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 682170

In respect of:

Respiratory protective devices to EN 12941:1998+A2:2008
Powered filtering devices incorporating a helmet or a hood
Models: Ranges based on the 3M™ Versaflo™ S-655/S-855E and S-665/S-865E Headtops.

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):

Graeme Tunbridge, Senior Vice President Global Regulatory & Quality

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PRODUCTS
RvA C 646

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Product Specification

Product Name:	Headtop based Powered Air Respiratory Protective Systems.
Product Type:	Powered air filtering devices incorporating a hood to additionally provide eye and face protection.
Models: (standard industrial products)	3M™ Versaflo™ S-655 and S-665 Headtops - TR-302E+ systems 3M™ Versaflo™ S-655 and S-665 Headtops - TR-602E systems 3M™ Versaflo™ S-655 and S-665 Headtops - TR-802E systems 3M™ Versaflo™ S-855E and S-865E Headtops - TR-302E+ systems 3M™ Versaflo™ S-855E and S-865E Headtops - TR-602E systems 3M™ Versaflo™ S-855E and S-865E Headtops - TR-802E systems
Technical Specification:	Harmonized European Standard EN 12941:1998+A2:2008
EN 12941 classifications:	TR-302E+ systems: TH3 TR-602E systems: TH3 TR-802E systems: TH3.

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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	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 Turbo fitted with cleaning and storage plugs (no Filter or Battery Pack)	Dust tight	IP6X
	Protected against temporary water immersion	IPX7
TR-602E 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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System 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 S-655 and S-855E headtops are supplied to the user as a kit incorporating a hood (S-605 or S-805E). The hoods incorporate an inner neck collar, an integral clear visor and an outer shroud. The kit also includes a premium re-usable head suspension (S-950) that allows the end user to adjust the airflow distribution. An optional size reducing comfort pad can be fitted to meet the needs of a global user group.

The Versaflo S-665 and S-865E headtops can be achieved via conversion of S-655 and S-855E headtops respectively. This is completed by replacing the premium re-usable head suspension (S-950) with an adapter (S-960) fitted to an industrial safety helmet (G3000, G3001 or H-700). Alternatively, S-605 or S-805E hoods can be fitted directly with an adapter (S-960) fitted to an industrial safety helmet (G3000, G3001 or H-700) to become S-665 and S-865E respectively.

The models share a common design but the fabric and visor materials differ. The hoods are fitted with a visor manufactured from polycarbonate for S-605 and hard coated polycarbonate for S-805E.

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 for easy connection/disconnection to the Headtops.

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Components of specific systems:

Systems incorporating a TR-302E+ Turbo Unit	
Batteries	
Description	**Part No.**
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 and Backpacks	
Standard Belt	TR-325
Leather Belt	TR-326
Easy Clean Belt	TR-327
Backpack	BPK-HD
Backpack	TR-927

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Components of specific systems:

Systems incorporating a TR-602E 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 and Backpacks	
High Durability Belt	TR-626
Easy Clean Belt	TR-627
Backpack	BPK-HD
Backpack	TR-927

Systems incorporating a TR-802E Turbo Unit	
Batteries	
Description	**Part No.**
Standard Economy	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 and Backpacks	
High Durability Belt	TR-626
Easy Clean Belt	TR-627
Backpack	BPK-HD
Backpack	TR-927

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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.

Certificate Administration Details:

Technical File References:

System Component	Technical File
3M Versaflo S-655/S-665 and 3M Versaflo S-855E/S-865E	TF0706
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	TF0405
3M Versaflo TR-600 Filters	TF0429
3M Versaflo TR-802E Powered Air Turbo.	TF0476

(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. S-655/S-855E based systems were initially Certified to Article 10 of the PPE Directive 89/686/EEC, BSI issued Certificate CE 539747 refers. Systems incorporating the TR-302E Turbo have not been transitioned to the PPE Regulation and systems incorporating the TR-802E Turbo have been introduced.	0086:18:8697602 and 0086:18:8846037
August 2020	Add Module C2 certificate CE 732641 to Certificate Validity Section.	2797:20:3257096
October 2020	Comments updated in Certificate Amendment Record for August 2020 (for Administrative Description only).	2797:20:3310507
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	2797:23:3918168
August 2023	5-year certificate renewal under PPE Regulation (EU) 2016/425	2797:23:3964685
May 2024	Addition of new filter, TR-6581E (A2B2E2K1HgP R) for use with TR-602E and TR-802E Powered Air Turbo Units.	2797:24:30162857
February 2025	Addition of S-665 and S-865E Headtops with TR-302E+, TR-602E and TR-802E systems. Removal of TR-330 Economy Standard Battery, BPK-01 Backpack and TR-329/022-25-10 Braces following discontinuation. Technical file reference TF0399 corrected to TF0706.	2797:25:30337626
November 2025	Update to remove reference to EN 166 and EN 397.	2797:25:30543627

Certificate validity

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall process 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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