

**ERRATA SHEET FOR
ANSI/ASHRAE STANDARD 52.2-2012
Method of Testing General Ventilation Air-Cleaning Devices
for Removal Efficiency by Particle Size**

June 29, 2015

The corrections listed in this errata sheet apply to all copies of ANSI/ASHRAE Standard 52.2-2012. The first printing is identified on the outside back cover as “Product code: 86145 1/13” and the second printing as “Product code: 86145 6/13 *Errata noted in the list dated 5/23/13 have been corrected.*” The shaded items have been added since the previously published errata sheet dated November 12, 2014 was distributed. Items identified with an asterisk “*” apply only to the first printing, they have already been incorporated into the second printing.

Page Erratum

- 23** **10.7.1.1.** Modify the second sentence in Section 10.7.1.1 as shown below.
(Note: additions are shown in underline and deletions are shown in ~~striketrough~~.)

10.7.1 Test Procedure

10.7.1.1 The test airflow rate shall be selected in accordance with Section 8.1. The final resistance shall be chosen using the ~~Table 12-1~~ values as minimum, except that the final resistance shall be equal to or greater than twice the initial resistance.

- 28** **TABLE 12-1 Minimum Efficiency Reporting Value (MERV) Parameters.** Delete the note to Table 12-1 as shown below.
(Note: additions are shown in underline and deletions are shown in ~~striketrough~~.)

~~Note: The minimum final resistance shall be at least twice the initial resistance, or as specified above, whichever is greater. Refer to Section 10.7.1.1.⁴⁵~~

- 45** **TABLE E-1 Application Guidelines.** Delete MERV 20, 19, 18, and 17 from Table E-1 (first four rows) in Informative Appendix E. Also, delete columns 2 and 3 of Table E-1 (under “Approx. Std. 52.1 Results”) for the remaining MERV. See attached revisions to Table E-1 highlighted in red text.
(Note: additions are shown in underline and deletions are shown in ~~striketrough~~.)

- 53*** **J11.3.3.** In Section J11.3.3 change the reference to “Table I-2” to “Table J-2”.

TABLE E-1 Application Guidelines

Std. 52.2 Minimum Efficiency Reporting Value (MERV)	Approx. Std. 52.1 Results		Application Guidelines		
	Dust Spot Efficiency	Arrestance	Typical Controlled Contaminant	Typical Applications and Limitations	Typical Air Filter/Cleaner Type
20	n/a	n/a	≤0.30 µm Particle Size Virus (unattached)	Cleanrooms Radioactive materials	HEPA/ULPA Filters ≥99.999% efficiency on 0.10–0.20 µm particles, IEST Type F
19	n/a	n/a	Carbon dust Sea salt	Pharmaceutical manufacturing	≥99.999% efficiency on 0.30 µm particles, IEST Type D
18	n/a	n/a	All combustion smoke Radon progeny	Carcinogenic materials Orthopedic surgery	≥99.99% efficiency on 0.30 µm particles, IEST Type C ≥99.97% efficiency on 0.30 µm particles, IEST Type A
16	n/a	n/a	0.30–1.0 µm Particle Size All bacteria	Hospital inpatient care General surgery	Bag Filters Nonsupported (flexible) microfine fiberglass or synthetic media. 300 to 900 mm (12 to 36 in.) deep, 6 to 12 pockets.
15	>95%	n/a	Most tobacco smoke Droplet nuclei (sneeze)	Smoking lounges Superior commercial buildings	Box Filters Rigid style cartridge filters 150 to 300 mm (6 to 12 in.) deep may use lofted (air laid) or paper (wet laid) media.
14	90%–95%	>98%	Cooking oil Most smoke		
13	80%–90%	>98%	Insecticide dust Copier toner Most face powder Most paint pigments		
12	70%–75%	>95%	1.0–3.0 µm Particle Size Legionella	Superior residential Better commercial buildings	Bag Filters Nonsupported (flexible) microfine fiberglass or synthetic media. 300 to 900 mm (12 to 36 in.) deep, 6 to 12 pockets.
11	60%–65%	>95%	Humidifier dust Lead dust	Hospital laboratories	Box Filters Rigid style cartridge filters 150 to 300 mm (6 to 12 in.) deep may use lofted (air laid) or paper (wet laid) media.
10	50%–55%	>95%	Milled flour Coal dust		
9	40%–45%	>90%	Auto emissions Nebulizer drops Welding fumes		
8	30%–35%	>90%	3.0–10.0 µm Particle Size Mold	Commercial buildings Better residential	Pleated Filters Disposable, extended surface, 25 to 125mm (1 to 5 in.) thick with cotton-polyester blend media, cardboard frame.
7	25%–30%	>90%	Spores Hair spray	Industrial workplaces Paint booth inlet air	Cartridge Filters Graded density viscous coated cube or pocket filters, synthetic media Throwaway Disposable synthetic media panel filters
6	<20%	85%–90%	Fabric protector Dusting aids		
5	<20%	80%–85%	Cement dust Pudding mix Snuff Powdered milk		
4	<20%	75%–80%	>10.0 µm Particle Size Pollen	Minimum filtration Residential	Throwaway Disposable fiberglass or synthetic panel filters Washable Aluminum mesh, latex coated animal hair, or foam rubber panel filters
3	<20%	70%–75%	Spanish moss Dust mites	Window air conditioners	Electrostatic Self charging (passive) woven polycarbonate panel filter
2	<20%	65%–70%	Sanding dust Spray paint dust		
1	<20%	<65%	Textile fibers Carpet fibers		

Note: A MERV for other than HEPA/ULPA filters also includes a test airflow rate, but it is not shown here because it has no significance for the purposes of this table.