



IEST Releases Updated Recommended Practices - HEPA and ULPA Filter Testing Practices

Through the combined efforts of industry experts, including personnel from Air Techniques International (ATI), the Institute of Environment Sciences and Technology (IEST) has updates to five salient Recommended Practices reflecting current technologies and approaches for evaluating filters and devices for controlled environments.

The five (5) updated Recommended Practices (RPs) are:

- IEST-RP-CC001.6: *HEPA and ULPA Filters*
- IEST-RP-CC002.4: *Unidirectional-Flow, Clean-Air Devices*
- IEST-RP-CC007.3: *Testing ULPA Filters*
- IEST-RP-CC021.4: *Testing HEPA and ULPA Filter Media*
- IEST-RP-CC034.4: *HEPA and ULPA Filter Leak Tests*

Salient Changes :

- IEST-RP-CC021.4: Testing HEPA and ULPA Filter Media now includes a method using a cold, neat, nebulized oil aerosol and photometry such as that employed in ATI's TDA-100P for testing and quantifying the performance of HEPA and ULPA filtration media. Sections regarding MilStd 282 have been expanded and expounded upon and the system schematics have been revised for more complete and accurate representation.
- IEST-RP-CC034.4: HEPA and ULPA Filter Leak Tests now distinguishes between filter testing procedures for production and *in-situ* testing by separating them into discrete sections. This is particularly beneficial as it clarifies the field requirements.

Other Revisions:

- IEST-RP-CC001.6: HEPA and ULPA Filters provides a schedule of eleven (11) classifications based upon performance and grade of construction for filters suitable for use in clean air devices and cleanrooms. These filters fall within the scope of ISO 14644 and in critical systems requiring minimum filtration efficiencies of 99.97% or greater.
- IEST-RP-CC007.3: Testing ULPA Filters provides guidelines and test criteria for determining the efficiency of ULPA and super ULPA filters in the factory.
- IEST-RP-CC002.4: Unidirectional-Flow, Clean-Air Devices outlines procedures for evaluating performance for classification of air cleanliness in accordance with ISO 14644-1.

All of these documents are available via IEST through their website: <http://www.iest.org/>