

# 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 539748

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 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-657 Headtop - 3M™ Jupiter™ system
  - 3M™ S-657 Headtop - 3M™ Versaflo™ TR-302E system
  - 3M™ S-657 Headtop - 3M™ Versaflo™ TR-302E+ system
  - 3M™ S-657 Headtop - 3M™ Versaflo™ TR-602E system
  
  - 3M™ S-757 Headtop - 3M™ Jupiter™ system
  - 3M™ S-757 Headtop - 3M™ Versaflo™ TR-302E system
  - 3M™ S-757 Headtop - 3M™ Versaflo™ TR-302E+ system
  - 3M™ S-757 Headtop - 3M™ Versaflo™ TR-602E system.

**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-302E+ systems:	TH3
3M™ Versaflo™ TR-602E systems:	TH3.

**EN 166 classifications:** Applicable to 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 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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## **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 6124-1:2004, Electrical apparatus for use in the presence of combustible dust. Protection by enclosures "tD".

### **Certification code and marking:**

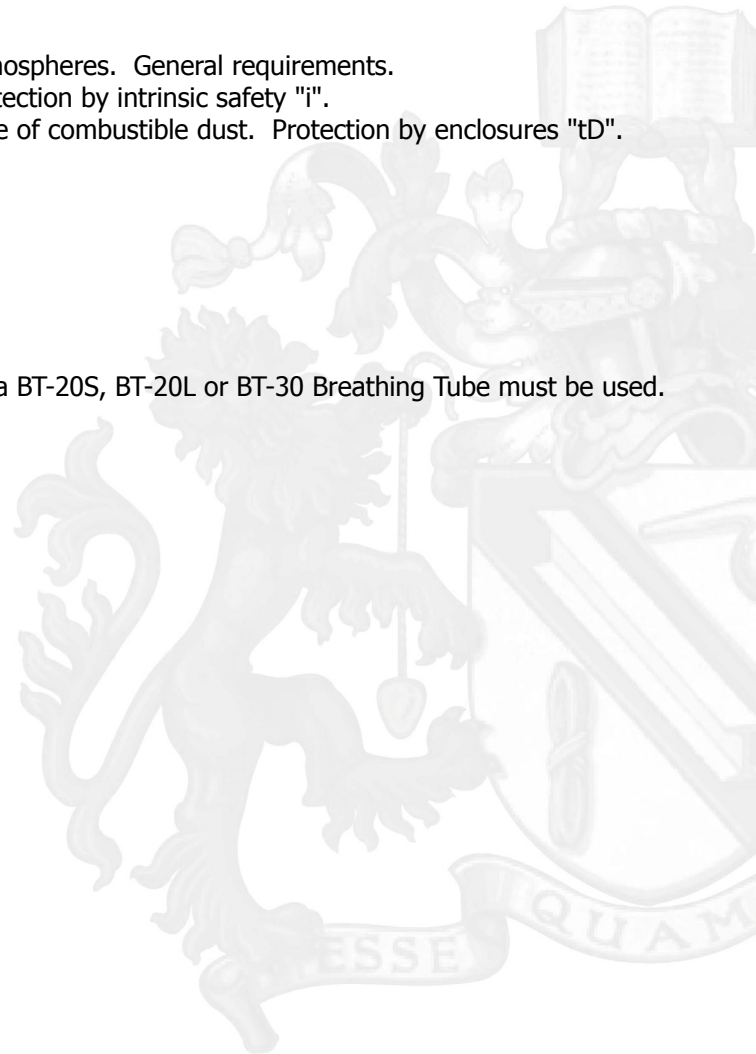
Ex ib IIB T3 Gb

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.



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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 and 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 whilst the TR-302E+ Powered Air Turbo Unit complies with 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).

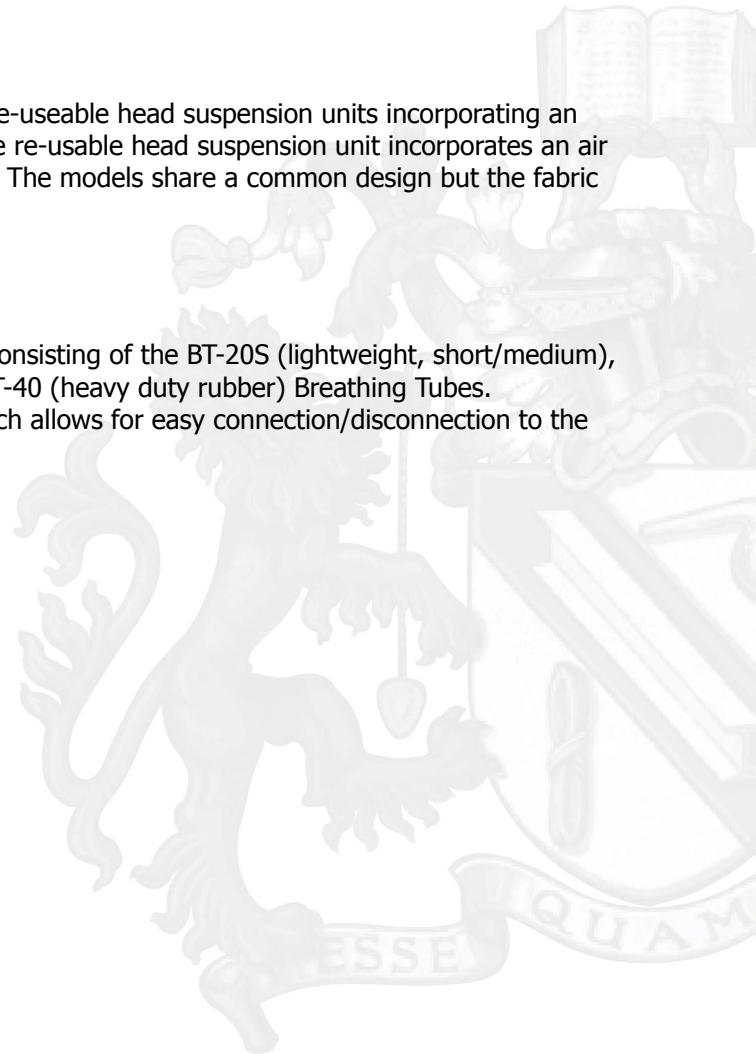
## Components common to all systems:

### Headtops

The Versaflo S-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.



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## Components of specific systems:

<b>Systems incorporating a Jupiter Turbo Unit</b>	
<b>Batteries</b>	
Description	Part No.
4 hour (IS)	007-00-62
4 hour	007-00-63
8 hour	007-00-64
<b>Filters</b>	
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
<b>Belt and Braces</b>	
Belt	BLT-12
Braces	TR-329/ 022-25-10

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

<b>Systems incorporating a TR-602E Turbo Unit</b>	
<b>Batteries</b>	
Description	Part No.
Standard Economy	TR-630
High Capacity	TR-632
<b>Filters</b>	
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
<b>Belts, Braces and Backpack</b>	
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. 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.

## 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-302E+ Powered Air Turbo & Filters (2).	TF0211.
3M Versaflo TR-602E Powered Air Turbo.	TF0405.
3M Versaflo TR-600 Filters.	TF0429.

- (1) Technical File up to and including Amendment 9 – 25.05.2016 references the 3M TR-302E model.
- (2) Technical File from Amendment 10 – 30.09.2016 onward references the 3M TR-302E+ model.

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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-657.	0086:7230602
22 September 2010	Addition of 3M Versaflo TR-302E Powered Air Turbo systems and upgrading of other systems to EN 12941:1998+A2:2008.	0086:7461576
23 June 2015	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.	0086:8197653
28 August 2015	Addition of filters TR-6130E, TR-6310E and TR-6820E for the 3M Versaflo TR-602E systems.	0086:8411243
6 June 2016	Addition of filter TR-6580E for the 3M Versaflo TR-602E systems.	0086:8547819
November 2016	Addition of the 3M Versaflo TR-302E+ systems.	0086:8645378

**Note:** Prior to the May 2015 issue of this Certificate the 3M S-757 Headtop based systems incorporating the 3M Dustmaster, Jupiter and TR-302E Air Turbos were referenced on BSI issued Certificate CE 539750.

## 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 number CE 595701.

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