

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.

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


TECHNICAL DATASHEET

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Technical specification

| | | | |
|--------------------------|---|---|--------------------------|
| Product code | 51 E0 00 | | |
| 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] |
| Battery | Standard battery | | |
| Voltage | 14,4 V | | |
| Capacity | 2,6 Ah | | |
| Charging time | < 3 hours | | |
| Operation time* | < 10 hour* | | |
| Battery lifespan | 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

51 E0 00FD 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: |
|---|--------------------|---------|---------|----------|--------|----------|---------|--------|----------------|----------|--------|----------|----------|---------------------|-------------------|
| 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 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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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 |
| 70 41 00 | Safety helmet CA-40 with grinding visor | TH3 |

Spare parts and accessories

| | |
|-------------|--|
| 51 00 10 | Battery Li-Ion 14,4 V / 2,6 Ah |
| 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) |
| 51 00 46 | 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)

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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