

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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Technical specification

Product code		51M000FC		
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)
		120 / 140 / 160		Heavy combined (class 3)
		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		< 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) 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 - waist size:		Comfort padded belt - 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

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Product sets / variations

51M000FC	Powered air purifying respirator CleanAIR® MedicAER, QuickLOCK® light flexi hose, exchangeable battery, charger (EURO - plug), comfort padded belt and flow indicator
51M000FD	Powered air purifying respirator CleanAIR® MedicAER, QuickLOCK® light flexi hose, exchangeable battery, charger (EURO - plug), PVC belt and flow indicator

* 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)
710092	Comfort padded belt
720092	Comfort leather belt
510051	Decontaminable belt PVC - 2F/3F
510052	Decontaminable harness PVC - 2F
520044.1	Comfort padded harness
710060	Light flexi hose QuickLOCK™ - CA40x1/7"
710086	Rubber hose QuickLOCK™ – CA40x1/7"
710062F	Hose cover flameproof
700062C	Hose cover chemical resistant
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
520101	TFT display protective foil

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).

Stainless steel battery connectors - prolong lifetime if decontaminated frequently.

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

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

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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"															
500357	A1P3	✓	✓									✓	✓	✓	-
500157	A2P3	✓	✓						✓			✓	✓	✓	-
500162	B2P3	✓			✓				✓	✓		✓	✓	✓	-
500160	K2P3	✓					✓		✓	✓		✓	✓	✓	-
500167	A2B2P3	✓	✓		✓				✓	✓		✓	✓	✓	-
500164	A2B2E2P3	✓	✓		✓	✓			✓	✓		✓	✓	✓	-
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
500557	A3AXP R SL	✓	✓	✓								✓	✓		thread RD40x1/7"
500657	A3AXP ZERO	✓	✓	✓								✓	✓		two threads RD40x1/7"
Particle filters, thread RD40*1/7"															
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-1 Lite	TH3
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
721002G	Chem-proof protective hood CA-10, grey	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
710301	Grinding shield CA-3 (acetate visor)	TH2
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

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