



**BSR/ASHRAE Addendum d to
ANSI/ASHRAE Standard 161-2018**

Public Review Draft
Proposed Addendum d to
Standard 161-2018, Air Quality
within Commercial Aircraft

Second Public Review (November 2018)
(Draft shows Proposed Changes to Current Standard)

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ASHRAE, 1791 Tullie Circle, NE, Atlanta GA 30329-2305

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FOREWORD

This proposed addendum updates the referenced filter types in Section 6.3.1 (Recirculated Air Quality) and adds/updates the respective references in Section 11 (References).

Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~striketrough~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum d to Standard 161-2018

Revise Section 6.3.1(Recirculated Air Quality) as shown below.

6.3.1 Recirculated Air Quality. All air that is recirculated through the aircraft systems shall pass through a high efficiency particulate air (HEPA) filter before it is supplied to the cabin. HEPA filters used for this purpose shall meet or exceed the requirements for Filter Type “A” as defined by ~~of~~ Institute of Environmental Science and Technology IEST-RP-CC001.67.21⁶ ~~Filter Type “A,” or MERV 17 or H13 according to EN 1822-1⁷ and shall provide a minimum of 99.97% collection efficiency for 0.3 micron particles.~~ Alternatively, the filters shall meet or exceed the requirements for filter class H13 ~~may be tested according to EN1822-1⁷ or ISO35H according to ISO29463.²⁶ and shall provide a minimum of 99.95% overall collection efficiency at the most penetrating particle size.~~ These filters and their mountings shall be designed, installed, and maintained or replaced according to manufacturer recommendations to prevent bypassing of unfiltered air due to media failure, improper installation, or other causes, and to prevent overloading. Alternative technology may be used to meet this requirement if it provides the same removal efficiency as required above for HEPA filters and is so demonstrated by a test method approved by a cognizant authority.

Revise Section 11 (References) as shown below. The rest of Section 11 is unchanged.

11. REFERENCES

6. IEST. ~~2016~~ 2007-IEST-RP-CC001.67.2, 6th Edition, *HEPA and ULPA Filters Testing ULPA Filters*, Mt. Prospect, IL: Institute of Environmental Science and Technology.
26. ISO (2011) “High-efficiency filters and filter media for removing particles in air — Part 1: Classification, performance testing and marking,” ISO 29463-1: 2011(E), First Edition. International Organization for Standardization, Geneva, Switzerland, 2011