

CHEMICLEAN PRODUCTS

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Clean-air®

**Battery Powered
“Go-Anywhere” Full Face Respirators**



Available from our web page:
<http://www.chemiclean.co.uk/clean-air.htm>

**Manufacturers and Distributors of
Cleaning and Maintenance Products
Paper Products
Wipers**

Quality and Service with a Smile!!!

Clean-air®

Basic 2000

A time-tested powered respiratory system determined for workplaces with air contaminated by particles. An easily exchangeable P3 particle filter protects against solid and liquid particles (eg. toxic dust, smoke, fibres, mists, fumes, bacteria and viruses). The round design with a silver lid tracing the filter shape gives the unit its unique visage and well-balanced gravity ensures wearing comfort.



Basic 2000 Dual Flow

The unit can be operated at "EKO" or "TURBO" modes with the flow rate of either 160 or 210 l/min. The Turbo regime is especially valuable for hard work and for work in hot areas. The ECO regime with a lower but sufficient air flow of 160 l/min prolongs the operating time. A flow indicator which enables to check the limit level of the airflow is included.

Basic 2000 Flow Control

The unit providing a higher class protection offers more options of airflow level, moreover the special electronics keeps the constant airflow rate regardless of battery voltage and filter clogging. Option of 8 air flow levels will satisfy the most demanding users.

The unit is easily operated by the control panel with pictograms. The LED display shows the chosen airflow, after pressing a button the user gets information about the remaining battery voltage or filter capacity. If the flow rate falls below 140 l/min the acoustic and visual signal starts up.



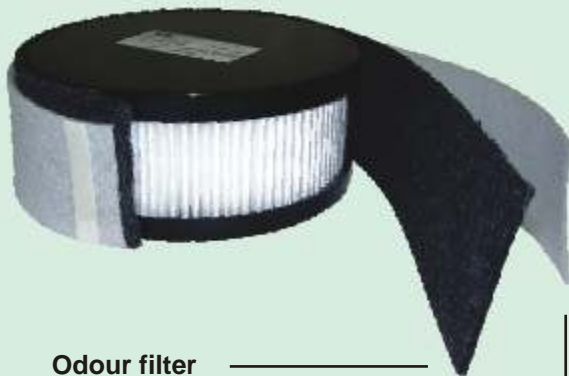
Technical specification.:	CA Basic 2000 Dual Flow	CA Basic Flow control
Initial flow rate:	*160 l/min – 140 l/min - regime ECO	140 – 210 l/min
Final flow rate:	*200 l/min – 180 l/min – regime TURBO	(8 optional levels)
Weight (incl.filter and battery):	900 g	900 g
Filter type	PSL	PSL
Filter efficiency:	99,998%	99,998%
Noisiness:	max. 61 dB	max. 61 dB
Operating duration:	**6-9 h	**6-10 h
Certification:	EN 12 941 TH1PSL	EN 12 941 TH2/TH3 PSL

*with fully charged battery and clean filters **parameters depend on the chosen operating regime

Filter for Clean-Air Basic 2000

is a particle filter that provides protection against all types of particles (dust particles, solid and liquid aerosols, toxic smoke). The filter separates no less than 99,9998% of the pollution in the air.

Certification: EN 12941, type PSL
 Temperature range for storage and service: 0°C to + 40°C
 Dimensions: (diameter / height): 132 / 55 mm
 Weight: 100 g



Odour filter

Prefilter

Prefilter for Clean-air Basic 2000

prolongs the life time of the main filter. Made of 100% PES suitable for air filtration, protects the PSL particle filter against premature clogging by larger particles. Can be easily fastened around a particle filter by sticky tapes which are ready for use on both sides of the prefilter.

Odour filter

Removes unpleasant odours and thus provides additional comfort.



Belt STANDARD

Easily adjustable, secure and durable belt is a basic accessory.

For waistline 70 - 130 cm.



Belt SUPER

Option for those users who like more comfort and increased back support.

For waistline 75 - 137 cm.

BATTERY Exchangeable NiMH battery can be charged on or off the unit.

Type: NiMH 4,8V/4,5Ah

Other components: hose with connection charger UK or Euro plug



Battery

Clean-air®

C h e m i c a l

A powered respiratory system for use against gaseous contaminants as well as their combination with particle pollutants. The unit is designed for standard filters with screw Rd40*1/7" acc. EN 148-1.

Two variants of CA Chemical:



Chemical Dual -Flow

A durable and powerful unit producing air flow of 200 l/min or 160 l/min according to the chosen regime:

The TURBO regime with the air flow of 200 l/min is especially valuable for users during hard work while the ECO regime with the air flow of 160 l/min reduces the airstream to the face piece and prolongs the operating time.



Chemical Flow-control

The unit is equipped with the latest electronics system to enable 2 operating modes and three airflow levels for each mode. The keyboard with pictograms makes the unit easy to operate.

Mode 1 - masks: the flow rate can be adjusted from 60 to 100 l/min.

Mode 2 - hoods : the flow rate can be adjusted from 125 to 160 l/min. The electronic system also ensures acoustic and visual alarm for low battery or blocked filters, current stage of battery capacity and filter clogging can be checked simply by touching the button.



Technical specification.:	CA Chemical Dual Flow	CA Chemical Flow control
Air flow:	*160 l/min - 140 l/min - ECO regime	60,80,100 l/min - mode masks
	*200 l/min - 180 l/min - TURBO regime	120,140,160 l/min - mode hoods
Weight: (incl. battery, w/o filters)	1050 g	1150 g
Noisiness:	max. 62 dB	max. 62 dB
Operating duration:	**6,5-12 h	**4-12 h
Battery type:	NiMH 6V/4,5Ah	NiMH 7,2V/4,5Ah
Certification:	EN 12 941	EN 12 941, EN 12 942

*with fully charged battery and clean filters **parameters depend on the chosen operating regime

Filters for Clean-air Chemical unit

Canister type filters with screw RD40 acc.EN148-1. Approval to EN141 or EN143 makes filters suitable for full face masks and half masks without air supply system. When used with CA Chemical unit it is necessary to have 3 filters of the same type.

Particle Filter		
	Type: P3 Colour code: <input type="text"/>	Diameter/height: 110 mm/ 50 mm Weight: 83 g
	Area of application: dust particles, solid and liquid aerosols, toxic smoke Certification: EN 12941, EN 143	
Gas Filters		
	Type: A2 Colour code: <input type="text"/>	Diameter/height: 110 mm/ 78 mm Weight: 225 g
	Area of application: organic gases and vapours with a boiling point above 65° C Certification: EN 12941, EN 141	
	Type: A2B2E2K2 Colour code: <input type="text"/>	Diameter/height: 110 mm/ 78 mm Weight: 312 g
	Area of application: organic gases and vapours with a boiling point above 65° C + inorganic + acid gases and vapours (eg.sulphur dioxide) + ammonia and organic ammonia derivatives Certification: EN 12941, EN 141	
Combined filters		
	Type: A2P3 Colour code: <input type="text"/>	Diameter/height: 110 mm/ 95 mm Weight: 275 g
	Area of application: as A2 filter + against dust particles, solid and liquid aerosols, toxic smoke and ozon Certification: EN 12941, EN 141	
	Type: A2B2E2K2P3 Colour code: <input type="text"/>	Diameter/height: 110 mm/ 95 mm Weight: 360 g
	Area of application: as A2B2E2K2 filter + against dust particles, solid and liquid aerosols, toxic smoke Certification: EN 12941, EN 141	
	Type: A2B2E2K2HgPSL Certification: EN 12941, EN 141	Combined filter for specific use against mercury vapor.

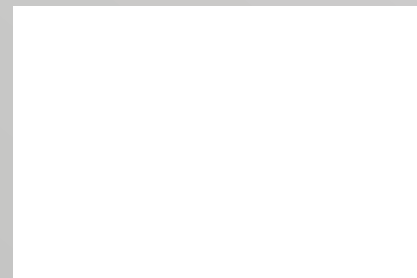
Useful accessories:



- prefilter
- prefilter keeper

Special offer:

filter with two RD40 threads
 details upon request



The unit provides conceptual solution for workplaces with the availability of compressed air supply from the distribution system or from a compressor. The great advantages it gives the end users are low weight, small dimensions usefull for work in narrow spaces and operating time not limited by the battery capacity. If the compressed air is not hygienically clean we have solution in providing air purification unit Clean-air Conditioner. This breathing protective system is suitable for working sites with a higher concentration of harmful substances and provides protection in compliance with EN 1835.



CA Pressure Flow control

The main component, inner pressure control valve, ensures the supply a constant amount of air into the hood. The inlet pressure has to be between 0,4 and 1,0 MPa.

The unit allows air supply adjustment by a swivel control knob. The control knob can be locked into any position so that the set airflow will not vary. The minimum flow is limited to 120 l/min.

A more efficient sound absorber contributes to noise reduction.

Maintenance-free operation, reliability and durability are common features of the both types of units.

In addition, the Flow control version is equipped with a checking pressure gauge for continues control of the respiratory system.

CA Pressure

Inner pressure control valve ensures supply of a constant amount of air into the hood, if the inlet pressure is in-between 0,4 - 1,0 MPa.

The unit in its latest version is equipped with an adjustment knob for regulation of air flow. The control knob can be locked into any position so that the set airflow will not vary. The minimum flow is limited to 120 l/min.

A more efficient sound absorber contributes to noise reduction.



Technical specification:	CA Pressure	CA Pressure Flow control
Air flow – adjustable:	120 - 300 l/min	120 - 300 l/min
Weight:	200 g	250 g
Noisiness:	max. 61 dB	max. 61 dB
Filter efficiency:	*P3	*P3
Certification:	EN 1835 LDH2	EN 1835 LDH2

*in use with Clean-air Pressure Conditioner

Clean-air Pressure Conditioner

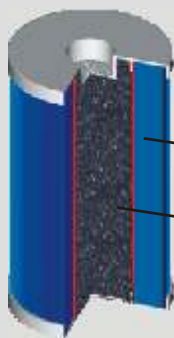
Two stage stationary pressure air preparation plant. The device is made of a strong metal container with high capacity combined filter inside. In first stage the air passes through HEPA particle filter with efficiency at P3 level, in the second through the inner part with with activated chargecoal. The filter removes solid particles, fine oil and water aerosols, oil fumes and odours. Filter does not remove carbone monoxide which can be present in the pressured air if the compressor maintenance is neglected.

The inlet quick coupling allows a single-handed assemble of the device to the airline distribution, outlet piece is prepared to connect up to two workers with CA Pressure unit. Checking pressure gauge measures the outlet pressure value.

Weight incl. filter:	aprox. 6,80 kg
Dimensions (height/ max.diameter):	38 / 20 cm
Min. inlet pressure:	0,4 MPa
Max. inlet pressure:	1,0 MPa
Connectors:	quick couplings Standard compatible with Rectus and Ceyn 320 1x inlet, 2x outlet



Combined filter



Weight: 500 g
Dimensions (height, diameter): 19,5 x 11 cm

Structure:
particle filtr
activated carbon

Hoses for pressured air - Linking hoses between CA Pressure and CAP Conditioner

spiral hose

length: 10 m
work. pressure < 2 MPa
weight: 0,60 kg



standard hose

length: 10 m
work. pressure < 2 MPa
weight: 2,10 kg



Connection scheme

compressed air supply → CA Pressure Conditioner → linking hose → CA Pressure unit with belt → headpiece with hose



Clean-air[®]

A s b e s t

***High efficiency
breathing protection***



**CA Asbest unit worn on the belt
and connected to the mask by a hose**



CA Asbest unit attached directly to the full face mask



Clean-air®

Asbest

Extra lightweight, compact and small powered respiratory device originally developed for workers manipulating with asbestos. The complete set with the fullfacemask and a high-efficiency particle filter meets professional requirements: TM3 protection, sufficient level of airflow and decontamination feasible by water shower.



A choice of the unit positioning

- mounted directly to the fullface mask
- carried on a rubber belt and connected to the mask via a hose

Filter:

A particle filter is able to separate toxic and non-toxic particles, solid and liquid aerosols with the efficiency of P3 level.

Protective fullface mask:

Based on ergonomical design and made of silicon rubber for the maximum wearer comfort. It is equipped with two exhalation valves and a panoramic visor. Five straps elastic harness made of rubber ensures good fit to the face.







Unit:

It delivers the stream of air into the fullface mask and thus reduces the breathing resistance which is particularly welcome for users who need to wear a mask for longer periods. Compact design of the unit and the quality sealed construction allow shower decontamination. The unit is powered by an exchangeable Li-Ion battery which runs for more than 5 hours and can be recharged in less than 5 hours. The whole system is easy to clean and maintain.

Technical data:

Flow rate, minimum:	160 l/min
Weight incl. filter and battery:	385 g
Filter: type	PSL
filter efficiency	min. 99,998 % (corresponding with P3 class)
Battery: type	Li-Ion 7,2V/2,20Ah
lifetime	500 charging cycles
Operating duration:	5 hours
Ingress Protection (IP):	IP65
Classification:	EN 12 942 TM3 PSL
Nominal protective factor:	2000

The broad offer of headpieces gives the Clean-air respiratory system its versatility and utilizability in a wide spectrum of applications beginning from food-processing and pharmaceutical industries, through agriculture up to chemical and heavy industries.

	<p>Light hood CA-1</p> <p>Extremely light hood of universal size, ideal for long wearing periods. Easy to put on and off. Elastic band ensures good fit around the head, vertical position is adjustable according to individual needs. The air stream delivered through the supply hose is flown over the crown of the head to the breathing zone. Air ventilation together with special antifog treatment prevents the visor from misting. The hood offers a wide undisturbed view. Options: grey or orange colour Weight: 120 g</p>
	<p>Universal hood CA-2</p> <p>Lightweight hood in the prolonged size giving comfort during extended use and suitable for people with glasses or a beard. Easy to put on and off. Elastic band ensures good fit around the head, vertical position is adjustable according to individual needs. The air stream delivered through the supply hose is flown over the crown of the head to the breathing zone. Air ventilation together with special antifog treatment prevent the visor from misting. The hood offers a wide undisturbed view. Options: grey or orange colour Weight: 155 g</p>
	<p>Universal hood CA-10</p> <p>Lightweight hood with all benefits of the hood CA-2. Moreover in combination with a special hose it achieves the highest nominal protection factor in its category, NPF 500. Options: in white colour only Weight: 160 g</p>
	<p>Full face mask CA-6</p> <p>Made of silicon rubber for the highest wearer comfort. Exchangeable panoramatic visor, standardly of polycarbonate glass, provides good vision. Five straps elastic harness made of rubber ensures good fit to the face. The mask is equipped with threaded connector RD40 x 1/7'' conforming with EN 148-1. Easily decontaminable. In one universal size. Weight: 500 g</p>

Suitable combinations and the class of protection:

Filtering device	Headpiece	CA-1	CA-2	CA-10	CA-6
classification to EN 12941					
CA Basic	Dual Flow	TH1	TH1	-	-
	Flow Control	TH2	TH2	TH3	-
CA Chemical	Dual Flow	TH1	TH1	-	-
	Flow Control	TH2	TH2	TH3	-
classification to EN 1835					
CA Pressure		LDH2	LDH2	LDH2	-
CA Pressure Flow Control		LDH2	LDH2	LDH2	-
classification to EN 12942					
CA Chemical Flow Control		-	-	-	TM3
CA Asbest		-	-	-	TM3

The broad offer of headpieces gives the Clean-air respiratory system its versatility and utilizability in a wide spectrum of applications beginning from food-processing and pharmaceutical industries, through agriculture up to chemical and heavy industries.



Grinding visor CA-3

Provides respiratory protection integrated with eye protection acc. EN 166. The standard version can be supplemented by a textile cap protecting hair in polluted conditions. Adjustable head harness ensures optimal fit. Supplied air is delivered by a channel to the breathing zone and smoothly spread inside the face shield. The visor can be selected out of three types.

Options: choice of 3 visors (polycarbonate, acetate, acetate with shade no.5), protective textile cap, exchangeable face seal in grey or orange colour
Weight: 480 g



Safety helmet CA-4

Represents the multifunctional protective system of „4 in one“ type. The standard version providing respiratory and head protection can be enhanced by an additional visor and ear muffs for eye and hearing protection. Safety helmet is especially suitable for hard working conditions in chemical industry and other branches.

Options: choice of 3 visors (polycarbonate, acetate, acetate with shade no.5), additional ear muffs, exchangeable face seal in grey or orange colour
Weight: 680 g without ear muffs



Welding hood CA-22

Stable, comfortable and well balanced welding hood with an integrated breathing system. The flip-up window of size 110 x 90 mm can be equipped with a fixed welding filter or an autodarkening cassette.

Options: choice of fixed welding filters or autodarkening welding cassettes with fixed or variable shade
Weight: 700 g



Welding hood CA-24

Lightweight and flexible welding hood with an integrated breathing system. The hood is determined for autodarkening cassettes with either inner or easily accessible external controls placed on the left side.

Options: wide range of autodarkening cassettes
Weight: 500 g

Suitable combinations and the class of protection:

Filtering device	Headpiece	CA-3	CA-4	CA-22	CA-24
classification to EN 12941					
CA Basic	Dual Flow	TH1	TH1	TH1	TH1
	Flow Control	TH2	TH2	TH2	TH2
CA Chemical	Dual Flow	TH1	TH1	TH1	TH1
	Flow Control	TH2	TH2	TH2	TH2
classification to EN 1835					
CA Pressure		LDH2	LDH2	LDH2	LDH2
CA Pressure Flow Control		LDH2	LDH2	LDH2	LDH2

Clean-air[®]

for welding

Increasing demands on personal protection bring the need of effective breathing protection during welding. An appropriate solution is to use a respiratory device which delivers a stream of clean air into the welding hood. The created overpressure prevents harmful substances in the surrounding air to enter into the hood. The system is effective, comfortable and does not increase the breathing resistance.



Welding hood CA-22 with integrated breathing protection

- stable, comfortable and well-balanced
- thickened rim around the visor contributes to the increased heat insulation
- two stage flip-up window
- for autodarkening cassettes or fixed welding filter of size 110 x 90 cm
- clear safety polycarbonate folio for perfect visibility at grinding, checking and other operations is positioned under the flip-up window
- easy exchange of folios and the welding filter
- EN 175 B
- for integrated breathing protection equipped with a face seal, sweatbands and an airduct

Welding hood CA-24 with integrated breathing protection

- lightweight and flexible, covering the great part of the head
- developed for use with an autodarkening cassette of size 110 x 90 cm, which minimises the need to raise and lower the helmet during work
- allows to use autodarkening cassettes with outside adjustment, control knobs are placed on the left outer side and thus easily accessible without taking off the helmet
- easy exchange of folios and the welding cassette
- smooth and functional design
- for integrated breathing protection equipped with a face seal,
- sweatbands and an airduct
- EN 175 S



Clean-Air respiratory systems for welding hoods

respiratory unit **CA Basic**
for protection against particles



classification:
with CA Basic Dual Flow:
EN 12941 TH1PSL

with CA Basic Flow Control:
EN 12941 TH2PSL

respiratory unit **CA Chemical**
for protection against particles,
gaseous contaminants and
combination of both



classification:
with CA Chemical Dual Flow:
EN 12941 TH1

with CA Chemical Flow Control:
EN 12941 TH2

airline unit **CA Pressure** for
protection against the complete
spectrum of contaminants



classification :
with CA Pressure Dual Flow:
EN 1835 LDH2

with CA Pressure Flow Control:
EN 1835 LDH2

Clean-air®

for welding

Autodarkening cassettes

They switch to the dark state automatically at the strike of an arc and they return to the clear state after welding is complete. Usage of an autodarkening cassette minimises the need to manipulate with a welding hood. Cassettes are powered by solar cells in combination with the built in battery. All filters are manufactured according to DIN and EN standards.

F11



V913



V913ES



V913GDS



Technical parametres	F11	V913	V913ES	V913GDS
appropriate type of the welding hood	CA-22 CA-24	CA-22 CA-24	CA-24	CA-24
size	110 x 90 mm	110 x 90 mm	110 x 90 mm	110 x 90 mm
viewing area	95 x 46,5 mm	95 x 46,5 mm	95 x 46,5 mm	95 x 46,5 mm
powered by	solar cells	solar cells	solar cells	solar cells
UV / IR protection	UV15 / IR 14	UV15 / IR 14	UV15 / IR 14	UV15 / IR 14
open state shade	3	4	4	4
closed state shade	11	9 - 13	9 - 13	9 - 13
switching time at 23°C	0,5 ms	0,2 ms	0,2 ms	0,2 ms
clearing time	0,2 s	0,4 s	0,4 s	0,2 - 0,8 s
shade adjustment	no	yes internal knob	yes external knob	yes external knob
opening time delay adjustment	no	no	no	yes external knob
sensitivity adjustment	no	yes internal knob	yes internal knob	yes internal knob
weight	75 g	95 g	112 g	112 g
range of temperature in use	-10°C to +60°C	-10°C to +60°C	-10°C to +60°C	-10°C to +60°C
certification	EN 379	EN 379	EN 379	EN 379

Useful accessories

- **neck protection**
for all types of welding hoods
- **head protection**
for all types of welding hoods
- **Tyvek**
inner protective hood
- **protective folios**
inner and outer
- **welding lens**
size 110 x 90 shade 9 to 13

