

3M™ PV-300E Series

Technical datasheet

Description

The 3M™ PV-300E Series is a face-mounted air purifying device that is intended to be used in certain asbestos applications. The system incorporates a belt-mounted battery pack, full face mask and a particulate filter which provides protection against respiratory, face and eye hazards whilst working in environments containing asbestos.

- Available in three sizes to suit a wide range of users: PV-300E-S (Small); PV-300E-M (Medium); and PV-300E-L (Medium/Large)
- Power on/off push button mounted on mask
- Li ion battery
- 3 beeps sound to indicate the design flowrate has been achieved
- Audible alarms including for low battery, low motor speed and high motor speed (which can indicate when the filter needs changing)
- Water ingress protection allows continued operation in decontamination shower (IP 54). Blower unit and battery should not be submerged
- Supplied in a sturdy carry case to provide protection during transit and storage.
- Serviceable by Authorised Service Centre

System Classifications and Protection Factors

	EN 12942:1998 + A2:2008
Classification	TM3
NPF	2000

Note: The Nominal Protection Factor (NPF) is a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protective device. This may not be the level of respiratory protection that can be realistically expected in the workplace by wearers. Many countries apply Assigned Protection Factors (APFs) for example UK and Germany. Employers may apply a value lower than the NPF/APF if deemed applicable. Please refer to EN 529:2005 and National workplace protection guidance for application of these numbers in the workplace. Please contact 3M for further information.



Limitation

The 3M PV-300E Series should not be used in the following conditions:

- Against gas and vapour hazards
- In atmospheres containing less than 19.5% oxygen
- Confined spaces (lack of ventilation)
- When the risk is considered to be Immediately Dangerous for Life or Health (IDLH)
- Where the contaminant concentration is above the Occupational Exposure Limit defined for the system

Product Range

Part Number	Description
PV-300E-S	3M™ Powered Air Respirator System Asbestos Kit - Small sized full face mask, complete with battery, belt, charger, particulate filter and storage case
PV-300E-M	3M™ Powered Air Respirator System Asbestos Kit - Medium sized full face mask, complete with battery, belt, charger, particulate filter and storage case
PV-300E-L	3M™ Powered Air Respirator System Asbestos Kit - Medium/large sized full face mask, complete with battery, belt, charger, particulate filter and storage case

Accessories

Part Number	Description
PV-1251E	Particulate (P R SL) filter (10/case)
PV-1251E Bulk	Particulate (P R SL) filter (20/case)
SC-327	Easy Clean Belt
SC-6603	Rubber Shower Cover
PV-330	Battery
PV-341	Battery charger
PV-931-S	Spare outer mask (small)
PV-931-M	Spare outer mask (medium)
PV-931-L	Spare outer mask (medium/large)
PV-932	Motor unit
PV-933	Cable assembly
PV-934	Fit test adapter
PV-935	Visor
PV-936	Inner mask (Small) with valves
PV-937	Inner mask (Large) with valves
PV-938	Storage Case
PV-939	3M™ Spare O-Ring Pack PV-939 for PV-300E Powered Air Respirator
PV-940	3M™ Front Port and Clips Spares Pack PV-940 for PV-300E Powered Air Respirator
PV-941	3M™ Spare Valve Pack PV-941 for PV-300E Powered Air Respirator
PV-942	3M™ Spares Pack PV-942 for PV-300E Powered Air Respirator
PV-943	3M™ Spares Pack PV-943 for PV-300E Powered Air Respirator
PV-944	3M™ Harness Spares Pack PV-944 for PV-300E Powered Air Respirator
PV-945	3M™ Spare Buckles PV-945 for PV-300E Powered Air Respirator
PV-946	3M™ Spare Neckstrap PV-946 for PV-300E Powered Air Respirator
PV-947	3M™ Spare Harness PV-947 for PV-300E Powered Air Respirator
PV-948	3M™ Spare Faceseal PV-948 for PV-300E Powered Air Respirator
PV-949	3M™ Spare Faceseal PV-949 for PV-300E Powered Air Respirator
PV-950	3M™ Pump Gasket PV-950 for PV-300E Powered Air Respirator

Product Range

Technical specifications	
Approvals	CE Certified to EN 12942 :1998 A2:2008 (TM3)
MMDF (manufacturer's minimum design flow rate)	160 l/min
Battery operating time*	8 hours* * Battery durations are based on a fresh battery, appropriately charged with new filters being used at room temperature and moderate work rates. Extremes of temperature, the age and cycle of the battery, charge status, filter clogging, and high work rates may negatively impact operating time.
Charge Time	Approximately 4 hours
IP Rating	IP54 - Applies to Powered Air Respirator when worn. Suitable for cleaning by showering/water spray with filter and filter shower cover fitted
Operating range	-10 to +50°C, < 95% RH. Powered Air Turbo will operate as designed within this range
Storage Conditions	-10 to +30°C, < 75% RH
Shelf life*	5 years from date of manufacture (Battery 1 year) *The shelf life as defined above remains an indicative and maximum data, subject to many external and non-controllable factors. It may never be interpreted as a warranty.
Weight	Mask and motor (680g) Battery and belt (860g)

Material data	
Faceseal	Silicone
Inner Half Mask	Thermoplastic elastomer
Visor	Polycarbonate
Belt	Coated polyester
Battery Case	ABS

Important notice

The use of the 3M product described within this document assumes that the user has previous experience of this type of product and that it will be used by a competent professional. Before any use of this product it is recommended to complete some trials to validate the performance of the product within its expected application. All information and specification details contained within this document are inherent to this specific 3M product and would not be applied to other products or environment. Any action or usage of this product made in violation of this document is at the risk of the user.

Compliance to the information and specification relative to the 3M product contained within this document does not exempt the user from compliance with additional guidelines (safety rules, procedures). Compliance to operational requirements especially in respect to the environment and usage of tools with this product must be observed. The 3M group (which cannot verify or control those elements) would not be held responsible for the consequences of any violation of these rules which remain external to its decision and control.

Warranty conditions for 3M products are determined with the sales contract documents and with the mandatory and applicable clause, excluding any other warranty or compensation. Respiratory protection is only effective if it is correctly selected, fitted and worn throughout the time when the wearer is exposed to respiratory contaminants. 3M offers advice on the selection of products, and training in the correct fitting and usage.

For more information on 3M products and services please contact 3M.