

EU Type Examination Certificate

This is to certify that:

3M United Kingdom Plc
3M Centre
Cain Road
Bracknell
RG12 8HT
United Kingdom

Holds Certificate Number:

CE 682154

In respect of:

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

on the basis that BSI carried out the relevant Type Examination procedures under the requirements with the Regulation (EU) 2016/425 of the European Parliament and Council relating to Personal Protective Equipment Regulation (PPE) Annex V (Module B) and meets the relevant health and safety requirements specified in Annex II

For and on behalf of BSI, a Notified
Body for the above Regulation
(Notified Body Number 2797):



Denelise L'Ecluse, Managing Director Assurance - Continental
Europe

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Product Specification

Product Name:	Headtop based Powered Air Respiratory Protective Systems		
Product Type:	Powered air filtering devices incorporating a Helmet/Visor combination to additionally provide head, eye and face protection		
Models: (standard industrial products)	3M™ Versaflo™ M-306/M-307 Helmet - TR-302E+ systems 3M™ Versaflo™ M-306/M-307 Helmet - TR-602E systems 3M™ Versaflo™ M-306/M-307 Helmet - TR-802E systems 3M™ Versaflo™ M-306/M-307 Helmet - TR-602E-CX systems		
Technical Specification:	Harmonized European Standard EN 12941:1998+A2:2008 Harmonized European Standard EN 397:2012+A1:2012 Harmonized European Standard EN 166:2001		
EN 12941 classifications:	TR-302E+ systems:	TH3	
	TR-602E systems:	TH3	
	TR-802E systems:	TH3	
	TR-602E-CX systems:	TH3	
EN 397 classifications:	Non Mandatory EN 397 Attributes	Marking Symbol	
	Electrical properties	440 V a.c.	
	Lateral deformation.	LD	
EN 166 classifications:	Visor/ Surround	EN 166 Attribute	Marking symbol
	M-925 Visor (uncoated)	Optical class	1
		Protection against high speed particles, medium energy impact at extremes of temperature	BT
		Protection against molten metal and hot solids	9
	M-927 Visor (coated)	Optical class	1
		Protection against high speed particles, medium energy impact at extremes of temperature	BT
	M-920 Surround	Protection against high speed particles, medium energy impact at extremes of temperature	BT
		Protection against droplets and splashes of liquids	3
		Protection against molten metal and hot solids	9

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Product Assessments

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.

The product assessments for the head protection were based on BS EN 397:2012+A1:2012, the English language version of EN 397:2012+A1:2012, industrial safety helmets.

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

Additional independently Certified characteristics of the systems

Intrinsic Safety (IS)

TR-802E Powered Air Turbo

The TR-802E Powered Air Turbo Unit is an Intrinsically Safe (IS) Unit, consisting of the Turbo Unit and IS Battery Pack.

This configuration has been assessed by UL International Demko A/S and is referenced on ATEX Certificate Number Demko 17 ATEX 1911, assessed as follows:

EN 60079-11:2012, Explosive atmospheres. Equipment protection by intrinsic safety "i".

Certification code and marking

I M1 Ex ia I Ma

II 1 G Ex ia IIB T4 Ga

II 1 D Ex ia IIIC 135°C Da

-20°C ≤ Ta ≤ +55°C

Note: When assembled for an Intrinsically Safe configuration a BT-20S, BT-20L, BT-30 or BT-40 Breathing Tube may be used.

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Dust and Water Ingress Protection

In Use Configuration

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

Powered Air Turbo Unit	Protection Code Description	Code
TR-302E+	Dust protected	IP5X
	Protected against spraying water	IPX3
TR-602E and TR-602E-CX	Dust protected	IP5X
	Protected against spraying water in all directions	IPX4
TR-802E	Dust protected	IP5X
	Protected against spraying water in all directions	IPX4

Decontamination configuration

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

Powered Air Turbo Unit	Protection Code Description	Code
TR-602E and TR-602E-CX Turbo fitted with cleaning and storage plugs (no Filter or Battery Pack)	Dust tight	IP6X
	Protected against temporary water immersion	IPX7
TR-602E and TR-602E-CX Battery Packs fitted with cleaning cover	Protected against temporary water immersion	IPX7
TR-802E Turbo fitted with cleaning and storage plugs (no Filter or Battery Pack)	Dust tight	IP6X
	Protected against temporary water immersion	IPX7
TR-802E Battery Packs fitted with cleaning cover	Protected against temporary water immersion	IPX7

Electromagnetic Compatibility (EMC)

The Powered Air Turbo Units also comply with the requirements of the Electromagnetic Compatibility Directive 2014/30/EC.

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Systems Components

The major components of each system are a 3M Versaflo Headtop with a 3M Breathing Tube and, as standard, a 3M Waist Belt mounted Powered Air Turbo complete with Battery and Filter(s).

Components common to all systems:

Headtops

The Versaflo M-306 and M-307 Headtops comprise of an Industrial Safety Helmet complete with a lift-up Visor/Faceseal section incorporating a clear coated or clear uncoated Visor and a Comfort or Flame Resistant Faceseal. The models are identical except that as standard the M-306 and M-307 are fitted with Comfort and Flame Resistant Faceseals respectively. In use the Faceseals are interchangeable.

Breathing Tubes

Each system can be fitted with the BT-Series Breathing Tubes consisting of the BT-20S (lightweight, short/medium), BT-20L (lightweight, medium/long), BT-30 (self-adjusting) or BT-40 (heavy duty rubber) Breathing Tubes. The Breathing Tubes incorporate a quick release connector which allows easy connection/disconnection to the Headtops.

Connected Sensor Kit Headtop Accessory

The 3M Connected Sensor Kit HTP-1-KIT-CX for M-Series (Visor Sensor) is available for use as a retrofit accessory in M-Series Headtops with Powered Air Turbo Units TR-302E+, TR-602E and TR-602E-CX.

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Components of specific systems:

Systems incorporating a TR-302E+ Turbo Unit	
Batteries	
Description	Part No.
Standard Economy	TR-330
High Capacity	TR-332
Filters	
P R	TR-3712E
P R plus nuisance level Organic Vapour	TR-3802E
P R plus nuisance level Acid Gas (HF 10xTLV)	TR-3822E
Belts, Braces and Backpack	
Standard Belt	TR-325
Leather Belt	TR-326
Easy Clean Belt	TR-327
Backpack	BPK-01
Backpack	BPK-HD
Backpack	TR-927
Braces	TR-329/022-25-10

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Components of specific systems:

Systems incorporating a TR-602E Turbo Unit and TR-602E-CX Connected Turbo Unit	
Batteries	
Description	Part No.
Standard Economy	TR-630
High Capacity	TR-632
Filters	
P R	TR-6710E
A1P R	TR-6110E
A1B1E1P R	TR-6130E
A2P R	TR-6310E
P R plus nuisance level Organic Vapour and Acid Gas	TR-6820E
A2B2E2K1HgP R	TR-6580E
A2B2E2K1HgP R	TR-6581E
Belts, Braces and Backpack	
High Durability Belt	TR-626
Easy Clean Belt	TR-627
Backpack	BPK-01
Backpack	BPK-HD
Backpack	TR-927
Braces	TR-329/022-25-10

Systems incorporating a TR-802E Turbo Unit	
Batteries	
Description	Part No.
Standard	TR-830
Filters	
P R	TR-6710E
A1P R	TR-6110E
A1B1E1P R	TR-6130E
A2P R	TR-6310E
P R plus nuisance level Organic Vapour and Acid Gas	TR-6820E
A2B2E2K1HgP R	TR-6580E
A2B2E2K1HgP R	TR-6581E
Belts, Braces and Backpack	
High Durability Belt	TR-626
Easy Clean Belt	TR-627
Backpack	BPK-01
Backpack	BPK-HD
Backpack	TR-927
Braces	TR-329/022-25-10

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Packaged variants

In addition to the products referenced on this Certificate the standard industrial products may also be sold as market specific packaged variants. Such variants will be differentiated and the 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 Helmets	TF0214
3M BT-20S/BT-20L, BT-30 & BT-40 Breathing Tubes	TF0137
3M Versaflo TR-302E+ Powered Air Turbo & Filters (1)	TF0211
3M Versaflo TR-602E Powered Air Turbo and TR-602E-CX Connected Powered Air Turbo	TF0405
3M Versaflo TR-600 Filters	TF0429
3M Versaflo TR-802E Powered Air Turbo	TF0476
3M Connected Sensor	TF0662

- (1) Technical File from Amendment 6 – 24.10.2016 onward references the 3M TR-302E+ model, prior to this Amendment the File referenced the TR-302E model.

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Certificate Amendment Record:

Issue date	Comments	BSI Review No.
August 2018	First issue under PPE Regulation (EU) 425/2016. M-306/M-307 based systems were initially Certified to Article 10 of the PPE Directive 89/686/EEC, BSI issued Certificate CE 557351 refers. The Certification of the industrial safety helmet used in the systems is now to EN 397:2012+A1:2012. Systems incorporating the TR-302E have not been transitioned to the PPE Regulation and systems incorporating the TR-802E have been introduced.	0086:18:8697660 and 0086:18:8846001
August 2020	Add Module C2 certificate CE 732641 to Certificate Validity Section.	2797:20:3257091
October 2020	Comments updated in Certificate Amendment Record for August 2020 (for Administrative Description only).	2797:20:3310503
January 2021	Addition of the TR-602E-CX Connected Powered Air Turbo Unit and 3M Connected Sensor Kit HTP-1-KIT-CX	2797:21:3164151
October 2022	Administrative changes to EN 166 claims	2797:22:3582438
August 2023	Administrative changes to remove all reference to Jupiter systems, add BPK-HD and TR-927 Backpacks. Removal of cancelled module C2 CE 732641 certificate from certificate validity	2797:23:3918164
August 2023	5-year certificate renewal under PPE Regulation (EU) 2016/425	2797:23:3964680
May 2024	Addition of new filter, TR-6581E (A2B2E2K1HgP R) for use with TR-602E and TR-802E Powered Air Turbo Units.	2797:24:30162852

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 for the products is also dependent on the maintenance of the EU Conformity to Type Based on Quality Assurance of the Production Process, Annex VIII (Module D), as referenced on BSI issued Certificate CE 595701.

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