# TECHNICAL DATASHEET

## CleanAIR® Chemical 3F Plus
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.

### Application

In default Chemical 3F Plus 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 | 52 00 00FCA | | |
|---|---|---|---|
| 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 / 235 | | Light combined (class 1) |
| | 160 / 185 / 210 / 235 | | Heavy combined (class 2) |
| Battery<br>   Voltage<br>   Capacity<br>   Charging time<br>   Operation time*<br>   Battery lifespan | Standard battery<br>14,4 V<br>2,6 Ah<br>< 3 hours<br>< 10 hour*<br>up to 500 charging cycles | | |
| Battery charger | Microprocessor controlled, fully automatic<br>Input: 100 - 240 V (50/60 Hz)<br>Output: 18 V (max. 1 500 mA)<br>Available plugs: EUR, UK and AUS | | |
| Weight | 1 100 g (including standard battery) | | |
| Dimensions | 320 mm / 200 mm / 150 mm (with standard battery) | | |
| Noisiness | < 62 dB | | |
| Materials | Unit: high performance polyamide<br>Belt: textile part - polyester/nylon/rubber foam<br>      plastic part - polyamide | | |
| Motor | Ball-beared brushless motor | | |
| Input / Output (threads) | Filter thread - RD40x1/7" - 2x<br>Airflow output thread - CA40x1/7" - 1x | | |
| Belt - waist size: | Comfort padded belt - up to 1 500 mm | | |
| Display | TFT display (262k colours, 160x160 px)<br>(showing actual working mode, airflow, filter condition and battery status) | | |
| Standard<br>   Protection class / NPF*** | EN 12941<br>TH3 / 500 | EN 12942<br>TM3 / 2000 | |
| Storage conditions<br>Operating conditions | – 10°C to + 55°C, humidity 20 - 95 % Rh<br>  0°C to + 60°C, humidity 20 - 95 % Rh | | |

\* with new P3 filters and fully charged battery / \*\* depends on used headtop
\*\* with input and output threads closed with CleanAIR® plugs (product code: 51 00 46)

## *Features*

**Warning system** - visual, audible and vibrating 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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## Product sets / variations

| 52 00 00FCA | Powered air purifying respirator 3F, exchangeable battery, charger (EURO - plug), comfort padded belt, flow indicator |
|---|---|
| 52 00 00FDA | Powered air purifying respirator 3F, exchangeable battery, charger (EURO - plug), decontaminable belt, flow indicator |

\* Add U or AUS to the end of product code for ordering charger with UK or AUS plug

## Spare parts and accessories

| 52 00 10 | Battery Li-Ion 14,4 V / 2,6 Ah |
|---|---|
| 52 00 43.1 | Comfort padded belt |
| 51 00 41 | Decontaminable belt |
| 51 00 42 | Decontaminable harness |
| 52 00 44.1 | Comfort padded harness |
| 70 00 60 | Light flexi hose CA40x1/7"- CA40x1/7" - straight conn. |
| 70 00 86CA | Rubber hose CA40x1/7"- CA40x1/7" - straight connector |
| 71 00 62F | Hose cover flameproof |
| 70 00 62C | Hose cover chemical resistant |
| 51 00 30EUR | Charger Li-Ion 14,4 V - EURO |
| 51 00 30UK | Charger Li-Ion 14,4 V - UK |
| 51 00 30AUS | Charger Li-Ion 14,4 V - AUS |
| 52 00 46 | Set of plugs (3x external thread, 1x internal thread) for decontamination of unit 3F |
| 52 01 01 | TFT display protective foil |

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| Compatible headtops | | |
|---|---|---|
| 72 01 02B | Short protective hood CA-1, blue | TH3 |
| 72 01 02 | Short protective hood CA-1, orange | TH3 |
| 72 01 12 | Short protective hood CA-1+, orange | TH3 |
| 72 01 12B | Short protective hood CA-1+, blue | TH3 |
| 72 02 02B | Long protective hood CA-2, blue | TH3 |
| 72 02 02 | Long protective hood CA-2, orange | TH3 |
| 72 10 02 | Chem-proof protective hood CA-10 | 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 |
| 71 03 00 | Grinding shield CA-3 (polycarbonate visor) | TH2 |
| 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 additonal flip-up visor, earmuffs, orange face seal | TH2 |
| 70 40 01 | Safety helmet CA-40 weld. shield, ADF V9-13 DS | TH3 |
| 70 41 00 | Safety helmet CA-40G grinding shield | TH3 |
| 70 42 01 | Safety helmet CA-40GW grinding + welding shield, ADF V9-13 DS | TH3 |
| 70 20 70 | Welding hood CA-20 ADF V9-13 DS | TH3 |
| 70 20 81 | Welding hood CA-20 ADF V6-8/9-13 GDS | TH3 |
| 70 29 01 | Welding hood CA-29 Evolve ADF V9-13 DS | 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
** for ordering variant with „Flexi" seal, please add „F" at the end of the code

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# CleanAIR® Chemical 3F Plus
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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 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 |