



Science.  
Applied to Life.™

3M™ Versaflo™ Intrinsically Safe  
Powered Air Respirator TR-800 Series

# The New Standard in Intrinsically Safe Respiratory Protection.

#3MScienceOfSafety



# Personal protection that provides Intrinsically Safe Respiratory Protection for use in potentially explosive atmospheres.

**Intrinsically Safe (IS) Powered Air Turbo and Battery TR-800 Series are ATEX Certified for use in potentially explosive atmospheres whilst offering the comfort, modularity, control and ease of use expected from the 3M™ Versaflo™ platform.**

Whenever the job takes your people into a potentially explosive area – whether from flammable gases and liquids or combustible dust – ignition from an electrical source could trigger a disaster.

Now, with the introduction of the **3M™ Versaflo™ IS Powered Air Respirator, TR-800 Series**, you can give the people in your care a high level of respiratory protection and help minimise the risk of fire or explosion. The IS TR-800 Series is approved to Zone 0 requirements and so may be suitable for areas where potentially explosive atmospheres are expected and permanent in normal operations.

As part of the 3M Versaflo family, when the IS TR-800 Series is combined with Versaflo headtops, belts, and other accessories, it becomes part of a CE-approved respirator system featuring: multiple speeds, audible and visual alarms and the ability to work with a wide variety of gas, vapour and particulate filters.



# The 3M™ Versaflo™ IS Powered Air Respirator, TR-800 Series, is approved against the latest Electrical Standards.

**Comfortable airflow**

- ▶ Three user selectable flow rates to maximise comfort
- ▶ Controlled airflow delivers steady flow as battery discharges or filter loads with particulates

**Innovative materials**

**Ease of use**

- ▶ IS TR-800 Series display shows battery charge status and particulate filter loading status during use
- ▶ **Battery charge indicator** - charge status is also indicated by a useful LED display on the battery
- ▶ No user calibration of turbo required
- ▶ Electronic audible and visual alarm in case of low battery and/or low air flow

**Easy identification**

Bright yellow touchpoints to differentiate from non-IS versions of Versaflo Product Family

**Secure battery attachment**

Mechanical attachment of battery to help prevent battery removal and spark risk during use per EN 60079-11

**Battery Protection**

Battery features bumpers to help absorb impacts

**Motor/Blower Safety**

<p><b>Non-Mining Gas atmospheres (Group II)</b>  <b>EN 60079-11 Ex ia IIB T4 Ga</b>                  ia - intrinsic safety for Equipment protection level Ga                  IIB - Gas apparatus group                  T4 - Max. surface temperature 135°C (-20°C ≤ Ta ≤ 55°C)</p>	<p><b>Non-Mining Dust atmospheres (Group III)</b>  <b>EN 60079-11 Ex ia IIIC 135°C Da</b>                  ia - intrinsic safety for Equipment protection level Da                  IIIC - Dust apparatus group                  135°C - Max surface temperature 135°C (-20°C ≤ Ta ≤ 55°C)</p>
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## A truly global respirator platform

The IS TR-800 Series will be launched globally, which gives multinational customers the option to standardise on one product platform with both NIOSH and CE versions available.

Apart from the battery, it uses the same filters, other consumables and accessories as TR-600 Series (non-IS, industrial version).

## Designed for improved worker comfort, convenience and control.

**Keep the air flowing** – multi-speed blower functions at altitudes up to 5000m. Battery offers long run time and charges quickly, achieving 90% charge in approximately 3.5 hours.

**More options for more tasks** – choose from particulate filters or gas and vapour combination filters for protection in a variety of environments.

**Work at your own speed** – multiple airflow rates put you in control of your comfort.

**Battery:**

- ▶ Approximately 750 full charge/discharge cycles
- ▶ Built in charge level indicator
- ▶ Mechanical attachment of battery to help prevent battery removal during use

**Work with ease** – intuitive, coloured touchpoints plus visual and audible lowflow indicators help make the IS TR-800 Series easy to use.



# Our new standard of protection for hazardous environments.

Interchangeable components enable you to build a customised powered air respirator to help you meet the needs of your specific application.

Whether you're mixing and granulating compounds in a pharmaceutical facility or working with combustible gases in the oil and gas industry, the IS Powered Air Turbo, TR-800 Series is built for environments where intrinsically safe (IS) equipment is essential. These types of environments may be found in industries such as:

- ▶ **Food production**
- ▶ **Chemical handling**
- ▶ **Oil and gas refining**
- ▶ **Automotive and industrial paint spraying**
- ▶ **Pharmaceutical manufacturing**

## Pharmaceutical



- ▶ Fully submersible\* product features a smooth design surface that's quick and easy to clean
- ▶ Ergonomically designed for greater movement in tight work spaces, such as overhauling and/or cleaning reactors and tanks
- ▶ Designed for work areas requiring Intrinsically Safe (IS) rated equipment

\*Requires purchase of TR-653 Cleaning and Storage Kit

## Oil and gas



- ▶ Ergonomically designed for greater movement in tight work spaces during plant turnaround and maintenance activities
- ▶ Simplifies PPE compatibility challenges for contractors with a solution designed to provide integrated respiratory, eye, face, and head protection
- ▶ Designed for plant areas where work permits require Intrinsically Safe (IS) rated equipment

## Paint spray



- ▶ Ergonomically designed for greater movement in paint booth. Unlike supplied air systems, a powered air respirator does not require that you be connected to your air source by a CAST, leaving you free to go where you need to go
- ▶ Multiple CE-approved headtop options available with the IS TR-800 Series to meet the needs of paint spray applications, including the Faceshield M-206 and the Painter's Hood with Premium Harness S-757
- ▶ Fully submersible\* product features a smooth design surface that's quick and easy to clean

\*Requires purchase of TR-653 Cleaning and Storage Kit







# Convenient ways to buy.

## Recommended for:

Environments where IS equipment is required.

## Starter Kit TR-819E

Includes:

- ▶ **BT-30** Length Adjusting Breathing Tube
- ▶ **TR-6310E** (A2P) Filter
- ▶ **TR-641E** Single Station Battery Charger
- ▶ **BT-922** Breathing Tube Cover
- ▶ **TR-802E** Intrinsically Safe Powered Air Turbo
- ▶ **TR-830** Intrinsically Safe Battery
- ▶ **TR-838** Battery Attachment Tool
- ▶ **TR-627** Easy Clean Belt
- ▶ **TR-6300** Filter Cover
- ▶ **TR-971** Airflow Indicator
- ▶ **TR-6600** Pre-Filter (x10)



## Total customisation

If you need full customisation of your 3M™ Versaflo™ IS Powered Air Turbo, TR-800 Series, you can purchase all components separately (see tables on next page).



# Products

## Turbo / Starter Kits



3M™ Versaflo™ TR-819E IS Starter Kit
3M™ Versaflo™ TR-819UK IS Starter Kit
3M™ Versaflo™ TR-802E Intrinsically Safe Powered Air Turbo (includes TR-971 Air Flow Indicator)

## Battery



3M™ Versaflo™ TR-830 Intrinsically Safe Battery (includes TR-838 Battery Attachment Tool)
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## Filters



3M™ Versaflo™ TR-6710E P
3M™ Versaflo™ TR-6820E P + Nuisance Odour Organic Vapour Filter and Acid Gas (Hydrogen Fluoride up to 10x Threshold Limit)
3M™ Versaflo™ TR-6110E A1P
3M™ Versaflo™ TR-6130E ABE1P
3M™ Versaflo™ TR-6310E A2P
3M™ Versaflo™ TR-6580E ABE2K1HgP
3M™ Versaflo™ TR-6600 Pre-filter
3M™ Versaflo™ TR-662 Spark Arrestor

## Filter covers

3M™ Versaflo™ TR-6700FC
3M™ Versaflo™ TR-6800FC
3M™ Versaflo™ TR-6100FC
3M™ Versaflo™ TR-6300FC
3M™ Versaflo™ TR-6500FC

## Chargers



3M™ Versaflo™ TR-641E Single Station Battery Charger Kit
3M™ Versaflo™ TR-641UK Single Station Battery Charger Kit
3M™ Versaflo™ TR-644E 4-Station Battery Charger Kit
3M™ Versaflo™ TR-644UK 4-Station Battery Charger Kit

## Belts / backpack and braces



3M™ Versaflo™ TR-626 High-Durability Belt
3M™ Versaflo™ TR-627 Easy-Clean Belt
3M™ Versaflo™ BPK-01 Backpack
3M™ Versaflo™ TR-655 Backpack Adaptor
3M™ Versaflo™ TR-329 Braces

## Spares and accessories



3M™ Versaflo™ TR-838 Battery Attachment Tool
3M™ Versaflo™ TR-851 Filter Latch Assembly
3M™ Versaflo™ TR-971 Airflow Indicator
3M™ Versaflo™ TR-653 Cleaning and Storage Kit

For more information, visit us at [3M.com/versaflo800](https://www.3m.com/versaflo800)

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