



3M™ Adflo™ Powered Air Respirator

Product Description

- NPF of up to 500 (TH3)
- Can be used specifically for high efficient particle filtration (only) or for the filtration of both particulates and gases, depending on filter selection
- Cannot be used to protect against substances with poor warning properties (taste/ smell)
- Provides constant nominal airflow rate of either 170 lpm or 200 lpm (based on user settings)
- The 3M Adflo Powered Air Respirator version for high altitudes is designed for use above sea level 0-3000 m (1500 m with gasfilter) and has intergrated automatic altitude compensation to adjust for changes in air density.
- The respirator's slim turbo design allows highly mobile use
- Particle filter indicator
- Battery indicator
- Robust solution

Applications

3M™ Adflo™ Powered Air Respirator is a breathing protection device, for increased comfort and safety during welding and allied processes when used as a system in combination with approved head tops (see reference table).

Approvals

The PPE is CE marked and in conformity with the European PPE Regulation, directives and harmonized European Standards as listed in fig below, which also contain information about the Notified Body that have issued the EU type-Examination certificate for the PPE (Module B) and when applicable, the Notified Body responsible for the surveillance of the quality system of the manufacturing of the PPE (Module D). The EU type-examination Certificates and Declaration of Conformity are available at www.3M.com/welding/certs.

European Standard	Name
EN 12941:1998 A1:2003 + A2:2008	Respiratory protective devices – Powered filtering devices incorporating a helmet or hood
European Directive/Regulation	Name
(EU) 2016/425	PPE Regulation - Personal Protective Equipment
2014/30/EU	EMC Directive - Electromagnetic Compatibility
2011/65/EU	RoHS Directive - Restriction of the use of Hazardous Substances
Notified Body No.2797 Module B, Module D	BSI Group, The Netherlands B.V. Say Building, John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands
Australian/New Zealand Standard	Name
AS/NZS 1716:2012	Respiratory protective devices
Manufacturer	3M Svenska AB, Ernst Högströms väg 35, 785 30 Gäddede, Sweden

Equipment marking



= Read the instructions before use.



= Shall be disposed of as electronic waste.



= Recycle



= High altitude

Serial no

= Year, week of manufacturing

Limitations of use

- Only use with original 3M spare parts and accessories listed in the reference leaflet and within the usage conditions given in the Technical Specification
- The use of substitute components, decals, paint or other modifications not specified in these user instructions might seriously impair protection and may invalidate claims under the warranty or cause the product to be noncompliant with protection classifications and approvals.
- 3M Adflo Powered Air Respirator must not be used in the power OFF state since a rapid build-up of carbon dioxide and depletion of oxygen within the head top may occur.
- Do not remove the headtop or turn off 3M Adflo Powered Air Respirator until you have vacated the contaminated area. In the power OFF state little or no respiratory protection is expected
- Do not use for respiratory protection against unknown atmospheric contaminants or when concentrations of contaminants are unknown or immediately dangerous to life or health (IDLH).
- 3M™ Adflo™ Powered Air Respiratory System must not be used if 3M Adflo Powered Air Respirator does not supply enough air (low flow alarm).
- 3M Adflo Powered Air Respiratory System must not be used in flammable or explosive environments.
- Note that the breathing tube might make a loop and get caught up by something in the surrounding area.
- If you are not sure about the concentration of contaminant, or about equipment performance, seek advice from an industrial safety engineer. The manufacturer is not responsible for injury following incorrect use or incorrect choice of equipment.

Technical specifications

Respiratory protection class See reference leaflet

Manufacturer's minimum

design flow rate 160 l/min

Nominal airflow app. 170 l/min

Airflow Plus app. 200 l/min

Belt size 75-127 cm

Operating conditions: -5°C to +55°C, RH ≤ 90%, noncondensing conditions

Storage conditions: -20°C to +55°C, RH ≤ 90%, non-condensing conditions

Extended period of storage: -20°C to +35°C, RH ≤ 90%, non-condensing conditions.

Batteries need regular recharging during storage for extended periods.

Weight, 3M Adflo Powered

Air Respirator

(incl. P-filter, excl battery) 690 g

Expected service life: 5 years depending on conditions of use

Spare parts, accessories and consumables

53 35 05 Adapter for non-QRS breathing tubes when using Speedglas 9100 Series welding shields

50 35 06 Adapter for QRS breathing tubes when using Speedglas 9000 Series welding shields

79 01 01 Product carry bag

83 31 01 Battery charger NiMH

83 31 11 Battery charger Li-ion

83 32 06 6-station battery charger NiMH

83 40 09 Breathing tube with silencer (118 cm), with QRS connection

83 40 16 Breathing tube, self-adjusting (52,5 to 85 cm), with QRS connection

83 40 17 Breathing tube, heavy-duty rubber with (77±5 cm), QRS connection

83 40 18 Flame resistant breathing tube cover

83 40 19 Breathing tube, self-adjusting (60 to 118 cm), with QRS connection

83 45 00 Gasket for non-QRS breathing tubes

83 50 00 Belt

83 50 05 Front part, belt

83 50 10 Quick connection for belt

83 50 20 Braces

83 60 00 Spark arrestor

83 60 10

83 60 80

83 70 00

83 70 10

83 70 20

83 70 80

83 71 10

83 71 20

83 72 42

83 73 00

83 75 42

83 76 20

83 76 21

83 76 30

83 76 31

83 80 20

83 80 31

Prefilter, pkg of 5

Prefilter , pkg of 80

Storage bag

Particle filter P SL

Particle filter P SL, pkg of 20

Particle filter P SL, pkg of 80

Odour filter

Odour filter pad

Gas filter A1B1E1

Gas filter kit: A1B1E1 filter and Heavy-Duty battery

Gas filter A2

Battery (standard) NiMH

Battery Heavy-Duty NiMH

Battery (standard) Li-ion

Battery Heavy-Duty Li-ion

Airflow indicator

Filter cover

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.