TECHNICAL DATASHEET

CleanAIR® Chemical 2F plus
Powered air purifying respirator

Description

The battery-powered air purifying respirator (PAPR), the breathing protective device for increasing comfort and safety when combined with approved headtops.

Application

In default Chemical 2F Plus provides protection against particulates, but is also capable to provide protection against wide range of contaminants when used with combined filters.

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Technical specification

Product code	51 00 00FCA		
Flow rate	Airflow [lpm]	Mode	Filter category
	120 / 140 / 160	Mask EN 12942	Particle
	120 / 140 / 160		Light combined (class 1)
	120 / 140 / 160		Heavy combined (class 2)
	160 / 185 / 210 / 235	Hood EN 12941	Particle
	160 / 185 / 210		Light combined (class 1)
	160		Heavy combined (class 2)
Battery	Standard battery		Heavy Duty battery
Voltage	14,4 V		14,4 V
Capacity	2,6 Ah		5,2 Ah
Charging time	< 3 hours		< 6 hours
Operation time*	< 10 hour*		< 20 hours*
Battery lifespan	up to 500 charging cycles		up to 500 charging cycles
Battery charger	Microprocessor controlled, fully automatic Input: 100 - 240 V (50/60 Hz) Output: 18 V (max. 1 500 mA) Multi plug: EUR, UK, US and AUS		
Weight	1 000 g (incl. standard battery, excl. filters)		
Dimensions	235 mm / 126 mm / 65 mm (with standard battery)		
Noisiness	< 70 dB		
Materials	Unit: high performance polyamide Belt: textile part - polyester/nylon/rubber foam plastic part - polyamide		
Motor	Ball-beared brushless motor		
Input / Output (threads)	Filter thread - RD40x1/7" - 2x Airflow output thread - CA40x1/7" - 1x		
Belt	Comfort padded belt		Comfort leather belt
Waist size:	up to 1 500 mm		up to 1 500 mm
Standard	EN 12941		EN 12942
Protection class / NPF**	TH3 / 500		TM3 / 2000

Ingress protection   IP64:
                 IP65:
                 IP68:
	When switched ON (without any further requirements)
	When switched ON (set of spark arresters and pre-filter holders - 50 01 12)
	When switched OFF (with plugged inputs and output - 51 00 46)		

Display	TFT display (262k colours, 160x160 px) (showing actual working mode, airflow, filter condition and battery status)		
Storage conditions Operating conditions	– 10°C to + 55°C, humidity 20 - 95 % RH + 0°C to + 60°C, humidity 20 - 95 % RH		

* with new P3 filters and fully charged battery / ** depends on used headtop

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Product sets / variations

51 00 00FCA*	Powered air purifying respirator CA Chemical 2F, standard battery, charger (EURO - plug), comfort padded belt, flow indicator
51 00 00FDA*	Powered air purifying respirator CA Chemical 2F, standard battery, charger (EURO - plug), decontaminable belt, flow indicator
51 00 00LA*	Powered air purifying respirator CA Chemical 2F, standard battery, charger (EURO - plug), comfort leather belt, flow indicator

* for ordering variation with UK plug please add „U" at the end of the product code; for AUS plug please add „-AUS" at the end of the product code

Spare parts and accessories

51 00 10	Standard battery Li-Ion 14,4 V / 2,6 Ah
51 00 20	Heavy Duty battery Li-Ion 14,4 V / 5,2 Ah
71 00 92	Comfort padded belt
72 00 92	Comfort leather belt
51 00 41	Decontaminable belt
51 00 42	Decontaminable harness
52 00 44.1	Comfort padded harness
71 00 60	Light flexi hose QuickLOCK™ - CA40x1/7"
71 00 86	Rubber hose QuickLOCK™ – CA40×1/7"
71 00 62F	Hose cover flameproof
70 00 62C	Hose cover chemical resistant
51 00 30EUR	Charger for CleanAIR® Chemical 2F (EURO - plug)
51 00 46	Set of plugs (2x external thread, 1x internal thread) for decontamination of unit 2F
52 01 01	TFT display protective foil
50 00 48	Particle filter P3
50 01 57	Combined filter A2P3
50 01 67	Combined filter A2B2P3
50 01 68	Combined filter A2B2E2K2P3
50 01 66	Combined filter A2B2E2K2HgP3

Technical features

Warning system - visual and audible warning for low airflow and low battery charge..

Flow control system - maintains level of airflow constant regardless filter clogging or battery charge.

Automatic closing system - reduces the risk of unwanted contamination of the unit while the filters are being changed

Allows immersion disinfection - with input and output threads plugs on (Sodium hypochloride or Persteril).

LED display - LED display visualises airflow, filter clogging and battery charge.

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Compatible headtops		
71 01 00*	Short hood CA-1 orange	TH2
71 02 00*	Long hood CA-2 orange	TH2
71 02 00G	Long hood CA-2 chem. resistant grey	TH2
71 10 00*	Universal hood CA-10 orange	TH3
71 10 00G	Universal hood CA-10 chem. resistant grey	TH3
71 03 00	Grinding shield CA-3 (polycarbonate visor)	TH2
71 03 01	Grinding shield CA-3 (acetate visor)	TH2
71 04 01*	Safety helmet CA-4 orange face seal	TH2
71 04 03*	Safety helmet CA-4 additonal flip-up visor, earmuffs, orange face seal	TH2
70 40 01	Safety helmet CA-40 weld. shield, ADF V9-13 DS	TH2
70 41 00	Safety helmet CA-40G grinding shield	TH2
70 42 01	Safety helmet CA-40GW grinding + welding shield, ADF V9-13 DS	TH2
70 20 70	Welding hood CA-20 ADF V9-13 DS	TH3
70 20 81	Welding hood CA-20 ADF V6-8/9-13 GDS	TH3
70 29 01	Welding hood CA-29 Evolve ADF V9-13 DS	TH2
70 05 00	Half mask CA-5 Eurmask DIN	TM2
71 06 00	Full face mask GX02, size (S, M, L)	TM3
72 06 00	Full face mask CF02, size (M, L)	TM3

* for ordering blue face seal please add „B" at the end of the product code

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Compatible filters

Product code:	Product name	P-white	A-brown	AX-brown	B-grey	E-yellow	K-green	Hg-red	Ozone (10 ppm)	EN 14387	EN 143	EN 12941	EN 12942	EN 148-1 (RD40x1/7")	Note:
Combined filters, thread RD40*1/7"															
50 03 57	A1P3	✓	✓									✓	✓	✓	-
50 01 57	A2P3	✓	✓							✓		✓	✓	✓	-
50 01 62	B2P3	✓			✓				✓	✓		✓	✓	✓	-
50 01 60	K2P3	✓					✓		✓	✓		✓	✓	✓	-
50 01 67	A2B2P3	✓	✓		✓				✓	✓		✓	✓	✓	-
50 01 64	A2B2E2P3	✓	✓		✓	✓			✓	✓		✓	✓	✓	-
50 03 64	A1B1E1P3	✓	✓		✓	✓						✓	✓	✓	-
50 01 68	A2B2E2K2P3	✓	✓		✓	✓	✓		✓	✓		✓	✓	✓	-
50 01 65X	NBC - A2B2E2K2P3	✓	✓		✓	✓	✓			✓		✓	✓	✓	NBC filtr
50 01 66	A2B2E2K2HgP3	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	max. 50 hours
50 02 57	A2P - ZERO	✓	✓							✓		✓	✓	✓	two-thread filter
50 02 66	A2B2E2K2HgP - ZERO	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	two-thread filter
50 02 68	A2B2E2K2P - ZERO	✓	✓		✓	✓	✓		✓	✓		✓	✓	✓	two-thread filter
Particle filters, thread RD40*1/7"															
50 00 48	P3	✓									✓	✓	✓	✓	-
50 02 49	ZERO	✓									✓	✓	✓	✓	two-thread filter
50 40 48	P3 lite	✓									✓	✓	✓	✓	-
50 42 49	ZERO lite	✓									✓	✓	✓	✓	two-thread filter