

ADVANCED HEPA TECHNOLOGIES INC.
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January 14, 2013

Amaircare Corporation
770 Gana Court
Mississauga, Ontario
L5S 1P1
Attention: Mr. Lorne Semple

RE: H.E.P.A. FILTER TESTING – 770 GANA COURT, MISSISSAUGA, ONTARIO.

Advanced H.E.P.A. Technologies Inc. (**aht**) was contacted to provide H.E.P.A. filter testing services for the client, Amaircare Corporation, at the client office, 770 Gana Court, Mississauga, Ontario. A total of two HEPA Filtration Units (HFU) were requested to be tested on January 14, 2013. Testing was performed on site in the board room.

The instrumentation used to perform the "In Place H.E.P.A. Filter System Test" or NPFU/HEPAVAC leak test includes an *Air Techniques Incorporated - Model TDA-2G Aerosol Photometer (Particulate Detection Apparatus)* and an *Air Techniques Incorporated - Model TDA-4B Polydispersed Aerosol Generator* with a separate compressed air source. The Aerosol Generator utilizes compressed air on a challenge solution of cold Poly-alpha-olefin (PAO, or Brand name "Emery 3004") to determine the filtering efficiency of the unit. The Aerosol Photometer uses a forward light scattering chamber to detect PAO particles ranging in size from 0.1 microns to 1.0 microns in size. Measurements were taken with the Aerosol Photometer downstream, and were compared to the upstream to determine the overall filter efficiency.

To determine the upstream aerosol concentration on these units, we measured volumetric airflow on each unit (using a calibrated *TSI model 9515 Thermal Anemometer*), and directly calculated the concentration. Since the HEPA filters in these units do not have access to scan test the filters, a single point test (SPT) was used to determine filtering efficiency. Testing methodology for this report are as given in the *Institute of Environmental Sciences and Technology (IEST), Standard IEST-RP-CC0034.1 HEPA and ULPA Filter Leak Tests*. Filter classification is as per criteria in *IEST-RP-CC001.3, HEPA and ULPA Filters*.

A thorough visual examination was also conducted of the H.E.P.A. filters, and the HFUs to ensure that no obvious leak sources exist. The following results were obtained during on site testing:

HFUs

Model: Amaircare Air Wash Whisper AWW675



Serial #: 5313K00028
 Date of Test: January 14, 2013
 Total Airflow: 533.6 cfm
 Calculated Upstream: 25 µg/L
 Visual Inspection:
 1) Casing in new condition
 2) HEPA filter in new condition
 Overall Efficiency: >99.995% of polydispersed particles (SPT)

Model: Amaircare Air Wash Whisper AWW350
 Serial #: 3912M00062
 Date of Test: January 14, 2013
 Total Airflow: 331.2 cfm
 Calculated Upstream: 41 µg/L
 Visual Inspection:
 1) Casing in new condition
 2) HEPA filter in new condition
 Overall Efficiency: >99.995% of polydispersed particles (SPT)

Based on the above results, the HFUs tested are functioning at an acceptable efficiency as per *IEST Standards* for a Type C HEPA filters (Biological or Industrial grade) as per *IEST-RP-CC001.3*.

We would also like to take this opportunity to thank you for using **aht** for your H.E.P.A. filter testing needs. We look forward to servicing your company in the future.

Should you have any questions please contact us.

ADVANCED HEPA TECHNOLOGIES INC.


 Kevin Tinsley, C.E.T., M.C.I.C.
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 NSF Biological Containment Cabinet
 Field Certifier - Certificate Number 58020-04

