reacts possibly unintentionally to the welding arc of another welder nearby. By using the patented sensor slide the sensor angle can be reduced from 80° to 60°. This prevents a reaction of the ADF to the welding processes in the environment of the welder.



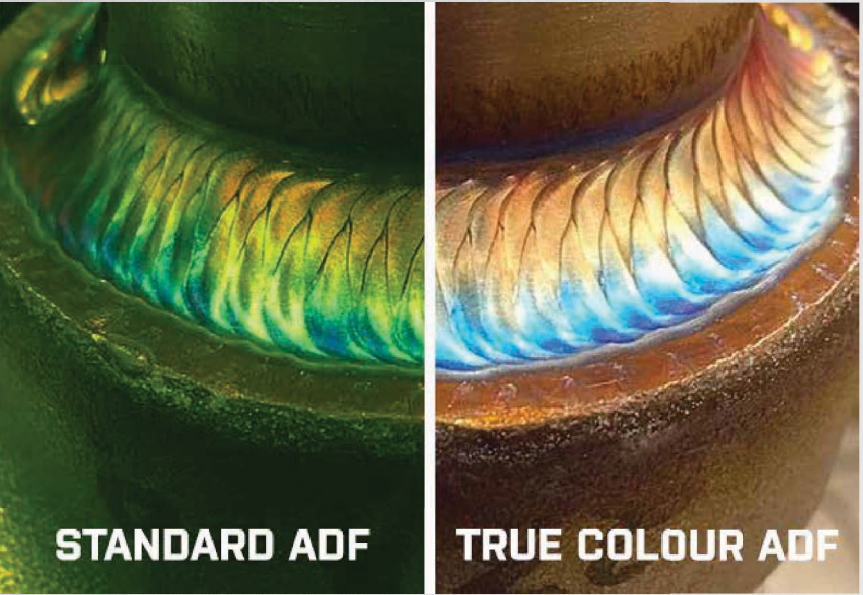
TWILIGHT FUNCTION

Stay relaxed even on fast changings of light conditions. Groundbreaking technology reduces eye fatigue automatically. Unlike other ADF lenses that rapidly return to light, the Optrel Twilight ADF Technology restores light more naturally, presenting a smooth transition to the eyes. This exclusive technology reduces eye fatigue on welders who are continuously welding, enabling them to work longer and safer.



TRUE COLOUR VIEW

A specially developed UV/IR filter allows realistic colour perception, bringing colour to the welder's world.



EXTERNAL ADJUSTMENT

All important functions at a fingertip. Shade level, grind mode or other features, which must be adjusted during welding processes, can be easily set from outside of the helmet without putting it off. A central control unit which is directly connected to the ADF is placed on the left side of the helmet shell within an easy reach of the welder.



FRONT COVER LENS

Front cover lens with integrated gasket ensures perfect seal at any time.

Front cover lens, pack of 5 pcs	40.5000.212
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MAGNIFYING LENSES

Easy to attach to the helmet, no holders needed

Magnifying lens, 1.0	40.5000.050
Magnifying lens, 1.5	40.5000.051
Magnifying lens, 2.0	40.5000.052
Magnifying lens, 2.5	40.5000.053







## 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. The in-built air distribution system delivers the air right into the breathing zone.

#### PRODUCT DESCRIPTION

PRODUCT DESCRIPTION	PRODUCT CODE
Welding helmet AerTEC™ RangeMAX Air incl. ADF with air distribution	70.4441.660
Welding helmet AerTEC™ RangeMAX incl. ADF without air distribution	40.1010.000
Ready 2 Weld set - CA AerGO®&RangeMAX in duffel bag	30.4441.660
Ready 2 Weld set - CA Basic&RangeMAX in duffel bag	81.4441.660

#### TECHNICAL DATA

PARAMETERS	SPECIFICATION
Weight	545 g (725 g with air distribution)
ADF dimension	unique specific cut-out shape
Shade level	DIN 5–12 Open state shade DIN 2,5
Viewing area	6 time wider compared to conventional ADF
Hose connection	QuickLOCK™
Certification	EN 379 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 ADF
- TWILIGHT dimming function - gradual light restoration reducing eye fatigue
- Shade level 2,5 in a inactive mode
- New energy concept with Lithium-polymere 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-27 YOGA

AerTEC™ YOGA represents a high-quality welding helmet for the price you can afford. The new concept uses a lightweight but durable welding shield in combination with high-quality auto-darkening filter AerTEC™ X100 or auto-darkening filter AerTEC™ X110 True Colour. This helmet is suitable for most of the welding methods including TIG, even with very low welding currents. In combination with powered air purifying respirators or airline systems CleanAIR® it provides an advanced level of protection against hazardous contaminants in very demanding welding environments.

PRODUCT DESCRIPTION	PRODUCT CODE
Welding hood CA-27 YOGA, including air distribution and ADF AerTEC™ X100 4/9-13	70 27 01
Welding helmet CA-27 YOGA, including air distribution and ADF AerTEC™ X110 True Colour 4/9-13	70 27 01TC
Welding helmet CA-27 YOGA incl. air distribution, w/o ADF	70 27 97
Ready to weld package of CA-27 YOGA ADF 9-13TC + CleanAIR® Basic including comfort belt, charger, battery, flow indicator, light flexi hose QuickLOCK™, duffel bag.	81 27 01TC
Ready to weld package of CA-27 YOGA ADF 9-13 + CleanAIR® Basic including comfort belt, charger, battery, flow indicator, light flexi hose QuickLOCK™, duffel bag.	81 27 01

TECHNICAL DATA	
PARAMETERS	SPECIFICATION
Weight	650 g
ADF dimension	110×90 mm
Viewing area	100×53 mm
Hose connection	QuickLOCK™
Protection factor (NPF)	50
Certification	EN 12941 TH2, EN 14594 2A/2B, EN 175 B, EN 379 1/1/2

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

## FEATURES AND BENEFITS

- Advantageous price/performance ratio
- High-quality autodarkening filter – optical quality 1/1/2
- True Colour technology ADF as an option
- Lightweight and comfortable
- Enlarged viewing area 100×53 mm
- Continuously adjustable shade 9–13
- The wide range of adjustable sensor sensitivity
- Individual delay settings
- Grinding mode

## AREAS OF APPLICATION

Suitable for most of the welding methods including TIG, even with very low welding currents.







## 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	70 28 00
Welding hood CA-28 Euromaski, shade 1,7 + 10, incl. air distribution	70 28 01
Welding hood CA-28 Euromaski, shade 3 + 8, incl. air distribution	70 28 02

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.







# CA-29 Evolve

Represents an ergonomic and lightweight flip-up combination of auto-darkening welding helmet and protective visor. Thanks to the stable flip-up welding visor it provides excelent protection for grinding, welding and subsequent surface finishing operations. The flip-up front can be lifted up onto the top of the helmet, whenever the wide undisturbed view is needed. The unique flip-up mechanism optimises the center of gravity and reduces the required space. The flip-up welding shield allows to use either auto-darkening filter or passive welding filter with standard dimension 110×90 mm. A wide curved protective visor ensures undisturbed view in all directions and meets medium impact requirements "B" as defined in EN 166. CA-29 Evolve is designed for use with CleanAIR® PAPR units or CleanAIR® airline systems to protect respiratory tract from various kinds of harmful airborne contaminants.

PRODUCT DESCRIPTION	PRODUCT CODE
Welding hood CA-29 Evolve, incl. air distribution and ADF V9-13 DS ADC	70 29 01
Welding helmet CA-29, ADF AerTEC™ X100 V9-13, incl. air distribution	70 29 02
Welding helmet CA-29, ADF AerTEC™ X110 V9-13 True Colour, incl. air distribution	70 29 02TC
Welding hood CA-29 Evolve, incl. air distribution and passive filter No. 10	70 29 00

TECHNICAL DATA	
PARAMETERS	SPECIFICATION
Weight	560 g
ADF dimension	110×90 mm
Viewing area	95x46,5 mm Balder V9-13DS 100×53 mm AerTEC™ X100/X110 V9-13
Grinding shield dimensions	165x95 mm
Hose connection	QuickLOCK™
Protection factor	50
Certification	EN 12941 TH2, EN 14594 2A/2B, EN 175 B, EN 166 B, EN 379 1/1/1/2

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

## FEATURES AND BENEFITS

- Combines welding and grinding protection
- Compact and durable design
- Low weight, well balanced, comfortable
- Large curved visor 170×95 mm
- Compatible with autodarkening or passive filters 110×90 mm
- Comfortable and easily adjustable headband
- Easily exchangeable spare parts
- Compatible with CleanAIR® PAPRs and airline systems

## AREAS OF APPLICATION

Welding hood CA-29 finds application in many sectors like building industry, automotive industry, shipbuilding industry, heavy industrial environments, etc. It is suitable for most of welding methods and subsequent cleaning and grinding operations.







# ARES II

## Heavy-duty welding hood

This robust leather welding hood incorporating easily removable safety helmet ensures uncompromising respiratory and upper body protection where the welder's safety is the highest priority. Perfect for application in tight spaces – thanks to compact design and removable safety helmet it allows you to squeeze into spaces where access with conventional helmet is not possible. It is compatible with the airline system CleanAIR® Pressure ARES.



PRODUCT DESCRIPTION	PRODUCT CODE
CleanAIR® Pressure ARES - unit with belt and flow indicator	66 00 00
CleanAIR® Pressure ARES - unit only	66 00 00W
CleanAIR® ARES II leather welding hood, visor 110x60, removable hard hat	71 83 60
CleanAIR® ARES II leather welding hood, visor 110x90, removable hard hat	71 83 90
Ready to weld package - ARES II, 60 mm visor and Pressure ARES regulator	66 83 60
Ready to weld package - ARES II, 90 mm visor and Pressure ARES regulator	66 83 90

TECHNICAL DATA - HOOD ARES II	
PARAMETERS	SPECIFICATION
Weight	1 440 g
Material	hood – high quality leather welding frame – polyamide
Welding filter dimensions	110×60 / 110×90 mm
Hose connection	compatible with MINI DN 5 (CEJN 223)
Certification	EN 14594 - class 3B, EN 166 1B, EN 175, EN 170, EN ISO 11611 - class 2

TECHNICAL DATA – PRESSURE ARES	
PARAMETERS	SPECIFICATION
Air flow	adjustable 160–250 lpm
Inlet pressure	400–1 000 kPa
Weight	312 g
Inlet connection	compatible with RECTUS 25, 26 and CEJN 320
Outlet connection	compatible with MINI DN 5 (CEJN 223)
Certification	EN 14594, class 3B

### APPROVED COMBINATIONS

CleanAIR®  
Pressure ARES

### FEATURES AND BENEFITS

- Multiple protection – head, eye, face, respiratory and hearing
- Innovative air distribution ensuring high breathing comfort
- Available with two different sizes of welding filter opening – 110×90 mm and 110×60 mm
- Compatible with auto-darkening or passive filters
- Stable flip-up welding frame
- Resistant against radiant heat and welding spatter – class 2 according to EN ISO 11611
- Individually adjustable airflow in the wide range 160–250 lpm
- Low pressure warning signal

### AREAS OF APPLICATION

Professional welding hood suitable for all welding methods including TIG, even with very low welding currents, suitable for use in the narrow spaces.







# 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	70 42 00
Safety helmet CA-40GW with welding shield and grinding visor, including ADF Balder V9-13	70 42 01
Safety helmet CA-40G with grinding visor	70 41 00
Safety helmet CA-40 with welding shield, w/o ADF	70 40 00
Safety helmet CA-40 with welding shield, including ADF Balder V9-13	70 40 01

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 1/1/2, 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
- Comtaptible 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 excelent 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	70 42 00
Safety helmet CA-40GW with welding shield and grinding visor, including ADF Balder V9-13	70 42 01



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	70 40 00
Safety helmet CA-40 with welding shield, with ADF Balder V9-13	70 40 01



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 excelent 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	70 41 00
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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 excelent 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	70 41 03
Spare grinding visor for CA-40, class 1, yellow	70 41 04
Spare grinding visor for CA-40, class 1, shade 4	70 41 05
Spare grinding visor for CA-40, class 1, shade 5	70 41 06

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	40 51 00
Auto-darkening welding filter AerTEC™ X110 true colour, 9-13	40 51 10



OPTIONAL HEARING PROTECTION

<b>Earmuffs Secure 1C</b> - For long term use in low noise level or shorter periods in medium noise level environments.	71 40 40
<b>Earmuffs Secure 2C</b> - For long term use in medium noise level or shorter periods in high noise level environments. Best choice in high frequency dominated noise.	71 40 41
<b>Earmuffs Secure 3C</b> - For use in high noise level environments. Best choice in low frequency dominated noise.	71 40 42



EXTEND YOUR PROTECTION

You can choose from two different neck and throat protectors.

Neck and throat protection made from flame retardant fabric	70 40 65
Neck and throat protection made from high durable leather	70 40 65L





# 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 CODE
Protective face shield UniMask, grey	72 03 00.01
Protective face shield UniMask, blue	72 03 00.02
Protective face shield UniMask, orange	72 03 00.03
Protective face shield UniMask, red	72 03 00.04
Protective face shield UniMask, neoprene	72 03 00.08
Ready 2 Work set - CA AerGO&UniMask in transport case	30 03 00.01
Ready 2 Work set - CA Chemical 2F&UniMask in transport case	51 03 48.08

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 1 B FT K N

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

## 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.

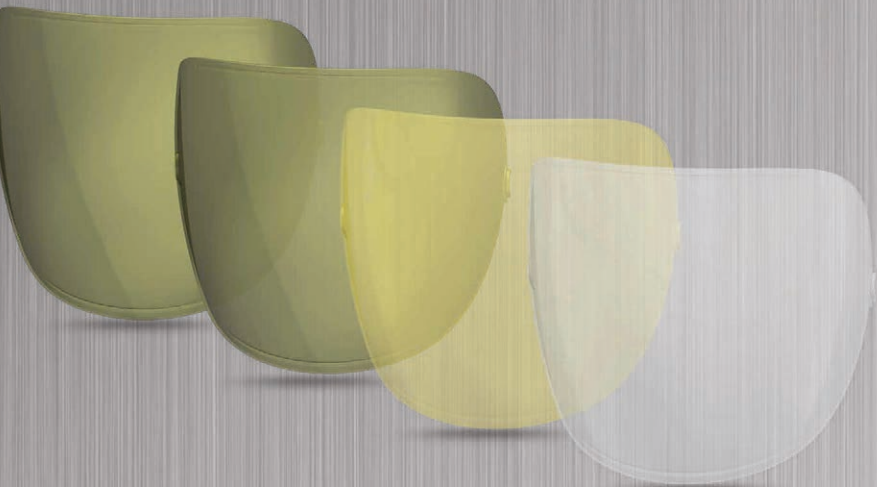




TORIC VISOR WITH AN EXCELLENT OPTICAL QUALITY

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 / antiscratch coating and guarantees excellent field of vision and increased durability. It provides protection against high-speed particles with medium energy.

Spare protective visor UniMask, clear	72 03 30
Spare protective visor UniMask, yellow	72 03 30.01
Spare protective visor UniMask, shade 3	72 03 30.02
Spare protective visor UniMask, shade 5	72 03 30.03



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 maschine 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 absorbtion of the sweat and is available in four colour options.

Face seal UniMask, grey	72 03 50.01
Face seal UniMask, blue	72 03 50.02
Face seal UniMask, orange	72 03 50.03
Face seal UniMask, red	72 03 50.04

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

Face seal UniMask, neoprene	72 03 50.08
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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™ 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	PRODUCT CODE
Grinding shield AerTEC™ SeeMAX including head gear and air distribution	70.4900.020
Ready 2 Work set - CA BASIC&SeeMAX in duffel bag	81.4900.020

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 an 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-3

## Spacy shield with an unlimited view

This popular light protective shield with a wide polycarbonate visor provides face and respiratory protection in grinding operations. The wide polycarbonate visor offers a clear and broad field of vision, mechanical resistance and protection against impact of high-speed particles with medium energy. Changing the visor is easy and does not require any special skills. The wearers appreciate its spaciousness and comfort due to the soft sweatband and adjustable headgear.

### PRODUCT DESCRIPTION

Grinding shield CA-3 (polycarbonate)

### PRODUCT CODE

71 03 00

### TECHNICAL DATA

PARAMETERS	SPECIFICATION
Weight	520 g
Material	shield body – polyamide headgear – polyamide visor – polycarbonate
Protection factor [NPF]	50
Hose connection	QuickLOCK™
Certification	EN 12941 TH2 EN 14594 2A EN 166 BT

### APPROVED COMBINATIONS

CleanAIR®  
AerGO®



CleanAIR®  
Basic



CleanAIR®  
Pressure Flow Master



## FEATURES AND BENEFITS

- Broad field of vision
- Light and spacious shield
- High chemical resistance
- Easily exchangeable visor
- Comfortable adjustable headgear
- Soft headband

## AREAS OF APPLICATION

CA-3 can be used in any dusty environments without the necessity to protect neck and shoulders. It is suitable for grinding, surface finishing operations, for building industry, even in heavy industrial conditions.







# CA-4

## Lightweight industrial safety helmet with air distribution

The helmet can be equipped with further safety elements: an additional flip-up polycarbonate visor for protection of eyes against impacts of particles with medium energy, earmuffs and a long cape for protection of the neck. The wide panoramic visor with an anti-fog coating enables a good orientation. The helmet fits well thanks to the adjustable headgear and is provided with a sweatband.

PRODUCT DESCRIPTION	PRODUCT CODE
Safety helmet CA-4	71 04 01
Safety helmet CA-4 with long protective hood	71 04 00V
* If blue face seal required, add "B" to the end of the product code	

TECHNICAL DATA	
PARAMETERS	SPECIFICATION
Weight	850 g
Material	inner visor - cellulose propionate flip-up visor - acetate / polycarbonate hard hat - polyethylene head harness - textile face seal - polyester with PVC coating
Protection factor (NPF)	50
Hose connection	QuickLOCK™
Certification	EN 12941 TH2 EN 14594 3A EN 166 1B EN 397

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

## FEATURES AND BENEFITS

- Wide field of vision
- Anti-fog coating
- Comfortable adjustable headgear

## AREAS OF APPLICATION

The hood can be used in all dusty environments where safety helmet is required: namely in building industry, surface finishing operations and other heavy industrial environments.





# 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	72 01 02
Short protective hood CA-1, blue	72 01 02B
Long protective hood CA-2, orange	72 01 02
Long protective hood CA-2, blue	72 01 02B

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.

## SHORT HOOD CA-1



## LONG HOOD CA-2







# 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	30 00 00P
CleanAIR® AerGO® incl. leather belt, Li-Ion battery, charger, QuickLOCK™ air hose and P R SL filters	30 00 00L
CleanAIR® AerGO® incl. leather belt, Heavy Duty Li-Ion battery, charger, QuickLOCK™ air hose and A1B1E1P R SL filters	30 00 00LH

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	CA40x1/7"
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)	30 03 57
Filter AerGO® A1B1E1P R SL - OZONE (pack of 2 pcs)	30 03 64

\* Protection against ozone up to the concentration of 20 mg/m³ (10 ppm)



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	31 00 13
Heavy Duty battery, Li-Ion 14,4 V / 5,2 Ah	31 00 23



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®	30 00 92
Heavy Duty Leather belt CleanAIR® AerGO®	32 00 92



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.







## 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

CleanAIR® Basic incl. comfort belt, Li-Ion battery, charger, QuickLOCK™ air hose and P R SL filter

CleanAIR® Basic incl. leather belt, Li-Ion battery, charger, QuickLOCK™ air hose and P R SL filter

### PRODUCT CODE

81 00 00P


81 00 00L

### 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 / 5,2 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 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







# 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)	63 00 00
CleanAIR® Flow Master including accessories (comfort belt and flow indicator)	67 00 00
CleanAIR® Pressure Conditioner with stand	61 00 50

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	CA40×1/7"	CA40×1/7"	2× outlet compatible with RECTUS 25, 26 and CEJN 320
Certification	EN 14594, class 3B	EN 14594, class 2A	-

AVAILABLE FILTER TYPE	
<b>COMBINED</b> Pressure Conditioner filter	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.



## 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





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	16 40 00
Protective neck cover	16 90 00



WELDING GLOVES MIG/MAG  
AerTEC™ AT-110

Made from high quality cowsplit leather, with wing thumb and reinforced seams. Jersey lining to palm, with cotton lining to cuff, kevlar stitched.

Certification: EN 12477 B, EN 368 – 2112X, EN 407 – 41XX4X

Welding gloves MIG/MAG AerTEC™ AT-110 size 10	AT0110-010
Welding gloves MIG/MAG AerTEC™ AT-110 size 11	AT0110-011



WELDING GLOVES TIG  
AerTEC™ AT-220

Made from high quality sheep skin. The gunn cut pattern with straight thumb makes easy tog rip objects and the wraparound first finger ensures greater abrasion resistance and dexterity.

Certification: EN 12477 A, EN 368 – 4244X, EN 407 – 413X4X

Welding gloves TIG AerTEC™ AT-220 size 09	AT0220-009
Welding gloves TIG AerTEC™ AT-220 size 10	AT0220-010
Welding gloves TIG AerTEC™ AT-220 size 11	AT0220-011



COMFORT PADDED 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)	71 00 93*
② Comfort padded belt Super (Basic/Pressure)	71 00 92
③ Comfort padded belt (AerGO®)	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 a lot of spatter.

④ Leather comfort belt CA Basic	72 00 93
⑤ Leather comfort belt CA AerGO®	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")	71 00 60
Light flexi hose (QuickLOCK™ - CA40x1/7" extended)	71 00 60L
Rubber hose (QuickLOCK™ - CA40x1/7")	71 00 86
Rubber hose (QuickLOCK™ - CA40x1/7" extended)	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	61 00 30
Standard pressure hose for CA Pressure – 25 m	61 00 38
Standard pressure hose for CA Pressure – 50 m	61 00 39
Antistatic pressure hose for CA Pressure – 10 m	61 00 31
Antistatic pressure hose for CA Pressure – 25 m	61 00 33
Antistatic pressure hose for CA Pressure – 50 m	61 00 34
Spiral pressure hose for CA Pressure – 10 m	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	01 11 00
CleanAIR® Klar-pilot Comfort 17 ml	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: 250×250×620 mm

CleanAIR® Duffel Bag	70 00 07
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Welding

CA-20 DS      CA-40      CA-27 YOGA



Welding & grinding

CA-20 GDS      OptoMAX      RangeMAX



CA-40GW      CA-29      CA-28

ARES II



Grinding

CA-40G      CA-4      SeeMAX



CA-3      UniMask

Light headtops

CA-1      CA-2



AerGO®



Basic



Pressure  
Pressure FM



Pressure ARES



AerGO®



Basic



Pressure  
Pressure FM



PARTS AND ACCESSORIES

CleanAIR® AerGO®		
Pre-filter holder, spark arrestor, pre-filter – a set of 2+2+2 pcs	30 00 30	
Pre-filter CleanAIR® AerGO® (10 pcs)	30 00 15	
Pre-filter CleanAIR® AerGO® (50 pcs)	30 00 15/50	
Spark arrestor (10 pcs)	30 00 20	
Heavy duty leather belt	32 00 92	
Comfort belt for CleanAIR® AerGO®	30 00 92	
Battery Li-Ion Standard 14,4 V / 2,6 Ah	31 00 13	
Battery Li-Ion Heavy Duty 14,4 V / 5,2 Ah	31 00 23	
Battery charger, new multi-plug (compatible with 31 00 13/23 batteries)	31 00 30	
Particle filter P R SL TR-110 thread (pack of 2 pairs)	30 00 10/2	
Combined filter A1P R SL TR-110 thread (set of 2 pcs)	30 03 57	
Combined filter A1B1E1P R SL TR-110 thread (set of 2 pcs)	30 03 64	

CleanAIR® Basic		
CleanAIR® Basic incl. comfort belt, battery charger, battery, QL hose and particle filter	81 00 00P	
CleanAIR® Basic battery charger	71 00 30	
Light flexi hose QuickLOCK™ - CA40x1/7"	71 00 60	
Comfort padded belt Standard	71 00 93	
Comfort padded belt Standard - extended	71 00 93L	
Heavy Duty leather belt	72 00 93	
Pre-filter (set of 10 pcs)	80 00 15	
Odour filter (set of 10 pcs)	80 00 20	
CleanAIR® Basic filter cover	81 00 30	
CleanAIR® Basic battery Li-Ion 7,2 V / 5,2 Ah	81 00 17	
Filter P R SL for CleanAIR® Basic (pack of two)	80 00 10/2	
Filter P R SL for CleanAIR® Basic (pack of twenty)	80 00 10/20	

CleanAIR® Pressure		
CleanAIR® Pressure including belt	63 00 00	
CleanAIR® Flow Master including comfort belt	67 00 00	
Belt for CleanAIR® Pressure	70 00 95	
Noise silencer	63 00 10	
Light flexi hose QuickLOCK™ - CA40x1/7"	71 00 60	
Rubber hose QuickLOCK™ – CA40×1/7"	71 00 86	
Comfort padded belt	71 00 93	
Leather comfort belt	72 00 93	

CleanAIR® Pressure Conditioner		
CleanAIR® Pressure Conditioner with stand	61 00 50	
CleanAIR® Pressure Conditioner - sealing O-ring 139x3 mm	61 00 24	
CleanAIR® Pressure Conditioner - sealing O-ring 30x4 mm	61 00 28	
Standard hose 10 m for CAP	61 00 30	
Standard hose 25 m for CAP	61 00 38	
Standard hose 50 m for CAP	61 00 39	
Antistatic hose 10 m for CAP	61 00 31	
Antistatic hose 25 m for CAP	61 00 33	
Antistatic hose 50 m for CAP	61 00 34	
Spiral hose 10 m for CAP, mechanically resistant	61 00 46	
Filtr pro CleanAIR® Pressure Conditioner	61 00 10	

CleanAIR® CA-1, CA-2		
Short protective hood CA-1, orange	72 01 02	
Short protective hood CA-1, blue	72 01 02B	
Long protective hood CA-2, orange	72 02 02	
Long protective hood CA-2, blue	72 02 02B	
Sweatband for light hoods - pack of 5 pcs	16 70 03/5	
Protection foil – 10 pcs	70 01 20/10	
Headgear for light hoods CleanAIR®, adjustable	72 00 01	

CleanAIR® CA-3		
Grinding shield CA-3 (polycarbonate)	71 03 00	
Sweatband CleanAIR® (pack of 10 pcs)	16 70 01/10	
Face seal for welding hoods - universal	70 21 53	
CA-3 Spare visor polycarbonate	71 03 30	
CA-3 Headband	71 03 41	

CleanAIR® CA-4		
Safety helmet CA-4	71 04 01	
Safety helmet CA-4 with long protective hood	71 04 00V	
Sweatband CleanAIR® (pack of 10 pcs)	16 70 01/10	
Protection film (pack of 10 pcs)	70 01 20/10	
Holder of the flip-up visor	70 04 37	
Flip-up visor Surefit – polycarbonate	70 04 42	
Face seal including visor – orange	71 04 61*	
Earmuffs including adaptors for safety helmet	70 04 40.2	

CleanAIR® CA-20		
Welding hood CA-20 with integrated air distribution including ADF Balder Grand V9-13 DS	70 20 70	
Welding hood CA-20 with integrated air distribution including ADF Balder Grand V6-8/9-13 GDS	70 20 81F	
Welding hood CA-20 Plus with integrated air distribution, including ADF V6-8/9-13 GDS, flexi face seal and safety helmet Centurion	74 20 81	
Welding hood Balder BH3 Grand DS including ADF Balder Grand V9-13 DS	40 20 70	
Welding hood Balder BH3 Grand GDS including ADF Balder Grand V6-8/9-13 GDS	40 20 80	
Sweatband CleanAIR® (pack of 10 pcs)	16 70 01/10	
Auto-darkening filter Balder V9-13 DS ADC Plus	40 50 70	
Auto-darkening filter Balder V9-13 GDS ADC Plus	40 50 80	
Centurion hard hat adaptor set	70 20 35	
Centurion hard hat	70 20 34	
Front frame for CA-20 / BH3	70 20 31	
Hose holder	70 20 32	
Face seal for welding hood CA-20 - flexi	70 20 60F	
Face seal for welding hood CA-20 - standard	70 20 60	
Protection plate external	70 20 71	
Protection plate internal, 107,5x71,5 mm	70 20 72	
Magnifying lens 1,0 D BH3 107×51 mm	70 20 74	
Magnifying lens 1,5 D BH3 107×51 mm	70 20 75	
Magnifying lens 2,0 D BH3 107×51 mm	70 20 76	
Magnifying lens 2,5 D BH3 107×51 mm	70 20 77	
Magnifying lens holder for BH3	70 20 78	
Headband for CA-20, incl. set of sweatbands	70 25 41	

AerTEC™ OptoMAX		
Welding helmet AerTEC™ OptoMAX Air including OptoMAX ADF, with air distribution, black	70.4441.601	
Welding helmet AerTEC™ OptoMAX Air including OptoMAX ADF, with air distribution, silver	70.4441.600	
Welding helmet AerTEC™ OptoMAX including OptoMAX ADF, without air distribution, black	40.1006.501	
Welding helmet AerTEC™ OptoMAX including OptoMAX ADF, without air distribution, silver	40.1006.500	
Helmet shell AerTEC™ OptoMAX w/o ADF - black	40.5001.610	
Helmet shell AerTEC™ OptoMAX w/o ADF - silver	40.5001.684	
PAPR helmet shell AerTEC™ OptoMAX w/o ADF - silver	70.4441.684	
PAPR helmet shell AerTEC™ OptoMAX w/o ADF - black	70.4241.007	
Faceseal for AerTEC™ OptoMAX	40.4160.000	
Inside cover lens AerTEC™ OptoMAX (set of 5)	40.5000.001	
Front cover lens AerTEC™ OptoMAX (set of 5)	40.5000.212	

Magnifying lens, +1.0 - OptoMAX	40.5000.050
Magnifying lens, +1.5 - OptoMAX	40.5000.051
Magnifying lens, +2.0 - OptoMAX	40.5000.052
Magnifying lens, +2.5 - OptoMAX	40.5000.053
Comfort head band - black, AerTEC™ RangeMAX/OptoMAX/SeeMAX	40.5003.250
Sweatband back for AerTEC™ RangeMAX/SeeMAX/OptoMAX (2 pc)	40.5004.020
Sweatband front for AerTEC™ RangeMAX/SeeMAX/OptoMAX (2 pc)	40.5004.073
Auto-darkening welding filter AerTEC™ OptoMAX (SN 4/5-13 Autopilot)	40.5012.480

AerTEC™ RangeMAX		
Welding helmet AerTEC™ RangeMAX Air including RangeMAX ADF, with air distribution	70.4441.660	
Welding helmet AerTEC™ RangeMAX including RangeMAX ADF, without air distribution	40.1010.000	
Sweatband back for AerTEC™ RangeMAX/SeeMAX/OptoMAX (2 pc)	40.5004.020	
Sweatband front for AerTEC™ RangeMAX/SeeMAX/OptoMAX (2 pc)	40.5004.073	
Magnifying lens, +1.0 - RangeMAX	40.5000.150	
Magnifying lens, +1.5 - RangeMAX	40.5000.151	
Magnifying lens, +2.0 - RangeMAX	40.5000.152	
Magnifying lens, +2.5 - RangeMAX	40.5000.153	
Faceseal for AerTEC™ RangeMAX	40.4160.400	
Comfort headband - black, AerTEC RangeMAX/OptoMAX/SeeMAX	40.5003.250	
Inside cover lens AerTEC RangeMAX (set of 5)	40.5000.010	
Front cover lens AerTEC RangeMAX (set of 5)	40.5000.270	

AerTEC™ CA-27 YOGA		
Welding hood AerTEC® YOGA including ADF AerTEC® X100 4/9–13	40 27 01	
Welding hood CA-27, including air distribution and ADF AerTEC® X100 4/9–13	70 27 01	
Protection plate external for CA-27 YOGA (114x104 mm)	*114/104	
Protection plate internal for CA-27 YOGA (106x58 mm)	*106/58	
Welding hood AerTEC® YOGA - w/o air distribution, w/o ADF	40 27 97	
Auto-darkening welding filter AerTEC™ X100 4/9–13	40 51 00	
Auto-darkening welding filter AerTEC™ X110 true colour, 9-13	40 51 10	
Assembly kit for a welding hood incl. face seal and airduct	44 00 85QL	
Face seal for welding helmet – universal	70 21 53	
Headband AerTEC™ YOGA	70 27 41	
Welding hood CA-27 YOGA - incl. air distribution, w/o ADF	70 27 97	

CleanAIR® CA-28 Euromaski		
Welding hood CA-28 Euromaski, shade 1,7 + 8, incl. air distribution	70 28 00	



Welding hood CA-28 Euromaski, shade 1,7 + 10, incl. air distribution	70 28 01
Welding hood CA-28 Euromaski, shade 3 + 8, incl. air distribution	70 28 02
Welding hood CA-28 Euromaski, shade 1,7 + 8, w/o air distribution	40 28 00
Welding hood CA-28 Euromaski, shade 1,7 + 10, w/o air distribution	40 28 01
Welding hood CA-28 Euromaski, shade 3 + 8, w/o air distribution	40 28 02
Flip-up visor frame CA-28 Euromaski	4028 – 201
Main visor CA-28 Euromaski – shade 1,7	4028 – 202
Main visor CA-28 Euromaski – shade 3	4028 – 203
Main visor CA-28 Euromaski – shade 5	4028 – 204
Flip-up visor CA-28 Euromaski – shade 5	4028 – 216
Flip-up visor CA-28 Euromaski – shade 8	4028 – 205
Flip-up visor CA-28 Euromaski – shade 9	4028 – 224
Flip-up visor CA-28 Euromaski – shade 10	4028 – 206
Flip-up visor CA-28 Euromaski – shade 11	4028 – 225
Mounting screws for the flip-up visor CA-28 Euromaski	4028 – 207
Locking pin for the flip-up visor CA-28 Euromaski	4028 – 208
Assembly kit for headband CA-28 Euromaski	4028 – 215
Main visor CA-28 Euromaski – transparent	4028 – 219
Main visor CA-28 Euromaski – smoky	4028 – 2191
Locking pin for the main visor CA-28 Euromaski	4028 – 209
VR-1 welding filter CA-28 Euromaski – shade 8	4028 – 2100
VR-1 welding filter CA-28 Euromaski – shade 10	4028 – 2200
VR-1 welding filter CA-28 Euromaski – shade 12	4028 – 2300
Headband CA-28 Euromaski	4028 – 2171
<b>CleanAIR® CA-29 Evolve</b>	
Welding hood Evermatic Evolve with passive filter No. 10, w/o air distribution	40 29 00
Welding hood Evermatic Evolve with ADF V9-13 DS ADC, w/o air distribution	40 29 01
Welding hood CA-29 Evolve, incl. air distribution and passive filter No. 10	70 29 00
Welding hood CA-29 Evolve, incl. air distribution and ADF V9-13 DS ADC	70 29 01
Front safety plate - 110x90 mm / 1 mm	*110/90/1
Auto-darkening welding filter AerTEC™ X100 4/9–13	40 51 00
Auto-darkening welding filter AerTEC™ X110 true colour	40 51 10
Sweatband CleanAIR® - pack of 10 pcs	16 70 01/10
Auto darkening filter Balder V9-13 ADC	40 50 25
Grinding visor, polycarbonate	70 29 20
Faceseal for welding hoods - universal	70 21 53

Headband CA-29 Evolve, incl. set of sweatbands	70 29 41
Assembly kit for headband Evolve	70 29 42
Flip-up welding visor	70 29 45
Airduct QuickLOCK™	71 04 50QL
<b>CleanAIR® ARES II</b>	
CleanAIR® Pressure Ares - unit with belt	66 00 00
CleanAIR® ARES II leather welding hood, visor 110x60, removable hard hat	71 83 60
CleanAIR® ARES II leather welding hood, visor 110x90, removable hard hat	71 83 90
Outer protection foil - 110 x 60 mm / 1,0 mm	*110/60/1,0
Outer protection foil - 110 x 90 mm / 1,0 mm	*110/90/1,0
Comfort padded belt Standard	71 00 93
Hard hat for CleanAIR® ARES II	71 83 10
Sweatband CleanAIR® - pack 10 pcs	71 83 16/10
Headband for CleanAIR® ARES II	71 83 41
Hard hat fixing set	71 83 11
Spare adjustable strip	71 83 44
Spare welding visor 110x60 (90) mm including grinding frame	71 83 67 (97)
Ear protection - Peltor Optime III	XH001650841
<b>CleanAIR® CA-40</b>	
Safety helmet CA-40 with welding shield	70 40 00
Safety helmet CA-40 with welding shield (including ADF Balder V9-13 ADC)	70 40 01
Safety helmet CA-40G with grinding shield	70 41 00
Safety helmet CA-40GW with grinding and welding shield	70 42 00
Safety helmet CA-40GW with grinding and welding shield (including ADF Balder V9-13 ADC)	70 42 01
Auto-darkening filter V913 DS ADC	40 50 40
Auto-darkening welding filter AerTEC™ X100 4/9–13	40 51 00
Auto-darkening welding filter AerTEC™ X110 true colour	40 51 10
Inner cover plate, 107x51 polycarb. (10 pcs) for CA-40, CA-40GW	70 24 81
CA-40 spare welding shield	70 40 02
Fixing screws 2 pcs	70 40 43
Sweatband CA-40	70 40 44
Outer cover plate polycarb. (10 pcs) for CA-40, CA-40GW	70 40 80
Headband for CA-40	70 40 41x
CA-40 face seal	70 40 60
Spare grinding visor for CA-40, class 1, clear	70 41 03
Spare grinding visor for CA-40, class 1, yellow	70 41 04

Spare grinding visor for CA-40, class 1, shade 4	70 41 05
Spare grinding visor for CA-40, class 1, shade 5	70 41 06
Welding shield (for version CA-40GW)	70 42 02
Earmuffs Secure 1C, No. 8	71 40 40
Earmuffs Secure 2C, No. 10	71 40 41
Earmuffs Secure 3C, No. 12	71 40 42
Passive welding filter, (Put 09 - 13 instead of ** welding filter darkness)	110/90-**
<b>AerTEC™ SeeMAX</b>	
Grinding shield AerTEC™ SeeMAX Air including air distribution	70.4900.020
Face seal for AerTEC™ SeeMAX	40.4156.010
Tear off foil AerTEC™ SeeMAX (set of 10)	40.5000.039
Polycarbonate grinding visor	40.5000.038
Spare visor (DIN 5) AerTEC™ SeeMAX 2 pc	40.5000.048
Spare visor (DIN 3) AerTEC™ SeeMAX 2 pc	40.5000.049
Comfort headband - black, AerTEC™ RangeMAX/OptoMAX/SeeMAX	40.5003.250
Sweatband front for AerTEC™ RangeMAX/SeeMAX/OptoMAX (2 pc)	40.5004.073
Sweatband back for AerTEC™ RangeMAX/SeeMAX/OptoMAX (2 pc)	40.5004.020

<b>CleanAIR® UniMask</b>	
Protective face shield UniMask, grey	72 03 00.01
Protective face shield UniMask, blue	72 03 00.02
Protective face shield UniMask, orange	72 03 00.03
Protective face shield UniMask, red	72 03 00.04
Protective face shield UniMask, neoprene	72 03 00.08
Protection film UniMask, pack of 10 pcs	72 03 20/10
Spare protective visor UniMask, clear	72 03 30
Spare protective visor UniMask, yellow	72 03 30.01
Spare protective visor UniMask, shade 3	72 03 30.02
Spare protective visor UniMask, shade 5	72 03 30.03
Head band UniMask	72 03 40
Face seal UniMask, grey	72 03 50.01
Face seal UniMask, blue	72 03 50.02
Face seal UniMask, orange	72 03 50.03
Face seal UniMask, red	72 03 50.04
Face seal UniMask, neoprene	72 03 50.08
<b>Welding gloves</b>	
Welding gloves MIG/MAG AerTEC AT-110 size 10	AT0110-010
Welding gloves MIG/MAG AerTEC AT-110 size 11	AT0110-011
Welding gloves TIG AerTEC™ AT-220 size 9	AT0220-009
Welding gloves TIG AerTEC™ AT-220 size 10	AT0220-010
Welding gloves TIG AerTEC™ AT-220 size 11	AT0220-011
<b>Common - spare parts / accessories</b>	
CleanAIR® Klar-pilot Fluid Super Plus 100 ml	01 11 00
CleanAIR® Klar-pilot Comfort 17 ml	01 10 17
Head cover	16 40 00
Protective neck cover	16 90 00
Flow indicator CA40x1/7"	52 00 90
CleanAIR® Duffel Bag	70 00 07
Hose cover flameproof	70 00 62F
QuickLOCK™ - rubber hose, extended	71 00 86L
QuickLOCK™ - rubber hose	71 00 86
QuickLOCK™ - light flexi hose, extended	71 00 60L
QuickLOCK™ - light flexi hose	71 00 60



## NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## NOTES

This image shows a full page of a handwriting practice worksheet. It consists of multiple rows of horizontal dashed lines spaced evenly down the page, providing a guide for letter height and placement. The background is plain white, and there are no other markings or text present.



## NOTES

[illegible]



**CleanAIR<sup>®</sup>**



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**WELDING &  
MANUFACTURING**

