PERSONAL RESPIRATORY PROTECTION SYSTEMS







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### CleanAIR®

#### CleanAIR® is a trademark of MALINA – Safety s.r.o.,

which has specialized in the design and development of powered air purifying respirators for personal protection in exhausting industrial environments, chemical, pharmaceutical, food processing industry and agriculture since 1993. Long-term experience in the health and safety sector, with our own research and development department ensuring quality management standards ISO 9001 and AQAP 2110 are met, guarantee the high quality of the products and progressive solutions. MALINA – Safety s.r.o. exports products trademarked CleanAIR® into more than 30 countries from all over the world, or as OEM solutions for our most significant partners. Our long-term experience in the branch of respiratory protection in industrial environments was fully used in the development of a completely unique powered air purifying respirator system conception – CA Military – designed to protect members of NATO anti-chemical troops.

### CleanAIR<sup>®</sup> – powered air purifying respirators

CleanAIR® is a system of personal respiratory protection based on the principle of overpressure of filtered air in the breathing zone. The respirator is placed on the wearer's belt and filtrates the air which is taken in from the surrounding environment and then delivers it through a breathing tube into a protective mask or hood. The overpressure prevents the contaminants 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.

#### The importance of respiratory protection

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

MALINA – Safety s.r.o. is an important producer of overpressure respiratory protection systems, which represent the most effective and comfortable method of user protection





# Welding Manufacturing & Construction

### AerG0®

(Clean AIR<sup>®</sup>)

(Clean AIR°)

CleanAIR<sup>®</sup> AerGO<sup>®</sup> – universal powered air purifying respirator designed for personal respiratory protection in dusty industrial environments including areas with contaminants in the form of gases and vapours.

The unit is provided with a control system of constant air flow and an advanced electronic system for warning the wearer in the case of a sudden decrease of airflow or low battery charge. The ergonomic design, low weight and slim profile of the unit guarantee a high level of user comfort, even in environments with limited possibilities of movement. The unit is compatible with a wide range of CleanAIR® headtops for various industrial applications.

#### Areas of application

- Dusty industrial environments, including areas with contaminants in the form of gases and vapours
- Automotive industry, shipbuilding industry
- Welding, grinding and surface finishing operations
- Building industry

AerGO®





WELDING

### AerGO®

### (Clean AIR<sup>®</sup>)

(Clean AIR<sup>®</sup>)

#### Features & Benefits

- Ergonomic design and low weight only 980 g
- Slim profile of the unit only 65 mm
- Universal usage filtration of particulate contaminants, gases and vapours
- Operation time > 20 hours with Heavy Duty battery, or up to 10 hours with the standard battery
- Short battery recharging time < 3 h (standard battery)
- Adjustable airflow (160 lpm and 210 lpm)
- Controlling the constant airflow without regard to the state of the filter and the battery capacity
- Audiovisual and vibrating alarm indicating low airflow and low battery charge
- Simple control with only one button
- Ergonomic and comfortable belt which is easy to exchange
- Unique solution of the filter sealing which provides a perfect unit seal after every change of the filter

The new high capacity Li-Ion battery finally available for CleanAIR® AerGO®. The Heavy Duty battery significantly increasing the operation time to more than 20 hours.

No more necessary to change or recharge battery during long shift including combination with gas and vapour filters.

		Product description	Product code
		Complete sets	
		CleanAIR® AerGD® incl. (comfort belt, charger, standard battery, particle filters, flow indicator)	30 00 00PA
		CleanAIR <sup>®</sup> AerGO <sup>®</sup> incl. (comfort belt, charger, heavy duty battery, particle filters, flow indicator)	30 00 00PHA
		CleanAIR <sup>®</sup> AerGO <sup>®</sup> incl. (leather comfort belt, charger, standard battery, particle filters, flow indicator)	30 00 00LA
		CleanAIR* AerGO* incl. (leather comfort belt, charger, standard battery, particle filters, flow indicator)	30 00 00PHA 30 00 00LA 30 00 00LHA vith new connecto 71 00 60 30 00 92 32 00 92 31 00 13 31 00 23 31 00 30 30 00 30 30 00 20
		Complete sets delivered after 01/2018 include Li-lon battery w and new multi plug (EUR, UK, US, AUS) battery charger.	
		Spare parts, accessories	
10.0		Light flexi hose QuickLOCK™ - CA40x1/7"	71 00 60
37		Comfort padded belt CleanAIR® AerGO®	30 00 92
		Leather comfort belt CleanAIR® AerGO®	32 00 92
		Battery Li-Ion Standard 14,4V / 2,6Ah, new conn.	31 00 13
Technical data		Battery Li-Ion Heavy Duty 14,4V / 5,2Ah, new conn.	31 00 23
Air flow	160 lpm and 210 lpm	Battery charger, new multi plug (compatible with 31 00 13/23 batteries)	31 00 30
)peration time*	up to 10 hours with Standard battery more than 20 hours with Heavy Duty battery	Protection set (2× prefilter, 2× arrester, 2× cover)	30 00 30
Veight	980 g (incl. standard battery)	Spark arrester (set of 10 pcs)	30 00 20
loisiness	max. 70 dB		
limensions	235 mm / 126 mm / 65 mm	Filters	
	, ,	Particle filter P R SL (pack of 2 pairs)	30 00 10/2
attery Standard	Li-lon 14,4 V / 2,6 Ah	Prefilter CleanAIR® AerGO® (set of 10 pcs)	30 00 15
attery Heavy Duty	Li-lon 14,4 V / 5,2 Ah	Combined filter AerGO® A1P R SL (set of 2 pcs)	30 03 57
Certification	EN 12941 TH3	Combined filter AerGO® A1B1E1P R SL (set of 2 pcs)	30 03 64





### Basic EVO

(Clean AIR<sup>®</sup>)

(Clean AIR°)

The CleanAIR<sup>®</sup> BASIC has evolved... time-proven construction got a new look and incorporates the newest technology. All this and more at price you can afford. Lightweight, compact, innovated – **NEW Basic EVO** 

The Basic EVO provides efficient protection in environments with hazardous particles in the form of solid and liquid aerosols such as dust, smoke, fumes and fibers. Equipped with Li-lon battery, electronic control of contstant airflow and advanced system for warning the wearer in the case of low airflow. Individually adjustable airflow from 170 lpm up to 240 lpm can be easily controlled by just one button. All the relevant information clearly visible due to newly designed LED control panel.



#### Features & Benefits

- Lightweight and compact
- Li-lon battery
- Adjustable airflow in five levels (170–240 lpm)
- Electronic system of constant airflow
  - Audiovisual alarm
  - Indication of filter clogging and battery charge
- Newly designed LED control panel
- Simple one-button operation
- New and easy click-lock system of attaching the filter cover

#### Areas of application

- Welding, grinding, surface finishing operations
- Dusty industrial environments
- Automotive and shipbuilding industry
- Constructions
- Food processing industry



170–240 lpm	
Up to 10 hours	
4–5 hours	
880 g (including battery)	
max. 70 dB	
191 mm / 173 mm / 104 mm	
Li-Ion 7,2 V / 4,4 Ah	
EN 12941 TH3	

### Basic EVO



Product description	Product code
Complete sets	
CA Basic EVO including comfort belt, multi plug (EUR, UK, US, AUS) battery charger, Li-Ion battery, particle filter and flow indicator	81 00 00PA
Spare parts, accessories	
Light flexi hose QuickLOCK™ - CA40x1/7"	71 00 60
Comfort padded belt Standard	71 00 93
Leather comfort belt	72 00 93
Battery Li-Ion 7,2 V / 4,4 Ah	81 00 17
Battery charger Li-Ion	71 00 30
Particle filter P R SL (set of 2 pcs)	80 00 10/2
Pre-filter (set of 10 pcs)	80 00 15
Odour filter (set of 10 pcs)	80 00 20
CA Basic EVO filter cover	81 00 30

### Pressure

(Clean AIR<sup>®</sup>)

(Clean AIR<sup>®</sup>)

Ideal solution for workplaces with the possibility of connecting to a central compressed air distribution system or a compressor.

Thanks to high airflow it provides a high level of protection even with long-term operations in the heaviest industrial environments. Systems of compressed air are fully compatible with a wide range of CleanAIR® headtops.

#### Pressure Flow Master

System CleanAIR® Pressure Flow Master can regulate the amount of air coming from a central compressed air distribution system or a compressor and keeps it at a constant level without regard to changes of inlet pressure. Apart from the airflow regulation, the system has a warning whistle which can warn the user in the case of an inlet pressure decrease below the bottom limit of operation pressure (cca 350 kPa).

#### Pressure

Basic version CleanAIR® Pressure which can regulate the amount of the supplied air and keeps it on a constant level without regard to changes of inlet pressure.



### Features & Benefits

- Low weight
- Economical operation
- High levels of airflow
- Warning low pressure system (Flow Master)

### Areas of application

- Automotive industry welding, grinding,
- surface finishing operations
- Heavy industrial environments Chemical industry
- Laboratories



duced 2012 by maine Selety

10 +10 +60"

CleanA

FLOW MASTE

#### Pressure Conditioner

The filter station provides additional filtration of compressed air everywhere the quality of the supplied air does not reach the requirements of regulation EN 12021. The high capacity combined filter removes solid particles, oil mist and unpleasant odours which are present in the compressed air distribution system. Conditioner can supply sufficient amount of filtered air for two workers at the same time.



			Product description	Product code
Technical data	Pressure Flow Master	Pressure	Complete sets	
Air flow	160–250 lpm	160–400 lpm	CleanAIR <sup>®</sup> Pressure including accessories (belt and flow indicator)	63 00 00
Inlet pressure	400–1000 kPa	300–1000 kPa	CleanAIR® Flow Master including accessories	67 NN NN
Weight	280 g	250 g	(comfort belt and flow indicator)	0,0000
Noisiness	max. 6	1 dB	CleanAIR® Pressure Conditioner with stand	61 00 50
Inlet connection	compatible with RECTUS	25, 26 and CEJN 320		
Outlet connection	CA40×	1/7"	Spare parts, accessories	
Certification	EN 14594, class 3B	EN 14594, class 2A	Light flexi hose QuickLOCK™ - CA40x1/7"	71 00 60
			Rubber hose QuickLOCK™ – CA40×1/7"	71 00 86
			Belt for CA Pressure	70 00 95
Technical data	Pressure C	onditioner	Comfort padded belt	71 00 93
Weight	6,80	) kg	Leather comfort belt	72 00 93
Dimensions	240/380	/ 220 mm	Noise silencer	63 00 10
Inlet pressure	300–10	00 kPa	Pressure hose standard 10 m	61 00 30
Connection	compatible with RECTU	S 25, 26 and CEJN 320	Pressure hose antistatic 10 m	61 00 31
	1× inlet, 2	× outlets	Pressure hose spiral 6,5×10 mm, lenght 10 m	61 00 46

			Product description	Product code
Technical data	Pressure Flow Master	Pressure	Complete sets	
Air flow	160–250 lpm	160–400 lpm	CleanAIR <sup>®</sup> Pressure including accessories (belt and flow indicator)	63 00 00
Inlet pressure	400–1000 kPa	300–1000 kPa	CleanAIR® Flow Master including accessories	67 00 00
Weight	280 g	250 g	(comfort belt and flow indicator)	0,0000
Noisiness	max. 6	1 dB	CleanAIR® Pressure Conditioner with stand	61 00 50
Inlet connection	compatible with RECTUS	25, 26 and CEJN 320		•
Outlet connection	CA40×	1/7"	Spare parts, accessories	
Certification	EN 14594, class 3B	EN 14594, class 2A	Light flexi hose QuickLOCK™ - CA40x1/7"	71 00 60
			Rubber hose QuickLOCK™ – CA40×1/7"	71 00 86
			Belt for CA Pressure	70 00 95
Technical data	Pressure C	onditioner	Comfort padded belt	71 00 93
Weight	6,80	) kg	Leather comfort belt	72 00 93
Dimensions	240/380	/ 220 mm	Noise silencer	63 00 10
Inlet pressure	300–10	00 kPa	Pressure hose standard 10 m	61 00 30
Connection	compatible with RECTU	5 25, 26 and CEJN 320	Pressure hose antistatic 10 m	61 00 31
	1× inlet, 2	× outlets	Pressure hose spiral 6,5×10 mm, lenght 10 m	61 00 46

WELDING

### Pressure

# Welding hood ARES II

(Clean AIR<sup>®</sup>)

CleanAIR



### CleanAIR® ARES II is heavy-duty leather welding hood incorporating easilly removable safety helmet compatible with airline system CleanAIR® Pressure ARES.

Ensures uncompromising respiratory and upper body protection, where the welders safety is the highest priority. Perfect for application in tight spaces – thanks to compact design and removable safety helmet allows you to squeeze into spaces where access with conventional helmet is not possible.

### Features & Benefits

- Multiple protection head, eye, face, respiratory and hearing
- Innovative air distribution ensuring high comfort • Available with two different sizes of welding filter
- opening 110×90 mm and 110×60 mm • Compatible with ADF's or passive filters
- Stable flip-up welding frame
- "B" rated impact resistance
- Resistance against radiant heat and welding spatter – class 2 according to EN ISO 11611

110×60 mm version





Technical data		
Weight	1580 g	
Material	hood – high quality leather welding frame – polyamide	
Welding filter opening	110×60 / 110×90 mm	
Inlet connection	compatible with MINI DN 5 (CEJN 223)	
Certification	EN 14594, class 3B, EN ISO 11611 – class 2	

- Features & Benefits • Individualy adjustable airflow 160–270 lpm
- Compact and low weight
- Wide range of airflow levels
- Low pressure warning signal

### Welding hood ARES II





Product description		Product code
Complete sets		
CleanAIR® Pressure Ares - unit with belt indicator	and flow	66 00 00
CleanAIR® Pressure Ares - unit only		66 00 00W
CleanAIR® ARES II leather welding hood, removable hard hat	visor 110x60,	71 83 60
CleanAIR® ARES II leather welding hood, removable hard hat	visor 110x90,	71 83 60
Technical data		
Air flow – adjustable	160–270 lpm	

Air flow – adjustable	160–270 lpm	
Inlet pressure	400–1000 kPa	
Weight	250 g	
Inlet connection	compatible with RECTUS 25, 26 and CEJN 32	
Outlet connection compatible with MINI DN 5 (CEJN 22		
Certification	EN 14594, class 3B	

### Balder BH3 Grand

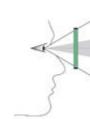
### (Clean AIR<sup>®</sup>)

### (Clean\_AIR°)

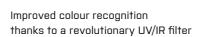
Magnifying lens holder for Balder BH3/CA-20 welding hoods.

secure fit of the magnifying lens.

Easy to attach to the helmet, provide



selected shade ±10°





### HOOD

Technical data	Grand GDS	Grand DS
Weight	565 g	535 g
Certification	EN	175

AUTO-DARKENING FILTERS

Technical data	Grand GDS	Grand DS
Certification	EN 379	EN 379
Optical classes	1/1/1/1	1/1/1/1
Viewing area	97×68 mm	97×68 mm
Filter opening	110×110 mm	110×110 mm
Weight	165 g	125 g
Open state shade	4	4
Closed state shade	6-8 / 9-13	9–13
Shade adjustment	external	internal
Sensitivity adjustment	external	internal
Delay adjustmentexternal	external	internal
Grinding mode	external	no
Switching time at +23 °C	0,15 ms	0,15 ms
Clearing time	0,2–0,8 s	0,2–0,8 s
UV/IR protection	UV 16/IR 16	UV 16/IR 16
Temperature range	–10 °C / +60 °C	
TIG detection	enhanced	
Energy supply	solar cells – no	battery change

### This new generation of welding hoods Balder BH3 Grand

incorporate the revolutionary ADC Plus technology of Angular Dependence Compensation making it suitable for all welding methods including TIG, even with very low welding currents. The proof of the high quality of the Balder welding hoods is in its extended guarantee (five years) and DIN Plus certificate with the best possible results of optical quality 1/1/1/1.

### Features & Benefits

- Enlarged viewing area 97×68 mm
- ADC plus technology = the best optical quality 1/1/1/1
- Improved colour recognition thanks to a revolutionary UV/IR filter
- Continuously adjustable shade 6–8 / 9–13
- Wide range of adjustable sensor sensitivity
- Function of individual delay adjustment
- Also certified for grinding operations
- Easily exchangeable spare parts
- Five years guarantee

### Areas of application

• Professional welding hood suitable for all welding methods including TIG, even with very low welding currents

### **5 YEARS WARRANTY**





- External control
- Continuously adjustable shade 6–8 / 9–13
- Wide range of adjustable
- sensor sensitivity • Individual delay adjustment
- Grinding mode



#### BALDER GRAND DS 9-13 Internal control

- Continuously adjustable shade 9–13
- Wide range of adjustable sensor sensitivity
- Individual delay adjustment

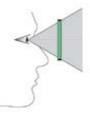
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WELDING

# Balder BH3 Grand

### ADC plus technology = the best optical quality 1/1/1/1





STANDARD ANGULAR DEPENDENCE

**IMPROVED** ANGULAR DEPENDENCE selected shade ±30°



Easily exchangeable spare parts



Product description	Product code
Complete hoods	
Welding hood Balder BH3 Grand GDS. External shade adjustment 6–8 / 9–13, external sensitivity and delay adjustment, grinding mode	40 20 80
Welding hood Balder BH3 Grand DS. Internal shade adjustment 9–13, internal sensitivity and delay adjustment	40 20 70
Spare parts, accessories	
Shell of the welding hood BH3 (GDS external control) with headband without ADF	70 20 97
Shell of the welding hood BH3 (DS external control) with headband without ADF	70 20 98
Headband for CA-20	70 20 41
Front frame BH3	70 20 31
Protection plate external	70 20 71
Protection plate internal 107,5×71,5 mm	70 20 72
Magnifying lens holder for BH3	70 20 78
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
Sweatband CleanAIR <sup>®</sup> (pack of 10 pcs)	16 70 01/10
Autodarkening filter BH3 Grand V9-13DS	40 50 70
Autodarkening filter BH3 Grand V6-8/9-13GDS	40 50 80

### Welding hood CA-20

(Clean AIR<sup>®</sup>)

(Clean\_AIR°)

### The new generation of welding hoods

Offers an innovative solution for integrated air distribution allowing the possibility to adjust the airflow direction and at the same time provide the maximal level of welder protection, even in the heaviest industrial environments. The CA-20 welding hoods are equipped with auto-darkening filters (Balder Grand) which use the revolutionary technology of Angular Dependence Compensation ADC Plus. CA-20 represents a combination of high level optical quality 1/1/1/1 and the highest class of respiratory protection TH3.

### **BEST OPTICAL QUALITY 1/1/1/1. RESPIRATORY PROTECTION TH3**



Product description	Product code
Complete hoods	
Protective hood for welders CA-20 with integrated air distribution, including ADF Balder Grand V9-13 DS	70 20 70*
Protective hood for welders CA-20 with integrated air distribution, including ADF Balder Grand V6-8/9-13 GDS	70 20 81*
Spare parts, accessories	
Protective hood CA-20 (DS internal control) with integrated air distribution, without ADF	70 20 OOF
Protective hood CA-20 (GDS external control) with integrated air distribution, without ADF	70 20 01F
Face seal CA-20 – Standard	70 20 60*
Light flexi hose QuickLOCK™ - CA40x1/7"	71 00 60
Hose holder	70 20 32
Front frame CA-20	70 20 31
Protection plate external	70 20 71
Protection plate internal 107,5×71,5 mm	70 20 72
Headband	70 25 41
Set of sweatbands	70 25 42
Autodarkening filter BH3 Grand V9-13DS	40 50 70
Autodarkening filter BH3 Grand V6-8/9-13GDS	40 50 80

\* If "Flexi" face seal required, please, add "F" to the end of the product code

WELDING

#### Areas of application

• Professional welding hood suitable for all welding methods including TIG, even with very low welding currents

### Features & Benefits

- Enlarged viewing area 97×68 mm
- ADC plus technology = the best optical quality 1/1/1/1
- Improved colour recognition thanks to a revolutionary UV/IR filter
- Also certified for grinding operations

### Features & Benefits

CleanAIR®

- Attractive design, low weight
- Integrated air distribution system
- Adjustable airflow direction
- · Easily and quickly exchangeable face seal

# Welding hood CA-20

### Main advantages of CA-20 welding hood

Integrated air distribution system with adjustable airflow direction



Easily and quickly exchangeable face seal



Face seal available in two variants – Flexi or Standard





Hose holder for optimum adjustment of the hose position



500
EN 12941 TH3, EN 14594 3B

### SmarTlGer

(Clean AIR<sup>®</sup>)



### The Balder SmarTIGer welding hood represents a reasonable ratio of high quality Balder trademark and affordable price.

The SmarTIGer concept uses a professionally tested hood BH3 in combination with high quality auto-darkening filters (Balder SQ 9–13). The hood is ideal for occasional welders, maintenance workers, carriage builders and building assemblers who look for an affordable solution while keeping to required quality.

### Features & Benefits

- Low weight, high comfort
- High level optical quality 1/1/1/3
- Continuously adjustable shade 9–13
- Wide range of adjustable sensor sensitivity
- Viewing area 96×46,5 mm
- Solar cell power supply
- Easily exchangeable spare parts
- A number of various graphic variants to choose from
- Extended three year guarantee

### Areas of application

- Suitable for most welding methods including TIG
- Ideal for occasional welders, maintenance workers, carriage builders and building assemblers

### **Optional graphic variants**







40 23 63 - Tiger







40 23 64 - Thunder



Carlot

- Simple operation
- Adjustable airflow 160 and 210 lpm
- Exchangeable NiMH battery
- Suitable for most welding applications

### Areas of application

- Suitable for most welding methods including TIG
- Ideal for occasional welders, maintenance workers, carriage builders and building assemblers

Technical data		
Protection factor (NPF)	10	
Certification	EN 12941 TH1	

Product description	Product cod
Complete hoods	
Welding hood Balder SmarTlGer. Internal shade adjustment 9–13, internal sensitivity adjustment	40 23 60
Spare parts, accessories	
Welding hood SmarTlGer with headband without ADF	70 23 97

Welding hood SmarTIGer with headband without ADF	70 23 97
Headband	70 25 41
Front frame SmarTlGer	70 23 31
Protection plate external	70 20 71
Protection plate internal 107,5×51 mm	*107,5/51
Set of sweatbands	70 25 42
Autodarkening filter SmarTIGer SQ 9–13	40 50 60

WELDING

# Welding hood CA-23

### Affordable version of an auto-darkening welding hood and a PAPR system for welding operations.

A welding hood with a standard airflow distribution system and a face seal equipped with a CA Basic Dual Flow respiratory unit providing sufficient protection of the wearer in environments with contaminants in the form of particles such as dust, smoke and toxic and non-toxic fumes. The CA Basic unit has low weight. simple operation and two airflow level options ECO / TURBO. CleanAIR **Product description** Product code Complete hoods Protective hood for welders CA-23 with air 70 23 60 distribution, including ADF Balder SQ 9-13

Spare parts, accessories	
Assembly kit for welding hood includes face seal, air duct, sweatbands 2 pcs	44 00 85CA
Face seal for welding hood – universal	70 21 53
Light flexi hose QuickLOCK™ - CA4Ox1/7"	71 00 60
Front frame CA-23	70 23 31
Protection plate external	70 20 71
Protection plate internal 107,5×51 mm	*107,5/51
Headband	70 25 41
Set of sweatbands	70 25 42
Autodarkening filter SmarTIGer V9-13SQ	40 50 60

## Welding hood CA-27

(Clean AIR<sup>®</sup>)

A new welding hood with build-in air distribution system and high-quality auto-darkening filter AerTEC<sup>®</sup> X100. In combination with powered air purifying respirators or airline systems CleanAIR® provides an advanced level of protection from hazardous contaminants in very demanding welding environments.

The AerTEC® YOGA represents a high-quality welding hood for the price you can afford. The new YOGA concept uses a lightweight though durable welding shield in combination with high-quality auto-darkening filter AerTEC® X100. This solution is suitable for most of the welding methods including TIG, even with very low welding currents.

CleanAIR



- Advantageous price/performance ratio
- 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

CleanAIR®

• Compatible with wide range of CleanAIR® respirators

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# Welding hood CA-27



Technical data	
Optical quality	1/1/1/2
Filter dimension	110×90 mm
Viewing area	100×53 mm
Arc sensors	4
Shade state	DIN4/9–13
Shade control	internal
Grinding mode	YES, DIN4
Sensitivity control	YES
TIG detection	Enhanced
Energy supply	solar cell + CR2O32 battery
Certification	EN379 (ADF), EN175 B (hood)

Product description	Product code
O-mulate banda	
Complete hoods	
Welding hood CA-27, including air distribution and ADF AerTEC* X100 4/9–13	70 27 01
Welding hood AerTEC° YOGA - Internal control of shade 9–13, sensitivity, delay and grinding mode	40 27 01
	-
Spare parts, accessories	
Welding hood CA-27 YOGA - incl. air distribution, w/o ADF	70 27 97
Welding hood AerTEC° YOGA - w/o air distribution, w/o ADF	40 27 97
Headband AerTEC° YOGA	70 27 41
Assembly kit for a welding hood incl. face seal and air duct	44 00 85CA
Face seal for welding hood – universal	70 21 53
Auto-darkening filter AerTEC® X100 4/9–13	40 51 00
Protection plate – external	70 27 71
Protection plate – internal	70 27 72
Light flexi hose QuickLOCK™ - CA40x1/7"	71 00 60
	•

### CA-28 Euromaski

(Clean AIR<sup>®</sup>)

(Clean AIR<sup>®</sup>)

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.

It represents an ergonomic and lightweight solution for most of welding processes. Thanks to stable flip-up welding visor provides excelent protection for welding and subsequent cleaning and grinding operations. A wide curved protective visor ensures undisturbed view in all directions and meets medium impact requirements "B" as defined in EN 166.







#### Features & Benefits

- Compact and durable design
- Lightweight, comfortable
- Combines welding and grinding protection
- Large curved visor for undisturbed view
- Easily exchangable spare parts
- Comfortable and easily adjustable headband
- Wide range of different shade visors (transparent, 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-28 Euromaski

Technical data	
Weight	560 g
Material	helmet shell – TPE
	visor – polycarbonate
Hose connection	CA40×1/7"
Protection factor (NPF)	50
Certification	EN 12941 TH2, EN 14594 2A,
	EN 175 B, EN 166 B

Product description	Product code
Complete hoods	
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
Spare parts, accessories	
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
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
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
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
Assembly kit for headband CA-28 Euromaski	4028 – 215
Headband CA-28 Euromaski	4028 – 2171

### CA-29 Evolve

### (Clean AIR<sup>®</sup>)

### (Clean AIR<sup>®</sup>)



### Represents ergonomic and lightweight flip-up combination of auto-darkening welding helmet and transparent protective visor.

Thanks to stable flip-up welding visor provides excelent protection for 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 autodarkening filter or passive welding filter with standard dimension 110×90 mm and thus provides protection of face and eyes against harmful ultraviolet/ infrared radiation and welding spatters. 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 harmfull airborne contaminants.

#### Features & Benefits

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

### Areas of application

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

Technical data	
Weight	580 g (helmet w/o air distribution, w/o ADF)
Material	helmet shell – TPE visor – Polycarbonate
Hose connection	CA40×1/7"
Protection factor (NPF)	50
Certification	EN 12941 TH2, EN 14594 2A, EN 175 B, EN 166 B

### CA-29 Evolve



Product description	Product code
Complete hoods	
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
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
Spare parts, accessories	
Assembly kit for a welding hood (incl. face seal, air duct, sweatband 2 pcs)	44 00 85CA
Face seal for welding hood – universal	70 21 53
Light flexi hose QuickLOCK™ - CA40x1/7"	71 00 60
Headband for CA-29, incl. set of sweatbands	70 29 41
Assembly kit for headband	70 29 42
Flip-up kit, complete assembly	70 29 45
Grinding visor, polycarbonate	70 29 20
Protection plate external, 110×90 mm, 1,0 mm	*110/90-1,0
Protection plate internal, 108×51 mm, 0,75 mm	*108/51
Autodarkening filter V9-13 DS ADC	40 50 40
Welding filter passive 110×90 mm, shade No. 8	110/90-08
Welding filter passive 110×90 mm, shade No. 9	110/90-09
Welding filter passive 110×90 mm, shade No. 10	110/90-10
Welding filter passive 110×90 mm, shade No. 11	110/90-11
Welding filter passive 110×90 mm, shade No. 12	110/90-12
Welding filter passive 110×90 mm, shade No. 13	110/90-13

### Safety helmet CA-40GW

(Clean AIR<sup>®</sup>)

### Safety helmet CA-40GW with grinding and welding shield.

A combination of a grinding and a welding shield with safety helmet and an integrated air distribution system. Ensures protection of the head, respiratory tract, eyes, face and hearing in highly demanding environments.



#### Features & Benefits

- Eyes, face, ears, head and respiratory protection
- Well-balanced, comfortable
- High mechanical durability
- Flip-up welding shield
- Compatible with ADF's or passive filters 110×90 mm
- Wide curved polycarbonate visor

#### Areas of application

- Most demanding industrial environments wherever it is necessary to perform preparatory work (clamping, positioning, transport) or where welding is immediately followed by further surface adjustments (grinding, cleaning, etc.)
- Automotive industry, shipbuilding, building construction

#### Technical data

1255 g (CA-40GW) / 1100 g (CA-40)
300 mm / 240 mm / 320 mm
110×90 mm
95×46,5 mm
polycarbonate, 280×150 mm
metallic blue
50
EN 12941 TH2, EN 14594 2B,
EN 397, EN 175 S, B, EN 166 A*

\* CA-40GW



Product description	Product code
Spare parts and accessories	
Spare welding shield CA-40GW (only for CA-40GW)	70 42 02
Spare grinding shield CA-40G	70 41 02
Protection film for grinding visor (pack of 10 pcs)	70 41 20
Face seal	70 40 60
Headband	70 40 41x
Neck and throat protection	70 40 65
Fixing screws	70 40 43
Sweatband	70 40 44
Earmuffs, No. 8	70 40 40
Earmuffs, No. 10	70 40 41
Earmuffs, No. 12	70 40 42
Outer protection plate polycarbonate	70 40 80
Inner protection plate, 107×51 mm	*107/51
Passive welding filter, shade 9	110/90-09
Passive welding filter, shade 10	110/90-10
Passive welding filter, shade 11	110/90-11
Passive welding filter, shade 12	110/90-12
Passive welding filter, shade 13	110/90-13
Auto-darkening filter V9-13 ADC	40 50 25

WELDING

## Safety helmet CA-40GW

Product description Pr	oduct code
Complete helmets	
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

WELDING

### Safety helmet CA-40

(Clean AIR<sup>®</sup>)

(Clean AIR°)



### Safety helmet CA-40G with grinding shield.

A combination of a grinding shield and safety helmet with an integrated air distribution system. Ensures protection of the head, respiratory tract, eyes, face and hearing while grinding in highly demanding environments.

### Features & Benefits

- Face, head, ears and respiratory tract protection
- Well-balanced, comfortable
- High mechanical durability
- Wide curved polycarbonate visor

### Areas of application

- Highly demanding environments, grinding and other kinds of surface finnishing operations
- · Automotive industry, shipbuilding, building construction

Technical data	
Weight	1100 g
Dimensions	300 mm / 240 mm / 320 mm
Grinding visor	polycarbonate, 280×150 mm
Colour	metalic blue
Protection factor (NPF)	50
Certification	EN 12941 TH2, EN 14594 2B,
	EN 397, EN 166 A

#### Areas of application

- Suitable for most welding methods
- in demanding industrial environments
- Automotive industry, shipbuilding, building construction

Product description	Product code
Complete helmets	
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

Product description	Product code
Spare parts and accessories	
Spare welding shield (only for CA-40)	70 40 02
Face seal	70 40 60
Headband	70 40 41x
Neck and throat protection	70 40 65
Fixing screws	70 40 43
Sweatband	70 40 44
Earmuffs, No. 8	70 40 40
Earmuffs, No. 10	70 40 41
Earmuffs, No. 12	70 40 42
Outer protection plate polycarbonate	70 40 80
Inner protection plate, 107×51 mm	*107/51
Auto-darkening filter V9-13 ADC	40 50 25

WELDING

# Safety helmet CA-40G



Product description	Product code
Complete helmets	
Safety helmet CA-40G with grinding shield	70 41 00
Spare parts and accessories	
Spare grinding shield CA-40G	70 41 02
Face seal CA-40	70 40 60
Headband CA-40	70 40 41x
Neck and throat protection CA-40	70 40 65
Fixing screws 2 pcs	70 40 43
Sweatband	70 40 44
Earmuffs, No. 8	70 40 40
Earmuffs, No. 10	70 40 41
Earmuffs, No. 12	70 40 42
Protection film for grinding visor (pack of 10 pcs)	70 41 20

### Safety helmet CA-4

(Clean AIR<sup>®</sup>)

(Clean AIR<sup>®</sup>)

The CA-4 safety helmet combines respiratory protection with protection of the head, face and ears.

> The wide panoramic visor with an anti-fog coating enables good orientation. An additional flip-up polycarbonate visor can be supplied with the helmet.

The flip-up polycarbonate visor guarantee high impact resistance. According to EN 166 it provides protection against impacts of particles with medium energy.

### Areas of application

- Dusty environments without the necessity to protect neck and shoulders
- Heavy industrial environments grinding, surface finishing operations
- Building industry

Weight	850 g
Dimensions	290 mm / 230 mm / 300 mm
Material	safety cap – polyethylene
	head harness – textile
	visor – cellulose propionate
	hood – polyester with PVC coating
	flip-up visor – polycarbonate
Protection factor (NPF)	50
Certification	EN 12941 TH2, EN 14594 3A,
	EN 166, EN 397
Hose connection	CA40×1/7"

Product description	Product code
Complete hoods	
Safety helmet CA-4 – orange face seal	71 04 01*
Safety helmet CA-4 including additional protective flip-up visor and earmuffs – orange face seal	71 04 03*
Spare parts, accessories	
	70.04.00/40

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

\* If blue face seal required, please, add "B" to the end of the product code

A light protective shield with an easily replaceable high quality visor provides excelent respiratory and face protection in grinding operations.

A fully adjustable ratchet headgear provides comfortable and secure fit. Polycarbonate panoramic visor unsures clear and broad field of vision. According to EN 166 it provides protection against impacts of particles with medium energy.

#### Areas of application

- Dusty environments without the necessity to protect neck and shoulders
- Environments with low chemical resistance requirements
- Heavy industrial environments grinding, surface finishing operations
- Building industry

Weight	520 g
Dimensions	300 mm / 350 mm / 220 mm
Material	shield body – polyamide headband – polyamide visor – polycarbonate
Protection factor (NPF)	50
Certification	EN 12941 TH2, EN 14594 2A
Hose connection	CA40×1/7"

# Grinding shield CA-3



Product description	Product code
Complete hoods	
Grinding shield CA-3 (polycarbonate)	71 03 00
Spare parts, accessories	
	74.00.00
Spare grinding visor polycarbonate	71 03 30
Face seal	70 21 53
Protection film (pack of 10 pcs)	71 03 20
Sweatband CleanAIR® (pack of 10 pcs)	16 70 01/10

WELDING



### Chemical 3F

[CleanAIR°]

(Clean AIR<sup>®</sup>)



CHEMICA

### Chemical 3F

### New generation of powered air purifying respirator designed to filtrate contaminants in the form of gases, vapours, particles and their combinations.

High level of performance, mechanical and chemical resistance, UV resistance and Ingress protection IP64 guarantee sufficient protection of the wearer even in heavy industrial environments, the chemical industry, laboratories and the pharmaceutical industry. Full colour display clearly shows all the relevant information needed.



Product description	Product code
Complete sets	
CleanAIR® Chemical 3F including accessories (comfort belt, charger, battery, flow indicator)	52 00 00FCA
CleanAIR® Chemical 3F including accessories (decontaminable belt, charger, battery, flow indicator)	52 00 00FDA
For ordering set with UK charger, please, add "U" to the er	nd of the product code
Spare parts, accessories	
Light flexi hose QuickLOCK™ - CA40x1/7"	71 00 60
Rubber hose QuickLOCK™ – CA40×1/7"	71 00 86
Comfort padded belt 3F	52 00 43.1
Comfort padded harness	52 00 44.1
Decontaminable belt	51 00 41
Decontaminable harness	51 00 42
Battery Li-Ion 14,4 V / 2,6 Ah	52 00 10
Battery charger	51 00 30EUR
Battery charger UK plug	51 00 30UK
Filters	
Particle filter P3	50 00 48
Combined filter A2P3	50 01 57
Combined filter A2B2P3	50 01 67
Combined filter A2B2E2K2P3	50 01 68
Combined filter A2B2E2K2HgP3	50 01 66

Our comprehensive range of filters you can find on pages 64–65

### Chemical 2F

### | Clean AIR<sup>®</sup> |

(Clean AIR<sup>®</sup>)

New generation of powered air purifying respirator designed to filtrate contaminants in the form of gases, vapours, particles and their combinations.

Despite its compact size and low weight, the Chemical 2F unit has high mechanical and chemical resistance, and UV resistance. The construction of the unit allows easy decontamination in a shower thanks to Ingress protection IP64. The unique automatic closing system prevents unwanted contamination of the unit by particles while the filters are being changed. Full colour display clearly shows all the relevant information needed.

leanAIR



The new high capacity Li-Ion battery finally available as a smart option for Chemical 2F°. The Heavy Duty battery significantly increasing the operation time up to 16 hours.

No more necessary to change or recharge battery during long shift including combination with gas and vapour filters.



Technical data	
Air flow	120–235 lpm
Operation time	up to 10 hours with Standard battery up to 16 hours with Heavy Duty battery
Weight	960 g (including standard battery)
Noisiness	max. 62 dB
Dimensions	240 mm / 110 mm / 120 mm
Battery Standard	Li-Ion 14,4 V / 2,6 Ah
Battery Heavy Duty	Li-Ion 14,4 V / 5,2 Ah
Certification	EN 12941 TH3, EN 12942 TM3

### Features & Benefits

- Compact design and low weight
- High mechanical and chemical resistance
- Resistance to intrusion of liquids and solid particles IP64

89 00 02: On FA

E.C.C. COTAIR Particle

- Can be decontaminated by a shower
- Unique automatic closing system
- Advanced electronic system for warning the wearer
- Full colour TFT display clearly shows all the relevant information needed
- Individual working modes HOOD / MASK
- Airflow 120–235 lpm
- Li-lon battery and quick battery charger (charging time < 3 h)

#### Areas of application

- Chemical industry
- Laboratories
- Pharmaceutical industry
- Remediation operations



RP 00 05 : ou

### Chemical 2F



Product description	Product code
Complete sets	
CleanAIR® Chemical 2F including accessories (comfort belt, charger, battery, flow indicator)	51 00 00FCA
CleanAIR® Chemical 2F including accessories (decontaminable belt, charger, battery, flow indicator)	51 00 00FDA
For ordering set with UK charger, please, add "U" to the en	d of the product code

Spare parts, accessories	
Light flexi hose QuickLOCK™ - CA40x1/7"	71 00 60
Rubber hose QuickLOCK™ – CA40×1/7"	71 00 86
Comfort padded belt 2F	71 00 92
Decontaminable belt	51 00 41
Decontaminable harness	51 00 42
Comfort padded harness	52 00 44.1
Battery Li-Ion Standard 14,4 V / 2,6 Ah	51 00 10
Battery Li-Ion Heavy Duty 14,4 V / 5,2 Ah	51 00 20
Battery charger	51 00 30EUR
Battery charger UK plug	51 OO 3OUK
Filters	
Particle filter P3	50 00 48
Combined filter A1P3	50 03 57
Combined filter A1B1E1P3	50 03 64
	••••••

Our comprehensive range of filters you can find on pages 64–65

### Chemical 2F –

### CleanAIR

# **[**1]

Ventilated suits with filtered air (powered by CleanAIR<sup>®</sup> Chemical 2F) and MICROGARD<sup>®</sup>/MICROCHEM<sup>®</sup> technology providing respiratory, face and body protection from hazardous substances.

MICROGARD<sup>®</sup>/MICROCHEM<sup>®</sup> PAPR is a range of suits designed for use with Powered Air Purifying Respirators and certified to provide both respiratory and body protection from hazardous substances.

CleanAIR® Chemical 2F - the advanced solution in gases, vapour and particulate filtration. The construction of the system allows easy decontamination thanks to Ingress protection IP64, full colour TFT display clearly shows all the relevant information. Advanced electronic system for warning the wearer in case of low airflow or low battery charge. Despite its compact design and low weight, the Chemical 2F ensures constant air flow in ranges from 120 up to 235 lpm with either combined or particulate filters. The unique automatic closing system prevents unwanted contamination while the filters are being changed.

### The new high capacity Li-Ion battery finally available!

No more necessary to change or recharge battery during long shift including combination with gas and vapour filters.

### FABRIC TECHNOLOGY

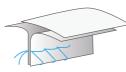


### MICROGARD<sup>®</sup> 2500 PLUS PAPR

a unique material offering exceptional mechanical strength, liquid and particulate protection. MICROGARD® 2500 achieves the highest classifications for protection from biological agents, in accordance with EN 14126: 2003 and ASTM F1671.

#### Stiched & Taped Seams

Increased strenght and an effective liquid & particle barrier



### MICROCHEM® 3000 PAPR

one of the lightest and most comfortable chemical protective fabrics on the market today. This durable multi-layer fabric provides an extremely effective barrier against both inorganic chemicals and biological hazards.

#### Ultrasonically Welded & Taped Seams

Provides a high barrier to liquid and particluates





an exceptional barrier against many concentrated organic, inorganic chemicals and biological agents. Tested against over 190 chemicals, including chemical warfare agents, this multi-layer fabric is renowned for being lightweight yet durable and comfortable.

### Ultrasonically Welded & Taped Seams

Provides a high barrier to liquid and particluates

#### Features & Benefits

- Panoramic Visor Design [1] Ensures a good field of vision for the wearer.
- Air permeable SMS collar [2] maintains sufficient air in the breathing zone whilst allowing excess air to flow into the body of the suit.
- Emergency Rip Cord [3] permits rapid doffing of the suit, particularly in cases of emergency or undue distress to the wearer.
- Exhalation Valves [4] with two mounted in the hood and two in the back to allow CO, to escape and equalise pressure in the suit; ensuring a full range of movement without the risk of excessive air pressure causing harm to the wearer or the protective suit.
- Inbuilt transparent window [5] allows immediate access to all relevant information displayed on the unit.





[4]

Low pressure

industrial cleaning

Nuclear industry

#### Areas of application

- Viral contaminated areas
- Biological protection Industrial paint spraying
- Emergency medical response
- Medical research
- Chemical and pharmaceutical
- industries

Please note that MICROGARD<sup>®</sup> / MICROCHEM<sup>®</sup> suits are sold separately. For advice please contact Ansell Microgard Limited or your authorized Ansell Microgard Limited distributor.

Technical data (Chemical 2F)			
Air flow	120–235 lpm, adju		
	(depends on the type o	f the filter)	
	particle filters	120–235 lpm	
	combined light (class 1)	120–210 lpm	
	combined heavy (class 2)	120–140 lpm	
Operation time	up to 10 hours with Stan	dard battery	
	up to 16 hours with Heavy	Duty battery	
Weight	960 g (including ba	960 g (including battery)	
Noisiness	max. 62 dB		
Dimensions	240 mm / 110 mm / 1	20 mm	
Battery	Li-lon 14,4 V / 2,6	3 Ah	
Certification	EN 12941 TH3 with an Asigr Factor (APF) of 4		
	Factor (APF) of 4	40*	

\* UK APF according to Annex C of EN 529:2005. The APF means the factor by which the hazard is reduced, i.e. how many times cleaner the air is inside the hood than outside



# Ventilated Protective Clothing



Product description	Product code
Complete sets	
CleanAIR <sup>®</sup> Chemical 2F with activated "Garment" profile, including accessories (battery, charger, comfort belt, air hose, locking nut and flow indicator)	MIC51 00 00FC
CleanAIR <sup>®</sup> Chemical 2F with activated "Garment" profile, including accessories (battery, charger, comfort harness, air hose, locking nut and flow indicator)	MIC51 00 00FCH
CleanAIR <sup>®</sup> Chemical 2F with activated "Garment" profile, including accessories (battery, charger, decontaminable belt, air hose, locking nut and flow indicator)	MIC51 00 00FD
CleanAIR <sup>®</sup> Chemical 2F with activated "Garment" profile, including accessories (battery, charger, decontaminable harness, air hose, locking nut and flow indicator)	MIC51 00 00FDH
Spare parts, accessories	
Light flexi hose QuickLOCK™ - CA40x1/7"	71 00 60
Comfort padded belt 2F	71 00 92
Comfort padded harness	52 00 44.1
Decontaminable Hypalon belt	51 00 41
Decontaminable Hypalon harness	51 00 42
Battery Li-Ion Standard 14,4 V / 2,6 Ah	51 00 10
Battery Li-Ion Heavy Duty 14,4 V / 5,2 Ah	51 00 20
Particle filter P3	50 00 48
Locking nut CA40×1/7"	70 00 71
Our comprehensive range of filters you can find an pages l	

Our comprehensive range of filters you can find on pages 64–65

### Pressure

(Clean AIR<sup>®</sup>)

(Clean AIR<sup>®</sup>)

Ideal solution for workplaces with the possibility of connecting to a central compressed air distribution system or a compressor.

Thanks to high airflow it provides a high level of protection even with long-term operations in the heaviest industrial environments. Systems of compressed air are fully compatible with a wide range of CleanAIR® headtops.

#### **Pressure Flow Master**

System CleanAIR® Pressure Flow Master can regulate the amount of air coming from a central compressed air distribution system or a compressor and keeps it at a constant level without regard to changes of inlet pressure. Apart from the airflow regulation system it has a warning whistle which can warn the user in the case of an inlet pressure decrease below the bottom limit of operation pressure (cca 350 kPa).

#### Pressure

Basic version CleanAIR® Pressure which can regulate the amount of the supplied air and keeps it on a constant level without regard to changes of inlet pressure.



### Features & Benefits

- Low weight
- Economical operation
- High levels of airflow
- Warning low pressure system (Flow Master)

### Areas of application

- Automotive industry welding, grinding,
- surface finishing operations • Heavy industrial environments
- Chemical industry
- Laboratories



Art No: 67 00 00

594105 2A/3A/38

14 59

101 +6

Malue Safety

CleanA

FLOW MASTI

#### Pressure Conditioner

The filter station provides additional filtration of compressed air everywhere the quality of the supplied air does not reach the requirements of regulation EN 12021. The high capacity combined filter removes solid particles, oil mist and unpleasant odours which are present in the compressed air distribution system. Conditioner can supply sufficient amount of filtered air for two workers at the same time.



			Product description	Product code
Technical data	Pressure Flow Master	Pressure	Complete sets	
Air flow	160–250 lpm	160–400 lpm	CleanAIR* Pressure including accessories (belt and flow indicator)	63 00 00
Inlet pressure	400–1000 kPa	300–1000 kPa	CleanAIR® Flow Master including accessories	67 NN NN
Weight	280 g	250 g	(comfort belt and flow indicator)	0/0000
Noisiness	max. 6	1 dB	CleanAIR® Pressure Conditioner with stand	61 00 50
Inlet connection	compatible with RECTUS 25, 26 and CEJN 320			
Outlet connection	CA40×1/7"		Spare parts, accessories	
Certification	EN 14594, class 3B	EN 14594, class 2A	Light flexi hose QuickLOCK™ – CA40x1/7"	71 00 60
			Rubber hose QuickLOCK™ – CA40×1/7"	71 00 86
			Belt for CA Pressure	70 00 95
Technical data Pressure Conditioner		Comfort padded belt	71 00 93	
Weight	6,80	) kg	Leather comfort belt	72 00 93
Dimensions	240/380	/ 220 mm	Noise silencer	63 00 10
Inlet pressure	300–1000 kPa		Pressure hose standard 10 m	61 00 30
Connection	compatible with RECTU	S 25, 26 and CEJN 320	Pressure hose antistatic 10 m	61 00 31
	1× inlet, 2× outlets		Pressure hose spiral 6,5×10 mm, lenght 10 m	61 00 46

			Product description	Product code
Technical data	Pressure Flow Master	Pressure	Complete sets	
Air flow	160–250 lpm	160–400 lpm	CleanAIR° Pressure including accessories (belt and flow indicator)	63 00 00
Inlet pressure	400–1000 kPa	300–1000 kPa	CleanAIR® Flow Master including accessories	67 00 00
Weight	280 g	250 g	(comfort belt and flow indicator)	0,0000
Noisiness	max. 6	1 dB	CleanAIR® Pressure Conditioner with stand	61 00 50
Inlet connection	compatible with RECTUS 25, 26 and CEJN 320			•
Outlet connection	CA40×1/7"		Spare parts, accessories	
Certification	EN 14594, class 3B	EN 14594, class 2A	Light flexi hose QuickLOCK™ – CA40x1/7"	71 00 60
			Rubber hose QuickLOCK™ – CA40×1/7"	71 00 86
			Belt for CA Pressure	70 00 95
Technical data Pressure Conditioner		Comfort padded belt	71 00 93	
Weight	6,80	) kg	Leather comfort belt	72 00 93
Dimensions	240/380	/ 220 mm	Noise silencer	63 00 10
Inlet pressure	300–1000 kPa		Pressure hose standard 10 m	61 00 30
Connection	compatible with RECTU	S 25, 26 and CEJN 320	Pressure hose antistatic 10 m	61 00 31
	1× inlet, 2× outlets		Pressure hose spiral 6,5×10 mm, lenght 10 m	61 00 46

### Pressure

### Pressure for Mask

(Clean AIR°)

(Clean AIR<sup>®</sup>)

The CleanAIR<sup>®</sup> Pressure for Mask is comfortable and versatile, highly effective constant flow airline system for use with the Shigematsu GXO2 mask. The unique filter back up feature allows the user to keep breathing normally through the passive particle or combined filter in case of sudden failure of air supply.

The system allows the user to adjust the airflow from 170 lpm up to 250 lpm and keeps it at constant level without regard to changes of inlet pressure. Apart from the air flow regulation the system features warning whistle which warns the user in the case of an inlet pressure drop below the bottom limit of operating pressure of 350 kPa. CleanAIR\* Pressure for Mask has especially been designed for long wearing periods or for workplaces where the contaminants are particularly toxic and have poor warning properties. Provides the maximum nominal protection factor of 2000 in accordance with EN 14594:05 (CLASS 4B).

#### Features & Benefits

- Lightweight and comfortable
- High levels of airflow 160–250 lpm
- Nominal protection factor 2000
- Filter back up feature
- Compatible with particle and combined filters

AIR

- Decontaminable by shower
- Low Pressure warning signal

Technical data	
Air flow – adjustable	170–250 lpm
Inlet pressure	400–1000 kPa
Weight	280 g (without air hose and filter)
Inlet connection	compatible with RECTUS 25,26 and CEJN 320
Outlet connection	MINI DIN 5 – compatible with RECTUS 21 serie
Certification	EN 14594, class 4B

### Pressure for Mask



Product description	Product code
Complete sets	
Pressure for Mask incl. P3 filter and comfort belt	65 00 00PC
Pressure for Mask incl. P3 filter and decont. belt	65 00 00PD
Spare parts, accessories	
Pressure for Mask – mask reduction including P3 filter	65 00 10
Pressure for Mask – spare hose including coupling	65 00 30
Comfort padded belt Standard	71 00 93
Decontaminable rubber belt	70 00 97
Pressure hose standard 10 m	61 00 30
Pressure hose antistatic 10 m	61 00 31
Pressure hose spiral	61 00 46
Filter P3 with two threads RD40×1/7"	50 02 48
Filter A2B2E2K2P3 with two threads RD40×1/7"	50 02 68

### Shigematsu GXO2

(Clean AIR<sup>®</sup>)

(Clean AIR°)

### The full face mask Shigematsu GXO2 uses a double seal flange which provides maximal seal while keeping a high level of comfort for the wearer.

The mask has a wide panoramic visor which provides a maximal visual field and a speech diaphragm which facilitates communication. The exchangeable polycarbonate visor has a special surface treatment which guarantees high scratch resistance. The mask body is made from high quality silicone which guarantees high resistance and a long operation life.

The six point head harness ensures secure and easy fit. The mask is fitted with a standard connection thread RD40×1/7 according to EN 148-1 and thus enables we are use a wide range of canister filters and powered air purifying systems cleanAIR\*. The mask is fully approved according to EN 138 and EN 1294.





Visor protection plate for full face masks Shigematsu GX02. Prevents the mask visor from scratching and thus prolongs its life.

# Shigematsu GXO2

### Features & Benefits

- Double seal flange
- Wide panoramic visor
- Anti scratch coating
- The six point head harness
- Standard connection thread RD40×1/7"
- Two exhalation valves for low breathing resistance
- Approved according to EN 136 and EN 12942 TM3

#### Areas of application

- Chemical industry
- Laboratories
- Building industry
- Remediation operations

Weight	610 g
Available sizes	S, M, L
Material	mask body – silicone rubber
	visor – polycarbonate
	head harness – natural rubber
Connection	RD40×1/7"
Protection factor (NPF)	2000
Certification	EN 136 CL3, EN 12942 TM3

Product description	Product code
Complete sets	
Full face mask GXO2, size S	71 06 00S
Full face mask GXO2, size M	71 06 00M
Full face mask GXO2, size L	71 06 OOL
Spare parts, accessories	
Visor protection plate	71 06 20
Head harness	71 06 80
Inner mask including inner valves	71 06 90S/M/L *
Inhalation valve – set (membranes 5 pcs + 1 gasket)	71 06 95
Exhalation valve – set (membranes 5 pcs + 1 gasket)	71 06 96

 $\star$  Please choose the proper size of the inner mask – S, M or L

### Shigematsu CF02

(Clean AIR<sup>®</sup>)

The full face mask Shigematsu CF02 –

The mask has a superior spherical visor which minimizing distance between the eyes and the

visor. This design feature eliminates distortion

vision. Special surface treatment

prevents the visor from scratching. The mask body is made from high quality Styrene TPE which guarantee high resistance and

a long operation life. The six point head harness ensures secure and

easy fit. Non-sticky surface prevents

hair entaglement. The mask is fitted with

a standard connection thread RD40×1/7"

canister filters and powered air purifying systems CleanAIR®. The

to EN 136 and EN 12942.

mask is fully approved according

wearers to use a wide range of

according to EN 148-1 and thus enables

and provides clear and broad field of

the new lightweight mask with

superior spherical visor

(Clean AIR<sup>®</sup>)

Visor protection plate for full face masks Shigematsu CF02. Prevents the mask visor from scratching and thus prolongs its life.

### Features & Benefits

- Lightweight 435 g
- Superior spherical visor
- Anti scratch coating
- The six point head harness
- Standard connection thread RD40×1/7
- Two exhalation valves low breathing resistance
- Approved according to EN 136 CL3 and EN 12942 TM3

### Areas of application

- Chemical industry
- Laboratories
- Building industry
- Remediation operations



Technical data	
Weight	435 g
Available sizes	M, L
Material	mask body – Styrene TPE visor – polycarbonate head harness – Urethane TPE
Connection	RD40×1/7"
Protection factor (NPF)	2000
Certification	EN 136 CL3, EN 12942 TM3

Product description	Product code
	11000010000
Complete sets	
Full face mask CFO2, size M	72 06 00M
Full face mask CFO2, size L	72 06 00L
Spare parts, accessories	
Visor protection film	72 06 20
Head harness	72 06 80
Inhalation valve – set (membranes 5 pcs + 1 gasket)	72 06 95
Exhalation valve – set (membranes 5 pcs + 1 gasket)	72 06 96



# Half mask CA-5

### This universal single filter half mask

with connection thread RD40×1/7" according to EN 148-1 is made from resistant thermoplastic elastomer and has a four point head harness which ensures comfortable and safe fitting. Its 40 mm connection thread can be used with certified canister filters with weights lower than 300 g or CleanAIR® powered air purifying respirators.



• Low weight, high level of comfort • Universal size • Standard connection thread according to EN 148-1

### Areas of application

• Light industrial environments • Building industry Agriculture

Technical data		
Weight	115 g	
Size	one size fits all	
Material	TPE rubber	
Connection	RD40×1/7"	
Protection factor (NPF)	200	
Certification	EN 140, EN 12942 TM2	

Product description	Product code
Complete sets	
Half mask CA-5	70 05 00
Spare parts, accessories	
Head harness	70 05 03
Inhalation valve – set	70 05 07
Exhalation valve – set	70 05 08

### Short hood CA-1

### (Clean AIR<sup>®</sup>)

(Clean AIR°)

### A short protective hood provides protection of the face and breathing paths.

The comfortable and adjustable headband (the head circumference and height are adjustable in three levels) ensures excellent comfort for the wearer. The size of the hood can be adjusted at two points – on the neck and scruff. The wide panoramic visor enables good orientation and has a special anti-fog coating.

#### Areas of application

- Dusty environments without the necessity to protect neck and shoulders Environments
- with low chemical resistance requirements

Available colours

• Orange, blue

Technical data Weight 180 g Dimensions 150 mm / 350 mm / 300 mm Material hood – polyester with PVC coating head harness – polyethylene visor – cellulose propionate Protection factor (NPF) 50 EN 12941 TH2, EN 14594 2A Certification

CA40×1/7"

Product description	Product code
Complete hoods	
Short hood CA-1 orange	71 01 00
Short hood CA-1 blue	71 01 00B
Spare parts, accessories	
Protection film	70 01 20/10
(suitable for CA-1, 2 and 10, pack of 10 pcs)	
Winter cap + 1 sweatband	71 01 10
Sweatband CleanAIR® (pack of 10 pcs)	16 70 01/10

### This light extended hood combines the protection of breathing paths with the protection of the face, head, neck and shoulders.

Comfortable and adjustable headband (the head circumference and height are adjustable in three levels) ensures excellent wearer comfort. The size of the hood can be adjusted at two points – on the neck and scruff. The wide panoramic visor enables good orientation and has a special anti-fog coating. The hood is available as well in chemically resistant version with taped seams, and can be decontaminated.

#### Areas of application

- Dusty environments
- Chemical environments
- Painting operations
- Laboratories
- Pharmaceutical industry
- Chemical spraying

#### Available colours

• Orange, blue, grey – chemically resistant



Weight	250 g	
Dimensions	640 mm / 780 mm	/ 300 mm
Material	hood – polyester with PVC coating ("Tychem F" chemically resistant head harness – polyethylene visor – cellulose propionate)	
Protection factor (NPF)	50	
Certification	EN 12941 TH2, EN 14594 2A	
Hose connection	CA40×1/7"	
Product description		Product code
Complete hoods		
Complete hoods Long hood CA-2 orange		71 02 00
Long hood CA-2 orange		71 02 00
Long hood CA-2 orange Long hood CA-2 blue		71 02 00 71 02 00B
Long hood CA-2 orange Long hood CA-2 blue Long hood CA-2 chemical	ly resistant – grey	71 02 00 71 02 00B
Long hood CA-2 orange Long hood CA-2 blue Long hood CA-2 chemical <b>Spare parts, accessories</b> Protection film	ly resistant – grey ), pack of 10 pcs)	71 02 00 71 02 00B 71 02 00G

Hose connection

CHEMI

# Long hood CA-2



### Universal hood CA-10

(Clean AIR<sup>®</sup>)

Hood with a double sealing line (around the face and neck) with a high protection level (TH3) protecting the respiratory system, face, head and neck of the user.

The adjustable headband ensures perfect fitting (the head circumference and height are adjustable in three levels). The size of the hood can be adjusted at two points – on the neck and scruff. The wide panoramic visor enables good orientation and has a special anti-fog coating. The hood is available as well in chemically resistant version with taped seams, and can be decontaminated.

### Areas of application

- Dusty environments
- Chemical environments
- Painting operations
- Laboratories
- Pharmaceutical industry
- Environments with high chemical
- resistance requirements
- Chemical spraying

#### Available colours

• Orange, blue, grey – chemically resistant



Weight	225 g (250 g chemically resistant)
Dimensions	150 mm / 450 mm / 300 mm
Material	hood – polyester with PVC coating ("Tychem F" chemically resistant head harness – polyethylene visor – cellulose propionate)
Protection factor (NPF)	500
Certification	EN 12941 TH3, EN 14594 3A
Hose connection	CA40×1/7"

Product description	Product code
Complete hoods	
Universal hood CA-10 orange	71 10 00
Universal hood CA-10 blue	71 10 00B
Universal hood CA-10 chemically resistant – grey	71 10 00G
Spare parts, accessories	
Protection film (pack of 10 pcs)	70 01 20/10
Winter cap + 1 sweatband	71 01 10
Sweatband CleanAIR® (pack of 10 pcs)	16 70 01/10



# Universal hood CA-10

### Protective shield CA-3

(Clean AIR<sup>®</sup>)

(Clean AIR°)

### A light protective shield with an easily exchangeable acetate visor part provides respiratory and face

protection against splash of chemicals.

The comfortable and adjustable headband ensures excellent wearer comfort.

Acetate visor guarantees high chemical resistance. Suitable for environments with higher chemical protection requirements. Attention! This type of visor is not recommended for grinding operations. According to EN 166 it provides protection against liquid spraying.

### Areas of application

- Chemical industry
- Laboratories
- Spray painting

Weight	520 g
Dimensions	300 mm / 350 mm / 220 mm
Material	shield body – polyamide headband – polyamide visor – acetate
Protection factor (NPF)	50
Certification	EN 12941 TH2, EN 14594 2A
Hose connection	CA40×1/7"

Product description	Product code
Complete hoods	
Protective shield CA-3 (acetate)	71 03 01
Spare parts, accessories	
Spare protective visor acetate	71 03 33
Face seal	70 21 53
Protection film (pack of 10 pcs)	71 03 20
Sweatband CleanAIR® (pack of 10 pcs)	16 70 01/10



Acetate - high chemical resistant visor ensures protection of the face and eyes against splash of chemicals.

#### Areas of application

- Chemical industry
- Laboratories
- Chemical spraying

Technical data	
Weight	850 g
Dimensions	290 mm / 230 mm / 300 mm
Material	safety cap – polyethylene head harness – textile visor – cellulose propionate hood – polyester with PVC coating flip-up visor – acetate
Protection factor (NPF)	50
Certification	EN 12941 TH2, EN 14594 3A, EN 166, EN 397
Hose connection	CA40×1/7"

# Safety helmet CA-4

The CA-4 safety helmet combines respiratory protection with protection of the head,

> The wide panoramic visor with an anti-fog coating enables good orientation. An additional flip-up acetate visor can be supplied with the helmet.

Product description	Product code
Complete hoods	
Safety helmet CA-4 – orange face seal	71 04 01*
Spare parts, accessories	
Protection film (pack of 10 pcs)	70 01 20/10
Face seal including visor – orange	71 04 61*
Flip-up visor Surefit – acetate	70 04 42A
Holder of the flip-up visor	70 04 37
Earmuffs including adaptors for safety helmet	70 04 40.2
Sweatband CleanAIR® (pack of 10 pcs)	

\* If blue face seal required, please, add "B" to the end of the product code



### Chemical 2F Asbest

### | Clean AIR<sup>®</sup> |

(Clean AIR<sup>®</sup>)

The system is now available

with Shigematsu CF02

This combination of the powered air purifying respirator Chemical 2F and the full face mask Shigematsu is a reliable solution for respiratory protection in environments contaminated by asbestos fibers.

The construction of the system allows easy decontamination thanks to Ingress protection IP64, full colour TFT display clearly shows all the relevant information. Advanced electronic system for warning the wearer in case of low airflow or low battery charge. Despite its compact design and low weight, the Chemical 2F ensures air flow constant in ranges from 160 up to 235 lpm with either combined or particulate filters. The unique automatic closing system prevents unwanted contamination while the filters are being changed.

The new high capacity Li-lon battery finally available!

No more necessary to change or recharge battery during long shift including combination with gas and vapour filters.

### Features & Benefits Shigematsu GXO2

- Double seal flange providing maximal seal with a high level of comfort for the wearer
- Wide exchangeable panoramic visor providing a maximal visual field
- Special surface treatment which guarantees high scratch resistance
- The six point head harness ensures secure and easy fit
- Standard connection thread RD40×1/7" according to EN 148-1
- The mask is fully approved according to EN 136 and EN 12942
- Available sizes S, M and L

Shigematsu GX02 - double seal flange providing maximal seal with a high level of comfort for the wearer and wide exchangeable panoramic visor providing a maximal visual field.

### Features & Benefits Chemical 2F

- Compact design and low weight
- High mechanical and chemical resistance
- Advanced electronic system for warning the wearer
- Full colour TFT display
- Can be decontaminated by a shower Ingress protection IP64

5

- Operation life up to 10 h (standard battery)
- High nominal protection factor NPF 2000

ASBESTOS

## Chemical 2F Asbest

Product description	Product code
Complete sets	
CleanAIR <sup>®</sup> Chemical 2F with activated "Asbestos" profile, including accessories (battery, charger, decontaminable Hypalon belt and flow indicator)	51 00 00ASD
CleanAIR® Chemical 2F with activated "Asbestos" profile including accessories (battery, charger, decontaminable rubber belt and flow indicator)	51 00 00ASR
Full face mask GXO2, size S	71 O6 OOS
Full face mask GXO2, size M	71 06 00M
Full face mask GXO2, size L	71 06 OOL
Full face mask CFO2, size M	72 06 00M
Full face mask CFO2, size L	72 06 OOL
Spare parts, accessories	
Light flexi hose QuickLOCK™ - CA40x1/7"	71 00 60
Rubber hose QuickLOCK™ – CA40×1/7" / 90°	71 00 86L
Battery Li-Ion Standard 14,4 V / 2,6 Ah	51 00 10
Battery Li-Ion Heavy Duty 14,4 V / 5,2 Ah	51 00 20
Battery charger	51 00 30EUR
Particle filter P3	50 00 48



Technical data Chemi	ical 2F
Air flow	160–235 lpm
Weight	960 g (including standard battery)
Noisiness	max. 62 dB
Dimensions	240 mm / 110 mm / 120 mm
Battery	Li-Ion 14,4 V / 2,6 Ah
Certification	EN 12941 TH3, EN 12942 TM3
	•

For technical details of Shigematsu GXO2 see page 60 For technical details of Shigematsu CF02 see page 62

### (Clean AIR<sup>®</sup>)

(Clean AIR°)

*Shigematsu GXO2* – double seal flange providing maximal seal with a high level of comfort for the wearer and wide exchangeable panoramic visor providing a maximal visual field.



*Shigematsu CF02* – the new lightweight mask with superior spherical visor.



#### Features & Benefits CA Asbest

- Compact design and lightweight 385 g
- Simple operation
- Possible to connect it directly with the mask
- Can be decontaminated by a shower Ingress protection IP65
- Operation life up to 5 h
- High nominal protection factor NPF 2000

#### Areas of application

• Building industry, remediation operations

Weight	385 g (including battery and filter
Filter type	Particle P R SL
Connection	RD40×1/7"
Battery	Li-Ion 7,2 V / 2,6 Ah
Operation time	5 h
Protection factor (NPF)	2000
Certification	EN 12942 TM3

### powered air purifying respirator which is designed for active respiratory and face protection with remediation of materials containing asbestos.

Exceptionally light and compact

The complete system with a full face mask Shigematsu and a highly effective filter against particles guarantees high nominal protection factor (NPF 2000), sufficient airflow and simple decontamination. Special emphasis has been placed on the low weight, simple operation and long operation life of the system. Thanks to its construction, the respirator can be connected directly with the full face mask or with the help of an adaptor (supplied with the respirator) placed on a belt and connected with a hose.

### Asbest



ASBESTOS

### Asbest



Product description	Product code
Complete sets	
CleanAIR® Asbest including accessories (two batteries, filter, hose with holder, charger, belt, flow indicator and mask GXO2 size S)	59 16 OOS
CleanAIR® Asbest including accessories (two batteries, filter, hose with holder, charger, belt, flow indicator and mask GXO2 size M)	59 16 OOM
CleanAIR® Asbest including accessories (two batteries, filter, hose with holder, charger, belt, flow indicator and mask GXO2 size L)	59 16 OOL
CleanAIR® Asbest including accessories (two batteries, filter, hose with holder, charger, belt, flow indicator and mask CFO2 size M)	59 26 OOM
CleanAIR® Asbest including accessories (two batteries, filter, hose with holder, charger, belt, flow indicator and mask CFO2 size L)	59 26 OOL
CleanAIR® Asbest including accessories (battery, filter, hose with holder, charger, belt and flow indicator – without mask!)	59 00 02
CleanAIR® Asbest including accessories (two batteries, filter, hose with holder, charger, belt and flow indicator – without mask!)	59 00 O2T
For ordering set with UK charger, please, add "U" to the end	d of the product code
Spare parts, accessories	
Light flexi hose for CA Asbest	70 00 87CA
Rubber belt incl. hose with holder	56 00 20
Belt for CA Asbest	70 00 97
Battery Li-Ion 7,2 V / 2,2 Ah	59 00 13
Battery charger (EURO plug)	59 00 30
Battery charger (UK plug)	59 OO 3OU
CleanAIR® Asbest without battery and filter	59 00 00

More information about Shigematsu masks and available accessories on pages 60, 62

Filters

Filter P R SL for CA Asbest

56 00 10

### Shigematsu GXO2

(Clean AIR<sup>®</sup>)

(Clean AIR°)

### The full face mask Shigematsu GXO2 uses a double seal flange which provides maximal seal while keeping a high level of comfort for the wearer.

The mask has a wide panoramic visor which provides a maximal visual field and a speech diaphragm which facilitates communication. The exchangeable polycarbonate visor has a special surface treatment which guarantees high scratch resistance. The mask body is made from high quality silicone which guarantees high resistance and a long operation life.







Visor protection plate for full face masks Shigematsu GXD2. Prevents the mask visor from scratching and thus prolongs its life.

# Shigematsu GXO2

### Features & Benefits

- Double seal flange
- Wide panoramic visor
- Anti scratch coating
- The six point head harness
- Standard connection thread RD40×1/7"
- Two exhalation valves for low breathing resistance
- Approved according to EN 136 and EN 12942 TM3

### Areas of application

- Chemical industry
- Laboratories
- Building industry
- Remediation operations

610 g
S, M, L
mask body – silicone rubber visor – polycarbonate head harness – natural rubber
RD40×1/7"
2000
EN 136 CL3, EN 12942 TM3

Product description	Product code
Complete sets	
Full face mask GXO2, size S	71 06 00S
Full face mask GXO2, size M	71 06 00M
Full face mask GXO2, size L	71 06 OOL
Spare parts, accessories	
Visor protection plate	71 06 20
Head harness	71 06 80
Inner mask including inner valves	71 06 90S/M/L*
Inhalation valve – set (membranes 5 pcs + 1 gasket)	71 06 95
Exhalation valve – set (membranes 5 pcs + 1 gasket)	71 06 96

 $\star$  Please choose the proper size of the inner mask – S, M or L

### Shigematsu CF02

### (Clean AIR<sup>®</sup>)

(Clean\_AIR°)

### The full face mask Shigematsu CF02 the new lightweight mask with superior spherical visor

The mask has a superior spherical visor which minimizing distance between the eves and the visor. This design feature eliminates distortion and provides clear and broad field of vision. Special surface treatment prevents the visor from scratching. The mask body is made from high quality Styrene TPE which guarantee high resistance and a long operation life. The six point head harness ensures secure and easy fit. Non-sticky surface prevents hair entaglement. The mask is fitted with a standard connection thread RD40×1/7" according to EN 148-1 and thus enables wearers to use a wide range of canister filters and powered air purifying systems CleanAIR®. The mask is fully approved according to EN 136 and EN 12942.



Visor protection plate for full face masks Shigematsu CF02. Prevents the mask visor from scratching and thus prolongs its life.

#### Features & Benefits

- Lightweight 435 g
- Superior spherical visor
- Anti scratch coating
- The six point head harness
- Standard connection thread RD40×1/7
- Two exhalation valves low breathing resistance
- Approved according to EN 136 CL3 and EN 12942 TM3

#### Areas of application

- Chemical industry
- Laboratories
- Building industry
- Remediation operations



Technical data	
Weight	435 g
Available sizes	M, L
Material	mask body – Styrene TPE visor – polycarbonate head harness – Urethane TPE
Connection	RD40×1/7"
Protection factor (NPF)	2000
Certification	EN 136 CL3, EN 12942 TM3

Product description	Product code
Complete sets	
Full face mask CFO2, size S	72 06 00M
Full face mask CFO2, size M	72 06 00L
Spare parts, accessories	
Visor protection film	72 06 20
Head harness	72 06 80
Inhalation valve – set	72 06 95
(membranes 5 pcs + 1 gasket)	
Exhalation valve – set	72 06 96
(membranes 5 pcs + 1 gasket)	
	-

# Half mask CA-5

### This universal single filter half mask

with connection thread RD40×1/7" according to EN 148-1 is made from resistant thermoplastic elastomer and has a four point head harness which ensures comfortable and safe fitting. Its 40 mm connection thread can be used with certified canister filters with weights lower than 300 g or CleanAIR® powered air purifying respirators.



• Low weight, high level of comfort • Universal size • Standard connection thread according to EN 148-1

### Areas of application

• Light industrial environments • Building industry Agriculture

Technical data		
Weight	115 g	
Size	one size fits all	
Material	TPE rubber	
Connection	RD40×1/7"	
Protection factor (NPF)	200	
Certification	EN 140, EN 12942 TM2	

Product description	Product code
Complete sets	
Half mask CA-5	70 05 00
Spare parts, accessories	
Head harness	70 05 03
Inhalation valve – set	70 05 07
Exhalation valve – set	70 05 08

### Filters

[CleanAIR<sup>®</sup>]

### (CleanAIR<sup>®</sup>)

The complete production programme of CleanAIR<sup>®</sup> canister filters offers a wide choice of filters for most industrial applications, the pharmaceutical industry, laboratories and agriculture.

The filters are supplied with a standard connection thread RD40×1/7" according to EN 148-1.

#### Particle filters

They catch a wide range of solid particles in the form of liquid and solid aerosols such as dust, smoke, fibers, bacteria, viruses and radioactive particles. Certification: EN 143, EN 12941, EN 12942

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

#### **Combined filters**

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

### TYPES OF GAS FILTERS – EXAMPLES OF APPLICATION

#### Type: A • Colour code:

Areas of application: organic gases and vapours with a boiling point above 65 °C The main group of these substances are hydrocarbons (e.g., toluene, benzene, xylene, styrene, cyclohexane, trichloroethylene, tetrachlormethan), organic solvents and thinners (petrol, kerosene, diesel, mineral turpentine, ethylenglycol, methyl isobutyl ketone, isobuthanol, etc.).

### Type: AX • Colour code:

Areas of application: organic gases and vapours with a boiling point below 65 °C Substances with a low boiling point are, for example, acetone, acetaldehyde, acrylaldehyde, butane, butadiene, diethyl ether, dichloro ether, dichloromethane, ethylene oxide, methanol, trichloromethane, vinyl chloride.

#### Type: B • Colour code:

Areas of application: inorganic gases and vapours, e.g., fluorine, chlorine, hydrogen sulphide, hydrogen cyanide, hydrogen bromide, hydrogen chloride, hydrogen peroxide.

#### Type: E • Colour code: 📒

Areas of application: acid gases and vapours (e.g., sulphur dioxide, sulphuric acid, hydrochloric acid, formic acid, hydrogen fluoride).

Type: K • Colour code: Areas of application: ammonia and organic amines (e.g., methylamine, ethylamine, dimethylamine).







### Type: Hg-PSL • Colour code:

**Areas of application:** Areas of application: mercury vapour and its compounds (always supplied in combination with a filter against particles P3).

### PARTICLE FILTERS

Type: P3 • Colour code: Dimensions: diameter / height: 110 mm / 50 mm Weight: 90 g Product code: 50 00 48

Type: P3 with two threads RD40×1/7" • Colour code: Dimensions: diameter / height: 110 mm / 65 mm Weight: 130 g Connection: Inlet RD40×1/7", outlet RD40×1/7" (internal thread) Areas of application: particles in the form of solid and liquid aerosols (dusts, fibers, toxic and non-toxic fumes, bacteria, viruses) Product code: 50 02 48

### GAS FILTERS

Type: A2 • Colour code: Dimensions: diameter / height: 110 mm / 78 mm, Weight: 265 g Areas of application: organic gases and vapours with a boiling point above 65 °C Product code: 50 01 56





#### Type: B2 • Colour code:

Dimensions: diameter / height: 110 mm / 78 mm, Weight: 400 g Areas of application: inorganic gases and vapours Product code: 50 01 61

### Type: K2 • Colour code:

Dimensions: diameter / height: 110 mm / 78 mm, Weight: 265 g Areas of application: ammonia and organic amines Product code: 50 01 59

#### Type: A2B2 • Colour code:

Dimensions: diameter / height: 110 mm / 78 mm, Weight: 400 g Areas of application: organic gases and vapours with a boiling point above 65 °C and inorganic gases and vapours Product code: 50 01 58

### Type: A2B2E2 • Colour code: 📰 📰

Dimensions: diameter / height: 110 mm / 78 mm, Weight: 400 g Areas of application: organic gases and vapours with a boiling point above 65 °C, inorganic gases and vapours and acid gases and vapours Product code: 50 01 63

#### Type: A2B2E2K2 • Colour code: 🔜 🔜 🔜

Dimensions: diameter / height: 110 mm / 78 mm, Weight: 400 g Areas of application: organic gases and vapours with a boiling point above 65 °C, inorganic gases and vapours, acid gases and vapours, ammonia and organic amines Product code: 50 01 69

### COMBINED FILTERS

Type: A2P3 • Colour code: Dimensions: diameter / height: 110 mm / 95 mm, Weight: 325 g Areas of application: organic gases and vapours with a boiling point above 65 °C, particles Product code: 50 01 57

Type: A1P3 - filter with low sorption capacity - class 1 Filter is not suitable against very high concentration of contaminants • Colour code: Dimensions: diameter / height: 110 mm / 95 mm, Weight: 295 g Areas of application: organic gases and vapours with a boiling point above 65 °C, particles Product code: 50 03 57

#### Type: B2P3 • Colour code:

Dimensions: diameter / height: 110 mm / 95 mm, Weight: 400 g Areas of application: inorganic gases and vapours, particles Product code: 50 01 62







Type: K2P3 • Colour code: Dimensions: diameter / height: 110 mm / 95 mm, Weight: 400 g Areas of application: ammonia and organic amines, particles Product code: 50 01 60

Type: A2B2P3 • Colour code: Dimensions: diameter / height: 110 mm / 95 mm, Weight: 425 g Areas of application: organic gases and vapours with a boiling point above 65 °C, inorganic gases and vapours, particles Product code: 50 01 67

Type: A2B2E2P3 • Colour code: Dimensions: diameter / height: 110 mm / 95 mm, Weight: 400 g Areas of application: organic gases and vapours with a boiling point above 65 °C, inorganic gases and vapours, acid gases and vapours, particles Product code: 50 01 64

Type: A1B1E1P3 – filter with low sorption capacity – class 1 Filter is not suitable against very high concentration of contaminants • Colour code: Dimensions: diameter / height: 110 mm / 95 mm, Weight: 280 g Areas of application: Areas of application: organic gases and vapours with a boiling point above 65 °C, inorganic gases and vapours, acid gases and vapours, particles Product code: 50 03 64

Type: A2B2E2K2P3 • Colour code: Dimensions: diameter / height: 110 mm / 95 mm, Weight: 400 g Areas of application: organic gases and vapours with a boiling point above 65 °C, inorganic gases and vapours, acid gases and vapours, ammonia and organic amines, particles Product code: 50 01 68

Type: A2B2E2K2HgP3 • Colour code: Dimensions: diameter / height: 110 mm / 95 mm, Weight: 425 g Areas of application: organic gases and vapours with a boiling point above 65 °C, inorganic gases and vapours, acid gases and vapours, ammonia and organic amines, mercury compounds and vapours, particles Product code: 50 01 66

Type: A2B2E2SXP3 • Colour code: Dimensions: diameter / height: 110 mm / 95 mm, Weight: 400 g Areas of application: organic gases and vapours with a boiling point above 65 °C, inorganic gases and vapours, acid gases and vapours, particles and OZONE. (Ozone is formed in the welding arc, especially during plasma-arc, MIG and TIG processes.) Product code: 50 01 73





CARE ABOUT VISORS

Dimensions: 148×48×27 mm

Dimensions: 95×41×17 mm

Product code: 01 10 17

CleanAIR<sup>®</sup> Klar-pilot Comfort

Volume: 100 ml Product code: 01 11 00

Volume: 17 ml

### Accessories

CleanAIR® Klar-pilot – for care about all CleanAIR®

visors. 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

| Clean AIR<sup>®</sup> |

(Clean AIR<sup>®</sup>)

### ACCESORIOS PARA LOS FILTROS

Cinturón confort de cuero	72 00 93

Cinturón confort de piel CleanAIR® AerGO® 32 00 92

### FILTER ACCESSORIES

Spark arrester prevents the main filter from being damaged by hot sparks.

**Pre-filter** traps the coarse particles and thus prolong the life time of the main filter.

Odour filter apart from trapping the coarse particles it even removes unpleasant odours.

### CleanAIR<sup>®</sup> AerGO<sup>®</sup>

Spark arrester (set of 10 pcs)	30 00 20
<b>Pre-filter</b> (pack of 10 pcs)	30 00 15
<b>Odour filter</b> (pack of 10 pcs)	30 00 25
<b>Protection set</b> (filter cover 2 pcs, spark arrester 2 pcs, prefilter 2 pcs)	30 00 30

### CANISTER FILTERS (CHEMICAL 2F, 3F AND DF)

Pre-filter set for canister filters (Pre-filter 10 pcs + pre-filter keeper 1 pc) 50 01 10 (Pre-filter 50 pcs + pre-filter keeper 1 pc) 50 01 10X

Protection set for canister filters [2+2+2] 50 01 12 [Pre-filter 2 pcs, spark arrester 2 pcs, keeper 2 pcs]

Protection set for canister filters (3+3+3) 50 01 13 (Pre-filter 3 pcs, spark arrester 3 pcs, keeper 3 pcs)

### CleanAIR<sup>®</sup> BASIC 2000

Pre-filter (pack of 10 pcs) 80 00 15 Odour filter (pack of 10 pcs) 80 00 20

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Made of flame retardant fabric, protect the wearer from hot sparks and welding spatter. Universal pattern for most of welding hoods and headbands.

Head protection 16 40 00 Neck protection 16 90 00

### HOSE PROTECTION

Chemical resistant protective sleeve chemical resistant, made of Tychem-F Product code: 70 00 62C

Flameproof protective sleeve – flameproof, made of flame retardant fabric, self-adjusting lenght Product code: 71 00 62F







### Accessories



### Accessories

### | Clean AIR<sup>®</sup> |

Decontamination filter cover

Product code: 58 00 13

Protects the filter against incoming

water during decontamination process

(Clean AIR<sup>®</sup>)

### DECONTAMINABLE ACCESSORIES



Decontamination set for Chemical 2F/3F

Decontamination set 2F 51 00 46 (2× plug with external thread, 1× cap with internal thread) Decontamination set 3F 52 00 46 (3× plug with external thread, 1× cap with internal thread)

### SAFE TRANSPORT AND STORAGE

CleanAIR® duffel bag – High quality materials and reinforced bottom for greater durability. Adjustable, padded, shoulder strap. Roomy main zippered compartment and large front pocket.

Lightweight and versatile

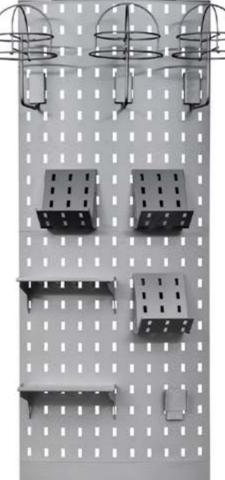
Dimensions: 250×250×520 mm Product code: 70 00 07



CleanAIR

The second







### **Respiratory Protection**



### **CRYSTAL SIGN**

### A stable, strong and portable construction

- A durable and easy to assemble solution
- sheet with MDF base

- An effective and space saving way of displaying the brand • High quality PVC banner material with eyelets for easy attachment to the stand • Quick and easy installation Dimension 600×1600 mm

### Accessories

### CleanAIR<sup>®</sup> DISPLAY SYSTEM

• Stand dimensions: 2000×600×400 mm (height / width / depth) • Capacity: up to 4 pcs of different headpieces and 4 pcs of PAPR's • Packaging: two cardboard boxes • Dimensions of packaging: 340×585×715 mm – stand 285×425×430 mm – accessories • Power supply: input 100–240 V

• Lightbox with CleanAIR® logo, illumination based on LED technology • Brand support and permanent communication at the point of sale

- Powder coated and structured

### Shop space saving and efficient usage

- Distinctive position at the point of sale • Easy to change display, thanks to a variable system of racks and fixtures
- Easy operation during the presentations to prospective client



### CleanAIR® X-BANNER

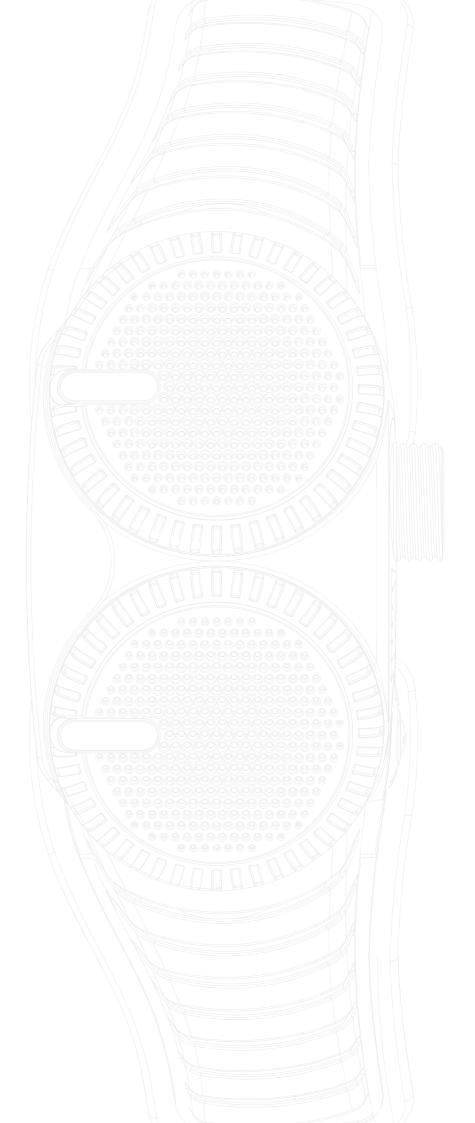
Various graphics designs – please contact us for further information.

### → APPROVED COMBINATIONS - HOODS

Protective hoods / respiratory units	AerG0°	Basic EVO	Chemical 3F	Chemical 2F	Pressure Flow Master	Pressure	Pressure ARES
Standards / classification	EN 12941	EN 12941	EN 12941	EN 12941	EN 14594	EN 14594	EN 14594
Short hood CA-1	TH2	TH2	TH2	TH2	2A	2A	_
recommended hose	71 00 60	71 00 60	71 00 60	71 00 60	71 00 60	71 00 60	_
Long hood CA-2	TH2	TH2	TH2	TH2	2A	2A	-
recommended hose	71 00 60	71 00 60	71 00 60	71 00 60	71 00 60	71 00 60	_
Universal hood CA-10	тнз	тнз	тнз	тнз	3A	_	_
recommended hose	71 00 60	71 00 60	71 00 60	71 00 60	71 00 60	_	_
Grinding shield CA-3	TH2	TH2	TH2	TH2	2A	2A	_
recommended hose	71 00 60	71 00 60	71 00 60	71 00 60	71 00 60	71 00 60	_
Safety helmet CA-4	TH2	TH2	TH2	TH2	3A	2A	_
recommended hose	71 00 60	71 00 60	71 00 60	71 00 60	71 00 60	71 00 60	
Safety helmet CA-40 (incl. CA-40G and CA-40GW)	TH2	TH2	TH2	TH2	28	2A	_
recommended hose	71 00 60	71 00 60	71 00 60	71 00 60	71 00 60	71 00 60	_
Welding hood CA-20	тнз	тнз	тнз	тнз	3B	_	_
recommended hose	71 00 60	71 00 60	71 00 60	71 00 60	71 00 60	_	_
Welding hood CA-23	_	TH2	_	_	_	_	_
recommended hose	_	71 00 60	_	_	_	_	_
Welding hood CA-28 Euromaski	TH2	TH2	_	TH2	2A	2A	_
recommended hose	71 00 60	71 00 60		71 00 60	71 00 60	71 00 60	_
Welding hood CA-29 Evolve	TH2	TH2	_	TH2	2B	_	_
recommended hose	71 00 60	71 00 60	_	71 00 60	71 00 60	_	_
Welding hood ARES II	_	_	_	_	_	_	3B
recommended hose	_	_					71 83 30

#### → APPROVED COMBINATIONS - MASKS

Protective masks / respiratory units	Chemical 3F	Chemical 2F	Asbest	Pressure for Mask
Standards / classification	EN 12942	EN 12942	EN 12942	EN 14594
Half mask CA-5	TM2	TM2	_	_
recommended hose	71 00 86L 71 00 60	71 00 86L 71 00 60	_	_
Shigematsu GXO2	тмз	ТМЗ	тмз	48
recommended hose	71 00 86L 71 00 60	71 00 86L 71 00 60	70 00 87CA	65 00 30
Shigematsu CFO2	тмз	тмз	тмз	_
recommended hose	71 00 86L 71 00 60	71 00 86L 71 00 60	70 00 87CA	_



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MALINA - Safety s.r.o. Luční 1391/11 466 01 Jablonec nad Nisou Czech Republic Tel.: +420483356600 export@malina-safety.cz

www.malina-safety.cz