

EU Type Examination Certificate

This is to certify that:

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

Holds Certificate Number:

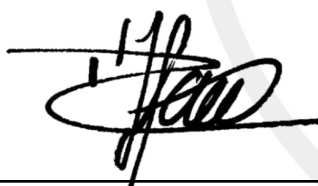
CE 682172

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-657/S-757 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):



Drs. Dave Hagenaaars, Managing Director

First Issued: 2018-08-24

Latest Issue: 2020-10-30

Effective Date: 2020-10-30

Expiry Date: 2023-08-24

Page: 1 of 9



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EU Type Examination Certificate

No. CE 682172

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-657 Headtop - Jupiter™ systems 3M™ Versaflo™ S-657 Headtop - TR-302E+ systems 3M™ Versaflo™ S-657 Headtop - TR-602E systems 3M™ Versaflo™ S-657 Headtop -TR-802E systems 3M™ Versaflo™ S-757 Headtop - Jupiter™ systems 3M™ Versaflo™ S-757 Headtop - TR-302E+ systems 3M™ Versaflo™ S-757 Headtop - TR-602E systems 3M™ Versaflo™ S-757 Headtop - TR-802E systems.		
Technical Specification:	Harmonized European Standard EN 12941:1998+A2:2008 Harmonized European Standard EN 166:2001.		
EN 12941 classifications:	Jupiter™ systems:	TH3	
	TR-302E+ systems:	TH3	
	TR-602E systems:	TH3	
	TR-802E systems:	TH3.	
EN 166 classifications:	Applicable to the Visor for all models of Headtop.		

EN 166 Attribute	Marking symbol
Optical class	2
Protection against high speed particles, low energy impact	F
Protection against droplets and splashes of liquids.	3.

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

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Expiry Date: 2023-08-24

Page: 2 of 9

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No. CE 682172

Additional independently Certified characteristics of the systems:

Intrinsic Safety (IS)

Jupiter Powered Air Turbo

The Jupiter Powered Air Turbo Unit has the option of being configured as an Intrinsically Safe (IS) Unit, consisting of the Turbo Unit, IS Battery Pack, IS Pouch.

This configuration has been assessed by Sira Certification Limited and is referenced on Product Conformity Certificate Sira Ex09Y2202X, assessed as follows:

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

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

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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Page: 3 of 9

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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
Jupiter	Dust protected	IP5X
	Protected against spraying water	IPX3
Jupiter with IS pouch	Dust tight	IP6X
	Protected against spraying water	IPX3
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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Page: 4 of 9

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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-657 and S-757 Headtops are fabric Headcover/re-useable head suspension units incorporating an Inner Shroud, an integral clear Visor and an Outer Shroud. The re-usable head suspension unit incorporates an air duct that allows the end user to adjust the airflow distribution. The models share a common design but the fabric and Visor materials differ.

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.

First Issued: 2018-08-24

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Expiry Date: 2023-08-24

Page: 5 of 9

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Components of specific systems:

Systems incorporating a Jupiter Turbo Unit	
Batteries	
Description	Part No.
4 hour (IS)	007-00-62
4 hour	007-00-63
8 hour	007-00-64
Filters	
P R	450-00-25
A2P R	453-00-25
A1B1E1P R	456-18-25
A2B1E1K1P R	453-09-25
Belt and Braces	
Belt	BLT-12
Braces	TR-329/022-25-10

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
Braces	TR-329/022-25-10

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Page: 6 of 9

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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
Belts, Braces and Backpack	
High Durability Belt	TR-626
Easy Clean Belt	TR-627
Backpack	BPK-01
Braces	TR-329/ 022-25-10

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
Belts, Braces and Backpack	
High Durability Belt	TR-626
Easy Clean Belt	TR-627
Backpack	BPK-01
Braces	TR-329/022-25-10

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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Page: 7 of 9

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Certificate Administration Details

Technical File References

System Component	Technical File
3M Versaflo S-657 and 3M S-757	TF0400
3M BT-20S/BT-20L, BT-30 & BT-40 Breathing Tubes	TF0137
3M Jupiter Filters	TF0200
3M Jupiter Powered Air Turbo	TF0210
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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Page: 8 of 9

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Certificate Amendment Record:

Issue date	Comments	BSI Review No.
August 2018	First issue under PPE Regulation (EU) 425/2016. S-657/S-757 based systems were initially approved to Article 10 of the PPE Directive 89/686/EEC, BSI issued Certificate CE 539748 refers. Systems incorporating the TR-302E Turbo have not been transitioned to the PPE Regulation and systems incorporating the TR-802E have been introduced.	0086:18:8697650 and 0086:18:8846065
August 2020	Add Module C2 certificate CE 732641 to Certificate Validity Section.	2797:20:3257097
October 2020	Comments updated in Certificate Amendment Record for August 2020 (for Administrative Description only).	2797:20:3310508

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 and Conformity to type based on internal production control, Annex VII (Module C2) as referenced on BSI issued certificate CE 732641.

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Page: 9 of 9

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