



EC Type-Examination Certificate

No. CE 557351

The certificate is granted to:

**3M United Kingdom Plc
3M Centre
Bracknell
Berkshire
RG12 8HT
United Kingdom**

In respect of:

**Respiratory protective devices to EN 12941:1998+A2:2008
Powered filtering devices incorporating a helmet
Models: Range based on the 3M™ Versaflo™ M-306/M-307 Helmets.**

On the basis of our examination, under the requirements of Council Directive 89/686/EEC "Personal Protective Equipment" Article 10, EC Type-Examination.

For and on behalf of BSI:

Gary Fenton, Global Assurance Director

First Issued: **22/09/2010**

Latest Issue: **24/02/2012**

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Page 1 of 6



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Product Details:

Product name:	Headtop based Powered Air Respiratory Protective Systems.		
Product type:	Powered air filtering devices incorporating a helmet.		
Models:	3M™ Versaflo™ M-306/M-307 Helmet - 3M™ Dustmaster™ systems (standard industrial products). 3M™ Versaflo™ M-306/M-307 Helmet - 3M™ Jupiter™ systems (standard industrial products). 3M™ Versaflo™ M-306/M-307 Helmet - 3M™ Versaflo™ TR-302E systems (standard industrial products).		
Technical Specification:	Harmonized European Standard EN 12941:1998+A2:2008.		
EN 12941 classifications:	3M™ Dustmaster™ systems:	TH1.	
	3M™ Jupiter™ systems:	TH2.	
	3M™ Versaflo™ TR-302E systems:	TH3.	

The product assessments for the respiratory protection were based on BS EN 12941:1998+A2:2008, the English language version of EN 12941:1998+A2:2008, respiratory protective devices - powered filtering devices incorporating a helmet or hood.

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Page 2 of 6

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No. CE 557351

Components of the systems:

The major components of each system are a 3M Versaflo M-306/M-307 Headtop with a 3M Breathing Tube and a 3M Powered Air Turbo complete with Battery and Filter(s). The Headtop is an industrial safety helmet based unit with a lift-up visor/face seal section incorporating either a 3M clear coated or clear uncoated visor. The 3M M-306 and 3M M-307 are identical except for the interchangeable Comfort and Flame Retardant Faceseals.

The basic information on components of the systems are detailed in the table below, specific details are included in the appropriate 3M Reference Leaflet incorporated in the relevant Technical File referenced on page 6.

COMPONENT	DUSTMASTER BASED SYSTEMS	JUPITER BASED SYSTEMS	TR-302E BASED SYSTEMS
Powered Air Turbo	Dustmaster, complete with belt.	Jupiter, complete with belt.	TR-302E, complete with belt or backpack.
Breathing Tube	BT-20S/L, BT-30 & BT-40	BT-20S/L, BT-30 & BT-40	BT-20S/L, BT-30 & BT-40
Battery	Dustmaster range	4 hour battery 4 hour IS battery 8 Hour battery	3 cell (economy) 6 cell (high capacity)
Filter	Dustmaster range	Jupiter Industrial range	TR-302E range
Polycarbonate Visor	M-925 - uncoated M-927 - coated	M-925 - uncoated M-927 - coated	M-925 - uncoated M-927 - coated

The 3M Jupiter Powered Air Turbo has the option of being configured as an Intrinsically Safe unit, see details on page 5. For this configuration the Breathing Tubes BT-20S/L or BT-30 must be used.



No. CE 557351

Head protection incorporated within the systems:

In addition to the respiratory protection provided by the systems head protection is also provided.

Technical specification: Harmonized European Standard EN 397:1995.

EN 397 classifications:	440V ac - electrical insulation properties. LD - Lateral deformation.
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The product assessments for the head protection were based on BS EN 397:1995, the English language version of EN 397:1995 - industrial safety helmets, both documents incorporating Amendment No. 1.

Eye protection incorporated within the systems:

In addition to the respiratory protection provided by the systems eye and face protection is also provided.

Technical specification: Harmonized European Standard EN 166:2001.

EN 166 classifications:

M-925 Visor (uncoated)	M-927 Visor (coated)
1 – optical class	1 – optical class
BT – medium energy impact at extremes of temperature	BT – medium energy impact at extremes of temperature
9 – molten metal splash.	

The product assessments for the eye protection were based on BS EN 166:2002, the English language version of EN 166:2001 - personal eye protection.



No. CE 557351

Additional independently assessed characteristics of system components:

3M Jupiter unit 085-00-10P

The Jupiter unit satisfies the following requirements:-

BS EN 60529:1992 - Degrees of protection provided by enclosures (IP code).

Dust Protected IP5X.

Protected against Spraying Water IPX3.

The Jupiter unit when fitted with the Intrinsically Safe Kit consisting of an I.S. Battery and an I.S. Pouch satisfies the following requirements:-

BS EN 60529:1992 - Degrees of protection provided by enclosures (IP code).

Dust Tight IP6X.

and

BS EN 60079-0:2006- Electrical apparatus for explosive gas atmospheres. General requirements.

BS EN 60079-11:2007 - Explosive atmospheres. Equipment protection by intrinsic safety "i".

BS EN 61241-1:2004 - Electrical apparatus for use in the presence of combustible dust. Protection by enclosures "tD".

Certification code and marking:

Ex ib IIB T3 Gb

Ex tb IIIC T55°C Db

Ta=-20°C to +40°C

II 2GD.

The Jupiter unit also complies with the requirements of the Electromagnetic Compatibility Directive 2004/108/EC. ®

3M Versaflo TR-302E unit

The Versaflo TR-302E unit satisfies the following requirements:-

BS EN 60529:1992 Degrees of protection provided by enclosures (IP code).

Dust Protected IP5X.

Protected against Spraying Water IPX3.

The Versaflo TR-302E unit also complies with the requirements of the Electromagnetic Compatibility Directive 2004/108/EC.



No. CE 557351

Packaged variants

In addition to the products referenced on this Certificate the standard industrial products may also be sold as market specific packaged variants. To address this the applicable Technical File(s) will be updated with the appropriate information.

Kits and packouts

The products referenced on this Certificate may also be combined with other 3M products into a kit or packout. There will be no change to the product but the user information may vary, in such instances the applicable Technical File(s) will be updated with the appropriate information.

Certificate Administration Details:

Technical File References:

System component	Technical File
3M Versaflo M-306/M-307 Helmet	TF0214
3M BT-20S/BT-20L, BT-30 & BT-40 Breathing Tubes	TF0137
3M Dustmaster Powered Air Turbo	RMG 0174/11/2000
3M Jupiter Filters	TF0200
3M Jupiter Powered Air Turbo	TF0210
3M VersafloTR-302E Powered Air Turbo & Filters	TF0211

Certificate Amendment Record and internal BSI report related to this Certificate:

Issue date	Comments	BSI Report No.
22 September 2010	First issue, model 3M Versaflo M-306/M-307 helmet with Versaflo TR-302E and Jupiter Powered Air Turbo systems.	0086:7461144
Latest Issue	Addition of Dustmaster Powered Air Turbo and associated items, addition of M-925 visor and change of classification of M-927 visor.	0086:7795555

Certificate validity

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall processes utilised in the manufacture of the product, failure to do so could invalidate the Certificate in respect of product manufactured following the introduction of such changes.

The validity of the Certificate is also dependent on the maintenance of the EC quality of production by monitoring system, PPE Article 11B, as referenced on BSI Certificate 67902.

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Page 6 of 6

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