

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.

* the picture is illustrational only and may vary depending on additional equipment

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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.

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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