

CleanAIR® Chemical 3F 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 3F Plus provides protection against particulates, but is also capable to provide protection against wide range of contaminants when used with combined filters.

The image is for illustrative purposes only. Appearance may vary.

DA-003 - 520000FCA - Chemical 3F Plus [EN]

TECHNICAL DATASHEET

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Powered air purifying respirator



Technical specification

Product code	520000FCA		
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 / 235		Light combined (class 1)
	160 / 185 / 210 / 235		Heavy combined (class 2)
Battery	Standard battery		
Voltage	14.52 V		
Capacity	3.2 Ah / 46.46 Wh		
Charging time	3 – 4 h		
Operation time*	approx. 8 h with filters A2B2E2K2P at 160 l/min		
Battery lifespan	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) Available plugs: EUR, UK and AUS		
Weight	1100 g (including standard battery)		
Dimensions	320 mm / 200 mm / 150 mm (with standard battery)		
Noisiness	< 62 dB		
Materials	Unit: high performance polyamide Belt: textile part - polyester/nylon/rubber foam plastic part - polyamide		
Motor	Ball-bearing brushless motor		
Input / Output (threads)	Filter thread - RD40x1/7" - 2x Airflow output thread - CA40x1/7" - 1x		
Belt - waist size:	Comfort padded belt - up to 1 500 mm		
Display	TFT display (262k colours, 160x160 px) (showing actual working mode, airflow, filter condition and battery status)		
Standard	EN 12941	EN 12942	
Protection class / NPF*	TH3 / 500	TM3 / 2000	
Storage conditions	– 10°C to + 55°C, humidity 20 - 95 % RH		
Operating conditions	0°C to + 60°C, humidity 20 - 95 % RH		

* depends on used headtop

Features

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

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

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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Product sets / variations

520000FCA	Powered air purifying respirator 3F, exchangeable battery, charger (EURO - plug), comfort padded belt, flow indicator
520000FDA	Powered air purifying respirator 3F, exchangeable battery, charger (EURO - plug), decontaminable belt, flow indicator

* Add U or AUS to the end of product code for ordering charger with UK or AUS plug

Spare parts and accessories

520010	Battery CA Chemical 3F, Li-Ion (14.52 V / 3.2 Ah / 46.46 Wh)
520012	Battery CA Chemical 3F for RDD, Li-Ion (14.52 V / 3.2 Ah / 46.46 Wh)
520043.1	Comfort padded belt
510041	Decontaminable belt
510042	Decontaminable harness
520044.1	Comfort padded harness
700060	Light flexi hose CA40x1/7" - CA40x1/7" - straight conn.
700086CA	Rubber hose CA40x1/7" - CA40x1/7" - straight connector
710062F	Hose cover flameproof
700062C	Hose cover chemical resistant
510030EUR	Charger Li-Ion 14,4 V - EURO
510030UK	Charger Li-Ion 14,4 V - UK
510030AUS	Charger Li-Ion 14,4 V - AUS
520046	Set of plugs (3x external thread, 1x internal thread) for decontamination of unit 3F
520101	TFT display protective foil

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Compatible headtops

720102B	Short protective hood CA-1, blue	TH3
720102	Short protective hood CA-1, orange	TH3
720112	Short protective hood CA-1+, orange	TH3
720112B	Short protective hood CA-1+, blue	TH3
720202B	Long protective hood CA-2, blue	TH3
720202	Long protective hood CA-2, orange	TH3
721002	Chem-proof protective hood CA-10	TH3
720300.01	Protective face shield UniMask, grey	TH3
720300.02	Protective face shield UniMask, blue	TH3
720300.03	Protective face shield UniMask, orange	TH3
720300.04	Protective face shield UniMask, red	TH3
720300.08	Protective face shield UniMask, neoprene	TH3
710401*	Safety helmet CA-4 orange face seal	TH2
710403*	Safety helmet CA-4 additional flip-up visor, earmuffs, orange face seal	TH2
704001	Safety helmet CA-40 weld. shield, ADF V9-13 DS	TH3
704100	Safety helmet CA-40G grinding shield	TH3
704201	Safety helmet CA-40GW grinding + welding shield, ADF V9-13 DS	TH3
700500	Half mask CA-5 Eurmask DIN	TM2
710600	Full face mask GX02, size [S, M, L]	TM3
720600	Full face mask CF02, size [M, L]	TM3

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

** for ordering variant with „Flexi“ seal, please add „F“ at the end of the 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"]
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Note:

Combined filters, thread RD40*1/7"

500357	A1P3	✓	✓							✓	✓	✓	-
500157	A2P3	✓	✓					✓		✓	✓	✓	-
500162	B2P3	✓		✓			✓	✓		✓	✓	✓	-
500160	K2P3	✓			✓		✓	✓		✓	✓	✓	-
500167	A2B2P3	✓	✓	✓			✓	✓		✓	✓	✓	-
500164	A2B2E2P3	✓	✓	✓	✓		✓	✓		✓	✓	✓	-
500364	A1B1E1P3	✓	✓	✓	✓					✓	✓	✓	-
500168	A2B2E2K2P3	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	-
500165X	NBC - A2B2E2K2P3	✓	✓	✓	✓	✓		✓		✓	✓	✓	NBC filtr
500166	A2B2E2K2HgP3	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	max. 50 hours
500257	A2P - ZERO	✓	✓					✓		✓	✓	✓	two-thread filter
500266	A2B2E2K2HgP - ZERO	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	two-thread filter
500268	A2B2E2K2P - ZERO	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	two-thread filter

Particle filters, thread RD40*1/7"

500048	P3	✓							✓	✓	✓	✓	-
500249	ZERO	✓							✓	✓	✓	✓	two-thread filter
504048	P3 lite	✓							✓	✓	✓	✓	-
504249	ZERO lite	✓							✓	✓	✓	✓	two-thread filter

Disclaimer Notice

All the information contained herein is believed to be accurate and is subject to change without notice. Users should independently evaluate the suitability of each product for their own applications. CleanAIR® products are not designed for, and may not be used in, all applications.