

EC Type Examination Certificate

This is to certify that:

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

Holds Certificate Number:

CE 539747

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 Headtops.

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, a Notified
Body for the above Directive
(Notified Body Number 0086):



Gary Fenton, Global Product Certification Director

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Product Details

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™ S-655 Headtop - 3M™ Jupiter™ systems 3M™ S-655 Headtop - 3M™ Versaflo™ TR-302E systems 3M™ S-655 Headtop - 3M™ Versaflo™ TR-602E systems 3M™ S-855E Headtop - 3M™ Jupiter™ systems 3M™ S-855E Headtop - 3M™ Versaflo™ TR-302E systems 3M™ S-855E Headtop - 3M™ Versaflo™ TR-602E systems.		
Technical Specification:	Harmonized European Standard EN 12941:1998+A2:2008. Harmonized European Standard EN 166:2001.		
EN 12941 classifications:	3M™ Jupiter™ systems:	TH3	
	3M™ Versaflo™ TR-302E systems:	TH3	
	3M™ Versaflo™ TR-602E systems:	TH3.	
EN 166 classifications:	Applicable to the Visor for both 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 protection were based on BS EN 166:2002, the English language version of EN 166:2001 - personal eye protection.

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Additional independently Certified characteristics of the systems:

Intrinsic Safety (IS)

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 T55OC 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.

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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

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

Electromagnetic Compatibility (EMC)

The Jupiter, TR-302E and TR-602E Powered Air Turbo Units also comply with the requirements of the Electromagnetic Compatibility Directive 2004/108/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 fabric Headcover/re-usable head suspension units incorporating an Inner Neck Collar, 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.

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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
K1P R	453-16-25
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

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
Belts, Braces and Backpack	
High Durability Belt	TR-626
Easy Clean Belt	TR-627
Backpack	BPK-01
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.

Certificate Administration Details:

Technical File References

System Component	Technical File
3M Versaflo S-655 and 3M Versaflo S-855E.	TF0399.
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.	TF0211.
3M Versaflo TR-602E Powered Air Turbo.	TF0405.
3M Versaflo TR-600 Filters.	TF0429.

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

Issue date	Comments	BSI Review No.
30 March 2009	First issue, models 3M Versaflo S-655.	0086:7230600
22 September 2010	Addition of 3M Versaflo TR-302E Powered Air Turbo systems and upgrading of other systems to EN 12941:1998+A2:2008.	0086:7461572
18 June	Deletion of Dustmaster systems as Dustmaster Turbo is no longer manufactured. Addition of the 3M Versaflo TR-602E systems and TR-600 filters. Article 11B Certificate reference changed to that of the 'multi-site' Certificate.	0086:8197531
Latest Issue	Addition of filters TR-6130E, TR-6310E and TR-6820E for the 3M Versaflo TR-602E systems.	0086:8411162

Note:

Prior to the June 2015 issue of this Certificate the 3M S-855E Headtop based systems incorporating the 3M Dustmaster, Jupiter and TR-302E Powered Air Turbos were referenced on BSI issued Certificate CE 539752.

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 issued Certificate CE 595701.

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