

# TECHNICAL DATASHEET



WWW.CLEAN-AIR.CZ

## CleanAIR® MedicAER® Ex

Powered air purifying respirator



### Description

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

### Application

MedicaER® Ex provides protection against particulates and a wide range of contaminants even in potentially explosive atmospheres.

For more information go to <http://www.medic-aer.com/>


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### Technical specification

Product code		51 EM 00FC	
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*	< 10 hour*		< 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	1000 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-bearing brushless motor		
Input / Output (threads)	Filter thread - RD40x1/7" - 2x Airflow output thread - CA40x1/7" - 1x		
Belt	Comfort padded belt Ex version		
Waist size:	up to 1 500 mm		
Standard	EN 12941		EN 12942
Protection class / NPF***	TH3 / 500		TM3 / 2000
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 + 60°C, humidity 20 - 95 % Rh		

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

#### 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.

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## **CleanAIR® MedicAER® Ex**

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### *Product sets / variations*

51 EM 00FC	Powered air purifying respirator CleanAIR® MedicAER Ex, QuickLOCK® light flexi hose, standard battery, charger (EURO - plug), comfort padded belt Ex-version and flow indicator
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\* Add U or AUS to the end of product code for ordering charger with UK or AUS plug

### *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)
71 EO 92	Comfort padded belt Ex version
51 00 51	Decontaminable belt PVC - 2F/3F
51 00 52	Decontaminable harness PVC - 2F
71 00 60	Light flexi hose QuickLOCK™ - CA40x1/7"
71 00 86	Rubber hose QuickLOCK™ - CA40x1/7"
51 00 30EUR	Charger for CleanAIR® Chemical 2F (EURO - plug)
51 00 30UK	Charger for CleanAIR® Chemical 2F (UK - plug)
51 00 30AUS	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
51 00 46	Set of plugs (2x external thread, 1x internal thread) for decontamination of unit 2F

### *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.

**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

### *Compatible headtops*

72 01 01	Short hood CA-1 Lite	TH3
72 02 01	Long hood CA-2 Lite	TH3
72 10 02	Chem-proof protective hood CA-10	TH3
72 10 02G	Chem-proof protective hood CA-10, grey	TH3
72 03 00.01	Protective face shield UniMask, grey	TH3
72 03 00.02	Protective face shield UniMask, blue	TH3
72 03 00.03	Protective face shield UniMask, orange	TH3
72 03 00.04	Protective face shield UniMask, red	TH3
72 03 00.08	Protective face shield UniMask, neoprene	TH3

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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 70	A3AXP3	✓	✓	✓								✓	✓		-
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 filter
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

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