



3M™ Powerflow™ 7900PF Face-Mounted Powered Air Respirator System

Main Features

The 3M™ Powerflow™ 7900PF is a face-mounted Powered air respirator system. It combines the 3M™ 7900PF Full-face mask with the 3M™ Powerflow™ Powered Air Turbo to form a power-assisted system offering respiratory protection and solid and liquid particles.

- 5 hour rechargeable battery.
- Li-ion batteries provide longer duration with less weight.
- Particulate filter meeting the highest standard performance level available.
- Improved mask with greater comfort and adjustability.
- Can be worn in decontamination shower using the decontamination kit (included).
- Optional Prefilter to extend the life of the main filter.

Approvals

The 3M™ Powerflow™ 7900PF face-mounted powered air respirator system meets the Basic Safety Requirements under Articles 10 and 11B of the EC Directive 89/686/EEC and thus carries the CE mark.

The product was examined at the design stage by BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes, MK5 8PP, UK (Notified Body number 0086).

The product also complies with the European Electromagnetic Compatibility (EMC) Directive 2004/108/EC.

Standards

The 3M™ Powerflow™ 7900PF system has been tested and approved to EN12942:1998+A2:2008 as a Class TM3 device offering protection against solid and liquid particles.

The 3M™ Powerflow™ 7900PF system has also been tested for Dust protection and protection against splashing in accordance with EN60529 code 54.



Applications

The 3M™ Powerflow™ 7900PF system provides protection against Particulates, e.g. fine dusts, mists and metal fumes.

The 3M™ Powerflow™ 7900PF system can be used in various applications including:

- Asbestos Removal
- Grain Handling
- Lead oxide removal
- Construction
- Demolition
- Agriculture
- Nuclear Industry

Use Limitations

The 3M™ Powerflow™ 7900PF respirator system should not be used in the following conditions:

- Oxygen deficient atmospheres
- Confined spaces, i.e. spaces with poor ventilation
- Where the hazard is regarded as Immediately dangerous to Life or Health (IDLH)
- Where the contaminant concentration is above the Occupational Exposure Limit

Materials

Part	Material
Facemask	Silicone
Facemask visor	Polycarbonate
Turbo Body	Polypropylene/Polyamide
Belt	Polyurethane
Filter Casing	Polyphenylene Oxide
Battery Casing	ABS
Decontamination Cover	Rubber
Airflow Indicator	Polycarbonate

Technical Data

Respiratory Protection

EN12942 Class TM3

Nominal Protection Factor = 2000

Assigned Protection Factor = see national guidelines

Outlet Flow Characteristics

Manufacturers Minimum Design Flow = 160 l/min

Battery Pack

5 hour Li-ion Battery: 8.4V Li-ion rechargeable

Eye Protection

Limited Clauses of EN166:2001

Meets optical class 2 and the performance requirements for protection against high speed particles, medium energy impact.

Ingress Protection code (IP)

IP54 as specified in EN60529

5X = Dust Protection

X4 = Splashing Water

Operating Temperature

-5°C to +40°C and <90% humidity

Weight

Face piece: 570g

Turbo, Filter and Power cable: 270g

Battery Pack: 390g

Spare Parts and Accessories

Part No.	Description
3M™ 7900PF	Full Facepiece
PFT-01	Powerflow Turbo Unit
BAT-25	5 hour battery
450-00-02P	Particulate filters
7893	Head strap and Harness
7927	Replacement visor
7991	Nose Cup assembly
031-35-00P	Decontamination Belt
VLV-05	Valve replacement kit
CHG-03	Intelligent battery charger
461-00-20P	Pre-filters and holders
461-00-02P	Pre-filter pads
7895	Speech Diaphragm kit
7883	Neck Strap
7989	Green Head harness button
7992	Visor Covers
7925	Spectacle kit
031-04-02P	Air flow indicator tube
024-04-02P	Decontamination kit



Occupational Health & Safety Division EMEA Region

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