

**Errata to
ASHRAE Pocket Guide, 8th edition
I-P Edition (2013)**

December 6, 2017

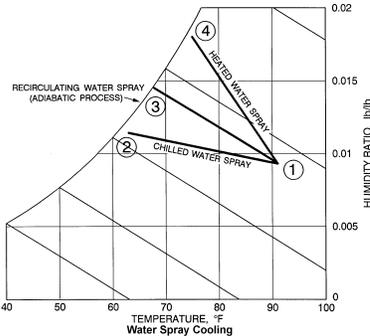
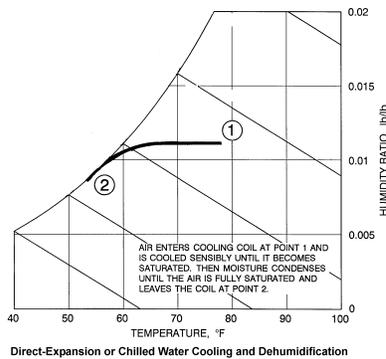
Shaded items have been added since the previously published errata sheet dated July 21, 2015.

Page viii:

Add the following sentence to the end of the preface: **“Complete entries for all references cited in tables and figures are available in the original source publications.”**

Page 16:

The top and middle figures on this page are missing values on the axes. Please use the following figures.



Page 18:

Table 1.12 reads “Enthalpy of Moist Air at Standard Atmospheric Pressure” for the table title and “Enthalpy, Btu/lb_{da}” as one of the main headings but should read **“Specific Enthalpy of Moist Air at Standard Atmospheric Pressure”** for the table title and **“Specific Enthalpy, Btu/lb_{da}”** for the main heading.

Page 19:

In Table 1.14, the heading for the first column currently reads “Equiv. Dew Pt F” but should read **“Equiv. Dew Pt °F”**.

Page 40:

Table 2.4, in the row for “Organic Vapors” and the column for “Typical Outdoor Concentration,” reads “See Table 11” but should read **“See 2013F, Ch 11, Tbl 11.”**

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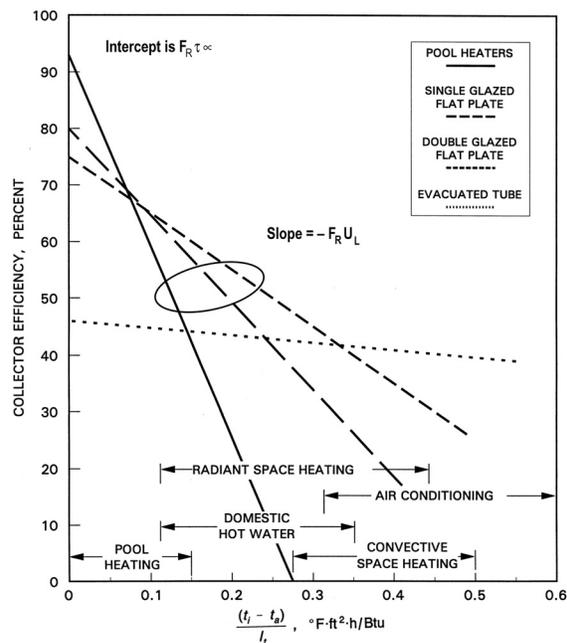


Page 60: There are two figures designated “Figure 3.4” on this page. Please mark the figure at the top of the page as “Figure 3.3”.

Page 69: Twice after the equation on this page the text reads “following tables” but should read “**Tables 3.9 to 3.14.**”

Page 72: The title of Table 3.11 reads “Summary of *K* Values for Reducers and Expansions” but should read “Summary of *K* **Factors** for Reducers and Expansions,” and the title of Table 3.12 reads “Summary of Test Data for Pipe Tees” but should read “Summary of *K* **Factors** for Pipe Tees.”

Page 101: Figure 7.1 is missing information for intercept and slope. Please use the revised figure below.



Page 104: Figures 7.4 and 7.5 are incorrectly cited. For Figure 7.4, “2012A, Ch 33, Fig 27” should read “**2011A, Ch 35, Fig 27**”, and for Figure 7.5, “2012A, Ch 33, Fig 28” should read “**2011A, Ch 35, Fig 28**”.

Page 105: Figures 7.6 and 7.7 are incorrectly cited. For Figure 7.6, “2012A, Ch 33, Fig 25” should read “**2011A, Ch 35, Fig 25**”, and for Figure 7.7, “2012A, Ch 33, Fig 26” should read “**2011A, Ch 35, Fig 26**”.

Page 166: The equation for number 3 currently reads “ $Q_3 = mc_2(t_f - t_2)$ ” but should read “ $Q_3 = mc_2(t_f - t_3)$ ”.

Page 167: Under the heading “Infiltration Air Load,” the second equation is missing a definition for *H*. Please add the following after the definition for *W*: “***H* = doorway height, ft**”.

- Page 170:** In the sixth paragraph, the first sentence reads “For preliminary estimation of the cooling load, the figures herein are a very rough guide” but should read “For preliminary estimation of the cooling load, **the check values in Table 12-1** are a very rough guide.”
- Page 172:** The title of Table 12.1 reads “Cooling Load Figures” but should read “Cooling Load **Check Values.**”
- Page 175:** In footnote e to Table 12.3, the first sentence ends with “(see Table 2)” but should state “(see **2013F, Ch 26, Tbl 2.**)”
- Page 176:** In footnote 5 to Table 12.4, the first sentence ends with “(see Table 2)” but should state “(see **2013F, Ch 26, Tbl 2.**)”
- Page 184:** In footnote c of Table 12.8, the second sentence reads “...see Tables 2 and 3 for insulating value of airspace...” but should read “...see **2013F, Ch 26, Tbls 2 and 3** for insulating value of airspace....”
- Original page 193 (reprint page 191):** In Table 12.18, note 2 reads “Also see Table 4, Chapter 9” but should read “Also see **2013F, Ch 9, Tbl 4**” and footnote b reads “Values approximated from data in Table 6, Chapter 9...” but should read “Values approximated from data in **2013F, Ch 9, Tbl 6...**”
- Original page 194 (reprint page 192):** In the final paragraph on the page, the last sentence begins with “Table 12.15” but should read “Table **12.19**”.
- Original page 196 (reprint page 193):** In the Building-Specific Space Type column of Table 12.19, the first entry under Retail is missing a bracket. It should read “Sales area [for accent lighting, see.....”
- Original page 205 (reprint page 202):** The second sentence reads “In a laboratory, heat gain ranges from 15 to 70 Btuh/ft²” but should read “In a laboratory, heat gain ranges from 15 to 70 **Btu/h·ft²**” and the fourth sentence begins with “Table 12.21” but should read “**Table 12.27.**”
- Original pp. 216–18 (reprint pp. 213–15):** Table 6-1 from ASHRAE Standard 62.1-2010 was printed showing values for Area Outdoor Air Rate for “L/s·m²” instead of “cfm/ft²” and showing values for “#/100 m²” instead of “#/1000 ft².” The table is reproduced on the following pages showing the missing “cfm/ft²” and “#/1000 ft²” columns. [Or, to convert L/s·m² to cfm/ft², multiply by 0.1969.]
- Original page 228 (reprint page 224):** The table that begins on this page is designated “Table 13.5” but should be “Table **13.6**”.
- Original page 230 (reprint page 226):** The table on this page is designated as “Table 13.6” but should be “Table **13.7**”.

- Original page 236
(reprint page 232):** The last line of the first paragraph reads “...based on the dv/dt of the drive...” and the caption for Figure 12.1 reads “Motor Voltage Peak and dv/dt Limits”; in both instances “ dv/dt ” should be changed to “ dV/dt ”.
- Original page 277
(reprint page 273):** The first sentence of the notes to the table reads “in Table 47” but should read “in **2011A, Ch 48, Tbl 47.**”
- Original page 305
(reprint page 301):** In Table 25.3, the second sentence of footnote a reads “See Figures 21 to 23” but should read “See **2011A, Ch 34, Figs 21 to 23.**”
- Original page 311
(reprint page 307):** In the Notes to General Design Criteria, note d has a typo and note e is out of order. Note e should obviously follow note d. Note d currently ends with “may be satisfactory for patrons” but should include the phrase following note d as well. Thus, the final sentence of note d should read “**Although space conditions of 80°F and 50% rh may be satisfactory for patrons when it is 95°F and 50% rh outside, inside conditions of 78°F and 40% rh are better.**”

Table 6-1 Minimum Ventilation Rates in Breathing Zone
 (This table is not valid in isolation; it must be used
 in conjunction with the accompanying notes.)

Occupancy Category	People Outdoor Air Rate		Area Outdoor Air Rate		Default Values			Air Class
	R_p		R_a		Occupant Density (see Note 4)	Combined Outdoor Air Rate (see Note 5)		
	cfm/person	L/s person	cfm/ft ²	Notes		#/1000 ft ²	cfm/person	
Correctional Facilities								
Cell			0.12			25		
Dayroom			0.06			30		
Guard stations			0.06			15		
Booking/waiting			0.06			50		
Educational Facilities								
Daycare (through age 4)			0.18			25		
Daycare sickroom			0.18			25		
Classrooms (ages 5–8)			0.12			25		
Classrooms (age 9 plus)			0.12			35		
Lecture classroom			0.06			65		
Lecture hall (fixed seats)			0.06			150		
Art classroom			0.18			20		
Science laboratories			0.18			25		
University/college laboratories			0.18			25		
Wood/metal shop			0.18			20		
Computer lab			0.12			25		
Media center			0.12			25		
Music/theater/dance			0.06			35		
Multi-use assembly			0.06			100		
Food and Beverage Service								
Restaurant dining rooms			0.18			70		
Cafeteria/fast-food dining			0.18			100		
Bars, cocktail lounges			0.18			100		
Kitchen (cooking)			0.12			20		
General								
Break rooms			0.06			25		
Coffee stations			0.06			20		
Conference/meeting			0.06			50		
Corridors			0.06			—		
Occupiable storage rooms for liquids or gels			0.12			2		
Hotels, Motels, Resorts, Dormitories								
Bedroom/living room			0.06			10		
Barracks sleeping areas			0.06			20		
Laundry rooms, central			0.12			10		
Laundry rooms within dwelling units			0.12			10		
Lobbies/prefunction			0.06			30		
Multipurpose assembly			0.06			120		

Table 6-1 Minimum Ventilation Rates in Breathing Zone (Continued)

(This table is not valid in isolation; it must be used in conjunction with the accompanying notes.)

Occupancy Category	People Outdoor Air Rate		Area Outdoor Air Rate	Default Values			Air Class
	R_p			Occupant Density (see Note 4)	Combined Outdoor Air Rate (see Note 5)		
	cfm/person	L/s person	cfm/ft ²		Notes	#/1000 ft ²	
Office Buildings							
Breakrooms			0.12		50		
Main entry lobbies			0.06		10		
Occupiable storage rooms for dry materials			0.06		2		
Office space			0.06		5		
Reception areas			0.06		30		
Telephone/data entry			0.06		60		
Miscellaneous Spaces							
Bank vaults/safe deposit			0.06		5		
Banks or bank lobbies			0.06		15		
Computer (not printing)			0.06		4		
General manufacturing (excludes heavy industrial and processes using chemicals)			0.18		7		
Pharmacy (prep. area)			0.18		10		
Photo studios			0.12		10		
Shipping/receiving			0.12		2		
Sorting, packing, light assembly			0.12		7		
Telephone closets			0.00		—		
Transportation waiting			0.06		100		
Warehouses			0.06		—		
Public Assembly Spaces							
Auditorium seating area			0.06		150		
Places of religious worship			0.06		120		
Courtrooms			0.06		70		
Legislative chambers			0.06		50		
Libraries			0.12		10		
Lobbies			0.06		150		
Museums (children's)			0.12		40		
Museums/galleries			0.06		40		
Residential							
Dwelling unit			0.06		F		
Common corridors			0.06				
Retail							
Sales (except as below)			0.12		15		
Mall common areas			0.06		40		
Barbershop			0.06		25		
Beauty and nail salons			0.12		25		

Table 6-1 Minimum Ventilation Rates in Breathing Zone (Continued)

(This table is not valid in isolation; it must be used in conjunction with the accompanying notes.)

Occupancy Category	People Outdoor Air Rate		Area Outdoor Air Rate	Default Values			Notes	#/1000 ft ²	Air Class
	R_p			Occupant Density (see Note 4)	Combined Outdoor Air Rate (see Note 5)				
	cfm/person	L/s person	cfm/ft ²		cfm/person	L/s person			
Pet shops (animal areas)			0.18				10		
Supermarket			0.06				8		
Coin-operated laundries			0.12				20		
Sports and Entertainment									
Sports arena (play area)			0.30				—		
Gym, stadium (play area)			0.30				30		
Spectator areas			0.06				150		
Swimming (pool & deck)			0.48				—		
Disco/dance floors			0.06				100		
Health club/aerobics room			0.06				40		
Health club/weight rooms			0.06				10		
Bowling alley (seating)			0.12				40		
Gambling casinos			0.18				120		
Game arcades			0.18				20		
Stages, studios			0.06				70		