

TECHNICAL DATASHEET



CleanAIR® Chemical 2F „Garment“

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 2F „Garment“ provides protection against particulates, but is also capable to provide protection against wide range of contaminants when used with combined filters.



Techware Pty Ltd
ABN: 13 914 775 899
Phone: 1300 062 947
Email: sales@maxsafe.com.au
Website: www.maxsafe.com.au

Techware Pty Ltd
PO Box 4220
Hoppers Crossing
VIC 3029
Australia

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

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Technical specification

Product code		MIC51 00 00FC		
Flow rate		Airflow [lpm]	Mode	Filter category
		120 / 140 / 160 / 185 / 210 / 235	Garment EN 12941	Particle
		120 / 140 / 160 / 185 / 210		Light combined (class 1)
		120 / 140		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) Available plugs: EUR, UK and AUS		
Weight		1 000 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-bearred 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

Disclaimer Notice

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Product sets / variations

MIC51 00 00FC*	Powered air purifying respirator CA Chemical 2F with activated „Garment“ profile, exchangeable battery, charger (EURO - plug), air hose, comfort padded belt, flow indicator and locking nut
MIC51 00 00FCH*	Powered air purifying respirator CA Chemical 2F with activated „Garment“ profile, exchangeable battery, charger (EURO - plug), air hose, comfort harness, flow indicator and locking nut
MIC51 00 00FD*	Powered air purifying respirator CA Chemical 2F with activated „Garment“ profile, exchangeable battery, charger (EURO - plug), air hose, decontaminable belt, flow indicator and locking nut
MIC51 00 00FDH*	Powered air purifying respirator CA Chemical 2F with activated „Garment“ profile, exchangeable battery, charger (EURO - plug), air hose, decontaminable harness, flow indicator and locking nut

* for ordering variation with UK plug please add „U“ at the end of the product code; for AUS plug please add „-AUS“ at the end of the product code

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 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
51 00 46	Set of plugs (2x external thread, 1x internal thread) for decontamination of unit 2F
52 01 01	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).

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"															
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

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