



EC Type-Examination Certificate

No. CE 565965

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 14594:2005
Continuous flow compressed airline breathing apparatus
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: **14/12/2010**

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

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Product Details:

Product name: Headtop based Supplied Air Respiratory Protective Systems.

Product type: Continuous flow compressed air breathing apparatus incorporating a helmet.

Models: 3M™ Versaflo™ M-306/M-307 Helmet - 3M™ Versaflo™ V-100E systems (standard industrial products).
3M™ Versaflo™ M-306/M-307 Helmet - 3M™ Versaflo™ V-200E systems (standard industrial products).
3M™ Versaflo™ M-306/M-307 Helmet - 3M™ Versaflo™ V-500E systems (standard industrial products).

Technical Specification: Harmonized European Standard EN 14594:2005.

EN 14594 classification: 3B.

The product assessments for the respiratory protection were based on BS EN 14594:2005, the English language version of EN 14594:2005, respiratory protective devices - continuous flow compressed air line breathing apparatus.



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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 Belt Mounted Regulator/Airflow Control Unit, Cooling Unit or Heating Unit. 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 5.

COMPONENT	VERSAFLO V-SERIES BASED SYSTEMS
Cooling Unit	V-100E, complete with comfort pad and belt
Heating Unit	V-200E, complete with comfort pad and belt
Regulator/Airflow Control Unit	V-500E, complete with belt
Breathing Tube	BT-20S/L, BT-30 & BT-40
Polycarbonate Visor	M-925 - uncoated, M-927 - coated

Non-respiratory protective characteristics common to the systems:

Head protection:

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 classification:	440V ac - electrical insulation properties.
	LD - Lateral deformation.

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.



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Eye and face protection:

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 BT – medium energy impact at extremes of temperature 9 – molten metal splash	1 – optical class BT – medium energy impact at extremes of temperature

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.

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.

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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 Versaflo V-500E Regulator/Airflow Control Unit	TF0212
3M Versaflo V-100E Cooling Unit	TF0229
3M Versaflo V-200E Heating Unit	TF0230

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

Issue date	Comments	BSI Report No.
14 December 2010	First issue, systems with a 3M Versaflo M-306/M-307 helmet and a 3M Versaflo V-500E Regulator/Airflow Control Unit.	0086:7570738
June 2011	Addition of systems with the 3M Versaflo V-100E Cooling Unit and the V-200E Heating Unit.	0086:7686834
Latest Issue	Addition of M-925 visor and change of classification of M-927 visor.	0086:7795561

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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