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3M™ Cool Flow™ Fan 1040 Series for use with the 3M™ 4000+ Series Reusable Half Face Masks

Technical datasheet

Product description

3M™ Cool Flow™ Fan 1040 Series is designed to be used with the 3M™ 4000+ Series Reusable Half Face Masks which are a range of ready-to-use, maintenance-free half face masks. It is designed to reduce heat and moisture build up inside the mask to aid wearer comfort. It includes a rechargeable battery and can be recharged with the included USB charger.

Key features

- ▶ Rechargeable
- ▶ 3 levels of operation, to help the wearers choose a level that is appropriate for their needs
- ▶ Single button operation, easy to use

Product range and intended use

1. See 3M™ 4000 Series Maintenance Free Reusable Respirator user instructions for list of use limitations for the respirator.
2. Never modify or alter this product.
3. Only use chargers supplied with the unit. (Egston BI12T-050100-BdV)/(Egston BI12T-050100-BdB)/CUI SWI5-5-B-I38-Cx)/(CUI SWI5-5-E-I38-Cx).
4. Do not use standard version 3M™ Cool Flow™ Fan in potentially explosive environments.
5. Do not switch on 3M™ Cool Flow™ Fan before you have donned the respirator with 3M™ Cool Flow™ Fan attached.
6. When the 3M™ Cool Flow™ Fan is used with 3M™ 4000+ Series, the respirator continues to exceed the gas capacity requirements of EN 405. When tested at the flows stated in EN 405, however, the service life of the respirator with organic vapour filters may reduce by up to 20%. The service life of the respirator with inorganic vapour, acid gas and ammonia filter may reduce by up to 33%. Please take this into account when considering your change out schedule.



7. The 3M™ Cool Flow™ should not be used in the following conditions:
 - a. In atmospheres containing less than 19.5% oxygen
 - b. Confined spaces (lack of ventilation)
 - c. When the risk is Immediately Dangerous for Life or Health (IDLH)
 - d. Where the contaminant concentration is above the protection limit defined for 4000+ user instructions

For full use limitations please refer to the product user instructions.

Technical specifications:

Standards and approvals

3M™ 1040 standard version, is approved as an accessory to the 3M™ Respirator, 4000+ Series. They also comply with the European EMC Directive 2014/30/EU.

Battery charge time

4 hours

Charging temperature

+15°C to +40°C

Storage conditions

-10°C to +20°C and less than 80% relative humidity.

Operating temperatures

-10°C to +40°C.

Shelf life

When stored as stated, the expected shelf life of the product is 1 year from date of manufacture. The 'in-use' life of the product will vary with frequency and conditions of use. In everyday use, the expected 'in-use' life is 1-2 years.

*The shelf life as defined above remains an indicative and, subject to many external and non-controllable factors. It may never be interpreted as a warranty.

Materials

Component	Material
Scroll front assembly	Acrylonitrile butadiene styrene (ABS)
Scroll rear and battery housing	Acrylonitrile butadiene styrene (ABS)
Gasket	Thermoplastic elastomers (TPE)
Button and USB over mould	Thermoplastic elastomers (TPE)
Button frame	Acrylonitrile butadiene styrene (ABS)
Cover	Acrylonitrile butadiene styrene (ABS)
Impeller	Polyphenylene Ether (PPE) and Polystyrene
Motor assembly	Mixed
Battery	Lithium-ion chemistry

Materials from animal origin are not intentionally added to these products.

Important notice

The use of the 3M product described within this document assumes that the user has previous experience of this type of product and that it will be used by a competent professional. Before any use of this product it is recommended to complete some trials to validate the performance of the product within its expected application.

All information and specification details contained within this document are inherent to this specific 3M product and would not be applied to other products or environment. Any action or usage of this product made in violation of this document is at the risk of the user.

Compliance to the information and specification relative to the 3M product contained within this document does not exempt the user from compliance with additional guidelines (safety rules, procedures). Compliance to operational requirements especially in respect to the environment and usage of tools with this product must be observed. The 3M group (which cannot verify or control those elements) would not be held responsible for the consequences of any violation of these rules which remain external to its decision and control.

Warranty conditions for 3M products are determined with the sales contract documents and with the mandatory and applicable clause, excluding any other warranty or compensation.

Respiratory Protection is only effective if it is correctly selected, fitted and worn throughout the time when the wearer is exposed to respiratory contaminants. 3M offers advice on the selection of products, and training in the correct fitting and usage.

For more information on 3M products and services please contact 3M.

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Charge status indicator lights

Colour and light appearance	Status	Action required
Green/orange (alternating flashes)	Battery charging	
Green (continuous)	Battery fully charged	Remove charger
Green (fast flashes)	Start button pressed or fan stopping	
Green (slow flashes)	Normal operation, fan running	
Red (occasional flashes)	Approx. 5% charge remaining	Recharge required to avoid fan shutdown

Care schedule

What	When
General inspection	Before use
Battery charging	Daily, or before use if not used daily, or at least every month if not used regularly
Cleaning	When necessary
Replace 3M™ 4000+	As per user change schedule

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