

Procedure for Testing and Certification of Medi-vent Unit

1 - **SCOPE** : This procedure sets out the method for determining the overall integrity of the HEPA filter installation within the confines of the Medi-vent unit.

2 - **APPARATUS** : The following apparatus as specified in Australian Standard AS1807.0 shall be used:

- Aerosol generator with delivery hose
- Aerosol photometer and photometer probe tip for filter integrity testing
- Anemometer

Further apparatus required:

- Remote blower fan
- PVC Ducting
- PVC adhesive tape

3 - **METHOD** :

(a) Attach blower fan to air exit side of Medi-vent unit via flexible ducting taped at each end.

Switch on blower fan and, using the variable speed drive, ensure all velocities fall between 0.36 m/s and 0.60 m/s on the anemometer and record the location and value of the highest reading.

(b) Release aerosol into the Medi-vent unit via the blower fan allowing even distribution of aerosol to the entire filter installation. Set the pressure on the aerosol generator to 140kPa. Using the photometer in the upstream mode, ensure a 100% sample of aerosol is maintained behind the HEPA filter and adjust the photometer gain and stray light controls accordingly. The 100% sample is used as a baseline for scanning the opposite face of the HEPA filter.

(c) Set the photometer to 0.1% and, in the downstream mode, commence scanning of HEPA filter. Photometer probe should be held 25mm from filter face and the entire filter face shall be scanned at a traverse rate of not more than 50mm/s. Ensure entire filter face, filter housing and all seals and joints of the installation are scanned.

(d) Once testing is complete carry out a 100% sample as outlined in step (c) to ensure photometer is functioning correctly.

(e) Place Filterfit Test and Verification label on unit to inform operators that Medi-vent unit has been tested and ready for use.

4 - **REPORT** : The following information shall be reported:

- Client details including address and location of unit.
- Model and serial number of unit.
- Make and type of HEPA filter.
- Certificate number
- Date of test
- Name of test operator.

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