

# TECHNICAL DATASHEET



WWW.CLEAN-AIR.CZ

## **CleanAIR® MedicAER®** 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.

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

### *Application*

In default MedicAER® 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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Powered air purifying respirator



### Technical specification

Product code		51 MO 00FC		
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		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		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:	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

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## **CleanAIR® MedicAER®**

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### *Product sets / variations*

51 MO 00FC	Powered air purifying respirator CleanAIR® MedicAER, QuickLOCK® light flexi hose, exchangeable battery, charger (EURO - plug), comfort padded belt and flow indicator
51 MO 00FD	Powered air purifying respirator CleanAIR® MedicAER, QuickLOCK® light flexi hose, exchangeable battery, charger (EURO - plug), decontaminable belt and flow indicator

### *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™ – CA40x1/7"
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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## **CleanAIR® MedicAER®** Powered air purifying respirator



### 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

### 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 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 additional flip-up visor, earmuffs, orange face seal	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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