

3M™ Versaflo™ TR-300/TR-300+ Filters

Technical Data Sheet

Description

The following filters are made to be used with the Versaflo™ TR-300 and TR-300+ Powered Air Purifying Respirator (PAPR) for protection against particulates and some nuisance concentration gases and vapours. These filters used with the TR-302E/TR-302E+ Powered Air Turbo are part of a respirator system compliant with the Australian/New Zealand Standard AS/NZS 1716:2012

Application

These filters are designed to capture airborne particulates (thermally and/or mechanically generated particulates) of all sizes.

The TR-3802E and TR-3822E also have a limited capability to adsorb organic vapours (TR-3802E) or acid gas (TR-3822E). These are for use against nuisance levels of these gas/vapours ie airborne concentrations that are below the relevant Workplace Exposure Standard for the specific gas/vapours involved.

For exposures to significant levels of gas/vapours, the Versaflo™ TR-600 and its associated filters should be considered.

Protection Factors

When fitted with any of the PAPR-P3 filters, the Versaflo™ TR-300+ PAPR will give the wearer a protection factor of 50 against mechanically and thermally generated particles (AS/NZS 1715).

These PAPR products are available with a range of different headtops for various applications e.g. lightweight head coverings, hoods and headtops.

Specifications

Filtration	>99.95% efficient (AS/NZS1716:2012)
Length	350 (mm)
Width	195 (mm)
Height	125 (mm)
Weight	1.30 (kg)
Expiry	5 years from Date of Manufacture – indicated on filter



Service Life

The service life of these filters will vary according to the time of use, the selected flow rate and level of exposure to airborne particulates. There is a visual and audible alarm on the control panel of the air filter unit and an indication of current condition of the particle filter. When the filter is full a warning will sound and the filter will need to be replaced with a new one.

Disposal

If disposal of parts is required, this should be undertaken in accordance with local health and safety and environmental regulations.

Storage

This product should be stored in the packaging provided in dry, clean conditions, away from direct sunlight, sources of high temperature, petrol and solvent vapours. Do not store outside the temperature range -30°C to +50°C or with humidity above 90%. If the product will be stored for an extended period of time before use, the suggested storage temperature is 4°C to 38°C. Before initial use, always check that the product is within the stated shelf life (use by date).



Before selecting a filter the following should be considered:

- Complete a risk assessment.
- Identify and measure the hazardous substances in the workplace environment.
- Compare those airbourne contaminants to the relevant workplace exposure limit values.
- When selecting the correct RPE consider the properties of the hazardous substances, the needs and work of the wearer and workplace conditions.
- Does the atmosphere contain sufficient oxygen throughout the period of exposure?
- If there is insufficient oxygen or the contaminant concentrations are unknown or higher than the exposure limits then SCBA or Airline must be used.
- Responsibility for correct filter selection remains with the end user.

Limitations of use

- Do not use for respiratory protection against unknown atmospheric contaminants or when concentrations of contaminants are unknown or immediately dangerous to life or health (IDLH).
- Do not use in atmospheres containing less than 19.5% oxygen. (3M definition. Individual countries may apply their own limits on oxygen deficiency. Seek advice if in doubt).
- Do not use against contaminants with poor warning properties.
- The filter cannot be cleaned and should be replaced if excessively dirty.
- Keep inner filter seal clean. The seal can be cleaned with fresh water but ensure that water does not enter the filter.
- Never attempt to clean filters by knocking or blowing out accumulated material.

Product

The following filter options are available for the TR-302E/TR-302E+ Powered Air Turbo's:

3M Code	Model #	Description
70071765054	TR-3712E PAPR-P3	For use against all particulates
78815069386	TR-3802E	PAPR-P3 For use against all particulates plus nuisance levels of organic vapours (Boiling Pt >650°C)
78815069394	TR-3822E	PAPR-P3 For use against all particulates plus nuisance levels of acid gases
AT010592650 NZ Code: CR180811422	TR-3600 Prefilter	Used to extend the service life of the main filter

Ordering Information

3M Code	Model #	Description
AT010592650	TR-3600	Versaflo™ Prefilter
70071765054	TR-3712E	Versaflo™ Filter Particulate, P3
78815069386	TR-3802E	Filter P3 plus Nuisance Organic Vapour
78815069394	TR-3822E	Filter P3 & HF Plus Nuisance Acid Gases

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