**ERRATA SHEET FOR ANSI/ASHRAE/ASHE STANDARD 170-2021**
**Ventilation of Health Care Facilities**

**May 10, 2024**

The corrections listed in this errata sheet apply to ANSI/ASHRAE/ASHE Standard 170-2021. The first printing is identified on the outside back cover as "Product code: 86536 3/21". Shaded items have been added since the previously published errata sheet dated October 3, 2023 was distributed.

| Page | Erratum |
|---|---|
| 9 | **6.3.2.1 General.** Revise the Exception to 6.3.2.1(a) as shown below.<br>*(Note: Deletions are shown in ~~strikethrough~~.)*<br><br>**6.3.2 Exhaust Discharges**<br><br>**6.3.2.1 General.** Exhaust discharge outlets that discharge air from AII rooms, bronchoscopy and sputum collection and pentamidine administration rooms, emergency department public waiting areas, nuclear medicine hot labs, radiology waiting rooms programmed to hold patients who are waiting for chest x-rays for diagnosis of respiratory disease, pharmacy hazardous-drug exhausted enclosures, and laboratory work area chemical fume hoods shall<br><br>a. be designed so that all ductwork within the building is under negative pressure.<br><br>**Exception to 6.3.2.1(a):** Ductwork located within mechanical equipment rooms. Positive-pressure exhaust ductwork located within mechanical equipment rooms shall be sealed in accordance with SMACNA duct ~~leakage~~ Seal Class A[2].<br>[…] |
| 14 | **Table 7-1 Design Parameters—Inpatient Spaces.** In Table 7-1 change the heading "NURSING UNITS AND OTH & ER PATIENT CARE AREAS" to "NURSING UNITS AND OTHER PATIENT CARE AREAS". |
| 15 | **Table 7-1 Design Parameters—Inpatient Spaces.** In Table 7-1 for Radiology waiting rooms change the FGI reference from *(FGI 2.2–3.4.10.1)* to *(FGI 2.2–3.5.10.1)* as shown in the attached. Changes highlighted in yellow.<br>*(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)* |
| 15 | **Table 7-1 Design Parameters—Inpatient Spaces.** In Table 7-1 for Seclusion room in Behavioral and Mental Health Facilities change Minimum Outdoor ach to 2 and Minimum Total ach to 4 as shown in the attached. Changes highlighted in yellow.<br>*(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)* |
| 23 | **7.4.1 Operating Rooms (ORs), Operating/Surgical Cystoscopic Rooms, Caesarean Delivery Rooms, and Class 3 Imaging Rooms.** In Section 7.4.1 delete item "c" and re-letter item "d" as "c" as shown below.<br>*(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)*<br><br>[…]<br>~~c. In operating rooms designated for orthopedic procedures, transplants, neurosurgery, or dedicated burn unit procedures, HEPA filters shall be provided.~~ |

c.~~d.~~ In ORs or Class 3 imaging rooms designated for orthopedic procedures, transplants, neurosurgery, or dedicated burn unit procedures, HEPA filters shall be provided and located in the air terminal device.

**26** **Table 8.1 Design Parameters – Specialized Outpatient Spaces.** For Sterilizer equipment room change the Air Recirculated by Means of Room Units listed in Table 8.1 from "No" to "NR" as shown in the attached. Changes highlighted in yellow.
*(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)*

**26** **Table 8-1 Design Parameters—Specialized Outpatient Spaces.** Remove the FGI reference for Specialty IC exam room in Table 8-1 as shown in the attached. Changes highlighted in yellow.
*(Note: Deletions are shown in ~~strikethrough~~.)*

**29** **Table 8-2 Design Parameters—General Outpatient Spaces (q).** Remove the FGI reference for Specialty IC exam room in Table 8-2 as shown in the attached. Changes highlighted in yellow.
*(Note: Deletions are shown in ~~strikethrough~~.)*

**33** **Table 9-1 Design Parameters for Residential Health, Care, and Support-Specific Spaces.** In Table 9-1 revise all Design Temperature ranges "70-78 °F/21-29 °C" to "70-78 °F/21-26 °C" as shown in the attached Table 9-1. Changes highlighted in yellow.
*(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)*

**Table 7-1 Design Parameters—Inpatient Spaces (*Continued*)**

| Function of Space (ee) | Pressure Relationship to Adjacent Areas (n) | Minimum Outdoor ach | Minimum Total ach | All Room Air Exhausted Directly to Outdoors (j) | Air Recirculated by Means of Room Units (a) | Unoccupied Turndown | Minimum Filter Efficiencies (cc) | Design Relative Humidity (k), % | Design Temperature (l), °F/°C |
|---|---|---|---|---|---|---|---|---|---|
| Radiology waiting rooms ~~*(FGI 2.2–3.5.10.1 3.4.10.1)*~~ | Negative | 2 | 12 | Yes (q), (w) | NR | Yes (ff) | MERV-8 | Max 60 | 70–75/21–24 |

**Table 7-1 Design Parameters – Inpatient Spaces (*Continued*)**

| Function of Space (ee) | Pressure Relationship to Adjacent Areas (n) | Minimum Outdoor ach | Minimum Total ach | All Room Air Exhausted Directly to Outdoors (j) | Air Recirculated by Means of Room Units (a) | Unoccupied Turndown | Minimum Filter Efficiencies (cc) | Design Relative Humidity (k), % | Design Temperature (l), °F/°C |
|---|---|---|---|---|---|---|---|---|---|
| BEHAVIORAL AND MENTAL HEALTH FACILITIES (k) | | | | | | | | | |
| Seclusion room *(FGI 2.1–2.4.3 & 2.2–2.12.4.3)* | NR | ~~4~~ 2 | ~~2~~ 4 | NR | NR | Yes | MERV-8 | NR | NR |

**Table 8-1 Design Parameters—Specialized Outpatient Spaces**

| Function of Space (f) | Pressure Relationship to Adjacent Areas (n) | Minimum Outdoor ach | Minimum Total ach | AII Room Air Exhausted Directly to Outdoors (j) | Air Recirculated by Means of Room Units (a) | Minimum Filter Efficiencies (c) | Design Relative Humidity (k), % | Design Temperature (l), °F/°C |
|---|---|---|---|---|---|---|---|---|
| DIAGNOSTIC AND TREATMENT *(Continued)* | | | | | | | | |
| Specialty IC exam room ~~*(FGI 2.1–3.2.1.3)*~~ (y) | Negative | 2 | 6 | Yes | NR | MERV-8 | Max 60 | 70–75/21–24 |

**Table 8-1 Design Parameters—Specialized Outpatient Spaces**

| Function of Space (f) | Pressure Relationship to Adjacent Areas (n) | Minimum Outdoor ach | Minimum Total ach | All Room Air Exhausted Directly to Outdoors (j) | Air Recirculated by Means of Room Units (a) | Minimum Filter Efficiencies (c) | Design Relative Humidity (k), % | Design Temperature (l), °F/°C |
|---|---|---|---|---|---|---|---|---|
| **STERILE PROCESSING** (aa) | | | | | | | | |
| Sterilizer equipment room *(FGI 2.1-4.3.2.2)* | Negative | NR | 10 | Yes | NR ~~No~~ | MERV-8 | NR | NR |

**Table 8-2 Design Parameters—General Outpatient Spaces (q)**

| | | ach Design Option | | | | | | | $R_p$-$R_a$ Air-Class Design Option | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Function of Space (f) | Pressure Relationship to Adjacent Areas (d) | Min. Outdoor ach (q) | Min. Total ach (q) | All Room Air Exhausted Directly to Outdoors (j) | Air Recirculated by Means of Room Units (a) | Min. Filter Efficiencies (c) | Design RH% (i) | Design Temperature °F/°C (k) | Air Class (q) | $R_p$ cfm/(L·s)/ person and Min. Space Population (q) | $R_a$ cfm/ft/(L·s/m) (q) |
| GENERAL DIAGNOSTIC AND TREATMENT | | | | | | | | | | | |
| Specialty IC exam room ~~*(FGI 2.5-3.2.3)*~~ (b) | Negative | 2 | 3 | Yes | NR | MERV-8 | Max 60 | 70–75/21–24 | 3 | 10 (5) / 3 | 0.18 / (0.9) |

**Table 9-1 Design Parameters for Residential Health, Care, and Support-Specific Spaces**

| Function of Space (f) | | Pressure Relationship to Adjacent Areas (n) | Minimum Outdoor ach | Minimum Total ach | AII Room Air Exhausted Directly to Outdoors (j) | Air Recirculated by Means of Room Units (a) | Minimum Filter Efficiencies (c) | Design Relative Humidity (k), % | Design Temperature (l), °F/°C |
|---|---|---|---|---|---|---|---|---|---|
| RESIDENTIAL HEALTH NURSING HOMES | | | | | | | | | |
| AII room *(FGI 3.1–2.2.4.1)* (b) | Negative | 2 | 12 | Yes | No | Yes | MERV-14 | Max 60 | 70–78/21–26~~29~~ |
| AII anteroom *(FGI 3.1–2.2.4.1)* (b) | Negative | NR | 10 | Yes | No | Yes | MERV-14 | Max 60 | 70–78/21–26~~29~~ |
| Occupational therapy *(FGI 3.1–3.3.3)* | NR | 2 | 6 | NR | NR | Yes | MERV-14 | NR | 70–78/21–26~~29~~ |
| Physical therapy *(FGI 3.1–3.3.2)* | Negative | 2 | 6 | NR | NR | Yes | MERV-14 | NR | 70–78/21–26~~29~~ |
| Resident living/activity/dining *(FGI 3.1–2.3.3)* | NR | 4 | 4 | NR | NR | Yes | MERV-14 | Max 60 | 70–78/21–26~~29~~ |
| Resident room *(FGI 3.1–2.2.2)* | NR | 2 | 2 | NR | NR | Yes | MERV-14 | Max 60 | 70–78/21–26~~29~~ |
| Resident corridor *(FGI 2.4–2.2.2)* | NR | NR | 4 | NR | NR | Yes | MERV-14 | NR | 70–78/21–26~~29~~ |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Toilet/bathing room *(FGI 3.1–2.2.2.6)* | Negative | NR | 10 | Yes | No | No | MERV-14 | NR | 70–78/21–26~~29~~ |
| HOSPICE FACILITIES | | | | | | | | | |
| AII room *(FGI 3.2–2.2.3.1)* (c) | Negative | 2 | 12 | Yes | No | Yes | MERV-14 | Max 60 | 70–75/21–24 |
| AII anteroom *(FGI 3.2–2.2.3.1)* (c) | (e) | NR | 10 | Yes | No | Yes | MERV-8 | Max 60 | NR |
| Resident room *(FGI 3.2–2.2.2)* | NR | 2 | 2 | NR | NR | Yes | MERV-8 | Max 60 | 70–75/21–24 |
| Resident corridor *(FGI 2.4–2.2.2)* | NR | NR | 4 | NR | NR | Yes | MERV-8 | NR | NR |
| Toilet/bathing room *(FGI 3.2–2.2.2.6)* | Negative | NR | 10 | Yes | No | Yes | MERV-8 | NR | 70–75/21–24 |
| RESIDENTIAL CARE AND SUPPORT | | | | | | | | | |
| ASSISTED LIVING FACILITIES | | | | | | | | | |
| Resident living/activity/dining *(FGI 4.1–2.3.3)* | NR | NR | NR | NR | NR | Yes | MERV-8 | NR | NR |
| Resident room *(FGI 4.1–2.2.2)* | NR | NR | NR | NR | NR | Yes | MERV-8 | NR | 70–78/21–26~~29~~ |
| Resident corridor *(FGI 2.4–2.2.2)* | NR | NR | NR | NR | NR | Yes | MERV-8 | NR | NR |
| Toilet/bathing room *(FGI 4.1–2.2.2.7)* | NR | NR | NR | NR | NR | Yes | MERV-8 | NR | NR |
| SERVICE | | | | | | | | | |
| Clean linen storage *(FGI 2.3–4.6)* | Positive | NR | 2 | NR | NR | No | MERV-8 | NR | 72–78/22–26 |
| Dietary storage *(FGI 2.3–4.5)* | NR | NR | 2 | NR | No | No | MERV-8 | NR | 72–78/22–26 |
| Food preparation center *(FGI 2.3–4.5.3.3)* (e) | NR | 2 | 10 | NR | No | Yes | MERV-8 | NR | 72–78/22–26 |
| Hair salon *(FGI 2.3–2.3.5 & 4.1–2.3.5)* | Negative | NR | 10 | Yes | NR | Yes | MERV-8 | NR | 70–78/21–26~~29~~ |
| Laundry, central and personal *(FGI 2.3–4.2.7)* | Negative | 2 | 10 | Yes | No | No | MERV-8 | NR | NR |
| Linen and trash chute room *(FGI 2.3–4.6 & 2.3–4.9)* | Negative | NR | 10 | Yes | No | No | MERV-8 | NR | NR |
| Medication room *(FGI 2.3–4.2.2.2)* | NR | 2 | 4 | NR | NR | Yes | MERV-8 | Max 60 | 70–75/21–24 |
| Soiled linen sorting and storage *(FGI 2.3–4.6)* | Negative | NR | 10 | Yes | No | No | MERV-8 | NR | NR |
| Warewashing *(FGI 2.3–4.5.3.6)* | Negative | NR | 10 | Yes | No | Yes | MERV-8 | NR | NR |
| SUPPORT SPACE | | | | | | | | | |
| Clean utility *(FGI 2.3–4.2.5)* | Positive | 2 | 4 | NR | NR | No | MERV-8 (k) | NR | NR |
| Environmental services room *(FGI 2.3–4.9)* (j) | Negative | NR | 10 | Yes | NR | No | MERV-8 | NR | NR |
| Hazardous waste storage *(FGI 2.3–4.8)* | Negative | 2 | 10 | Yes | No | No | MERV-8 | NR | NR |
| Soiled utility or soiled holding *(FGI 2.3–4.2.6)* | Negative | 2 | 10 | Yes | No | No | MERV-8 | NR | NR |