

## CleanAIR® Chemical 2F Ex

Powered air purifying respirator



### Description

The battery-powered air-purifying respirator (PAPR) device specially designed for potentially explosive atmospheres.

### Application

Chemical 2F Ex provides protection against particulates and a wide range of gas contaminants even in potentially explosive atmospheres.


# TECHNICAL DATASHEET

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### Technical specification

Product code	51E000		
Flow rate	Airflow [lpm]	Mode	Filter category
	160 / 185 / 210 / 235	Hood EN 12941	Particle
	160 / 185 / 210		Light combined [class 1]
	160		Heavy combined [class 2]
	160		Heavy combined [class 3]
Battery	Standard battery	Heavy Duty battery	
Voltage	14,4 V	14,4 V	
Capacity	3,2 Ah	4,9 Ah	
Charging time	< 3 hours	< 5 hours	
Operation time*	< 9 hours*	< 14 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] Available plugs: EUR, UK and AUS		
Weight	1 000 g [incl. standard battery, excl. filters]		
Dimensions	235 mm / 126 mm / 65 mm		
Noisiness	< 70 dB		
Materials	Unit: high performance polyamide Belt: PVC		
Motor	Ball-bearing brushless motor		
Input / Output [threads]	Filter thread - RD40x1/7" - 2x Airflow output thread - CA40x1/7" - 1x		
Belt	PVC belt		
Waist size:	up to 1 500 mm		
Standard	EN 12941		
Protection class / NPF**	TH3 / 500		
ATEX classification		II 3 G IIB T4 Gc II 3 D IIIC 135°C Dc	
Ingress protection	IP64:	When switched ON [without any further requirements]	
	IP65:	When switched ON [set of spark arresters and pre-filter holders - 50 01 12]	
	IP68:	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	- 10°C to + 55°C, humidity 20 - 95 % Rh		
Operating conditions	0°C to + 40°C, humidity 20 - 95 % Rh		

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

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### Product sets / variations

51E000FD Powered air purifying respirator CleanAIR® Chemical 2F Ex, QuickLOCK® light flexi hose, exchangeable battery, charger (EURO - plug), PVC belt, flow indicator

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

### 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 (RD40x17")	Note:
<b>Combined filters, thread RD40*1/7"</b>															
500357	A1P3	✓	✓									✓	✓	✓	-
500157	A2P3	✓	✓							✓		✓	✓	✓	-
500162	B2P3	✓			✓				✓	✓		✓	✓	✓	-
500160	K2P3	✓				✓			✓	✓		✓	✓	✓	-
500167	A2B2P3	✓	✓		✓				✓	✓		✓	✓	✓	-
500164	A2B2E2P3	✓	✓		✓	✓			✓	✓		✓	✓	✓	-
500557	A3AXP3	✓	✓	✓								✓	✓	✓	can be used only with HD battery
500364	A1B1E1P3	✓	✓		✓	✓						✓	✓	✓	-
500168	A2B2E2K2P3	✓	✓		✓	✓	✓		✓	✓		✓	✓	✓	-
500165X	NBC - A2B2E2K2P3	✓	✓		✓	✓	✓		✓	✓		✓	✓	✓	NBC filter
500166	A2B2E2K2HgP3	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	max. 50 hours
500257	A2P - ZERO	✓	✓							✓		✓	✓	✓	two-thread filter
500266	A2B2E2K2HgP - ZERO	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	two-thread filter
500268	A2B2E2K2P - ZERO	✓	✓		✓	✓	✓		✓	✓		✓	✓	✓	two-thread filter
500567	A3AXP ZERO	✓	✓	✓								✓	✓	✓	two-thread filter
<b>Particle filters, thread RD40*1/7"</b>															
500048	P3	✓										✓	✓	✓	-
500249	ZERO	✓										✓	✓	✓	two-thread filter
504048	P3 lite	✓										✓	✓	✓	-
504249	ZERO lite	✓										✓	✓	✓	two-thread filter

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### Compatible headtops

720101	Short hood CA-1 Lite	TH3
720201	Long hood CA-2 Lite	TH3
721002	Chem-proof protective hood CA-10	TH3
721002G	Chem-proof protective hood CA-10, grey	TH3
72030001	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
704100	Safety helmet CA-40 with grinding visor	TH3

### Spare parts and accessories

510010	Battery CA Chemical 2F, Li-Ion (14,4V / 3,2Ah)
510020	Battery CA Chemical 2F Heavy Duty, Li-Ion (14,4V / 4,9Ah)
510051	Decontaminable belt PVC - 2F/3F
510052	Decontaminable harness PVC - 2F
710060	Light flexi hose QuickLOCK™ - CA40x1/7"
710086	Rubber hose QuickLOCK™ - CA40x1/7"
510030EUR	Charger for CleanAIR® Chemical 2F (EURO - plug)
510030UK	Charger for CleanAIR® Chemical 2F (UK - plug)
510030AUS	Charger for CleanAIR® Chemical 2F (AUS - plug)
707051	Multicharger 2F - 5 slots, without power supply
707051P	Multicharger 2F -5 slots, incl. power supply and AC cords
510046	Set of plugs (2x external thread, 1x internal thread) for decontamination of unit 2F

\* To use the Chemical 2F Ex in a potentially explosive atmosphere, it is necessary that the user wears clothing that complies with EN 1149-1 or EN 61340-4-9.

### 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)

**Built-in barometric sensor** - automatic airflow compensation depending on altitude. Works from -500m up to 4500m.

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

**Battery locking screw** - disables the user to remove the battery by accident (screwdriver necessary)

**Antistatic materials** - belt and the unit are made of the materials which dissipate electrostatic charges

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