

Errata to
Thermal Guidelines for Data Processing Environments, Fifth Edition (2021)

May 31, 2022

*Note that the errata in this sheet have been incorporated into
Thermal Guidelines for Data Processing Environments, Fifth Edition Revised and Expanded, published in 2022.*

Reference Card: In Table 2.1, add the following two new columns of data to the bottom of the table:

| | | | | | | | |
|---|---------|-----------------------------|----|------|-----|---------|---------|
| B | 5 to 35 | 8% to 28°C DP and 80% rh | 28 | 3050 | N/A | 5 to 45 | 8 to 80 |
| C | 5 to 40 | 8% to 28°C DP and 80% rh | 28 | 3050 | N/A | 5 to 45 | 8 to 80 |

Reference Card: In the Notes for Table 2.1, Note a currently reads “Classes A3 and A4 are identical to...” but should read “**Classes A3, A4, B, and C** are identical to....”

Reference Card: In the Notes for Table 2.1, Note e currently reads “Classes A1 and A2—Derate...” but should read “**Classes A1, A2, B, and C**—Derate....”

Reference Card: In Table 2.2, in the “Allowable” section of the table, the Dry-Bulb Temp. value currently reads “5 to 25” but should read “**15 to 25**”.

Reference Card: In the Air Cooling Environmental Conditions and Class Definitions section, add the following two bullet points above the existing bullet point for Class H:

- **Class B:** Typically telecommunications spaces (entrance rooms, IT and equipment rooms), offices, and homes with minimal control of environmental parameters; types of products typically designed for this environment are LAN switches, office computers, personal computers, workstations, laptops, and printers.
- **Class C:** Typically telecommunications, point-of-sale, light industrial, or factory spaces with weather protection, sufficient winter heating and ventilation; types of products typically designed for this environment are telecommunication equipment, point-of-sales equipment, ruggedized controllers, and mobile devices.

Page xi: In the first sentence of the third paragraph of the Acknowledgments, change Jason Matteson’s company name from “Isotope” to “**Iceotope**”.

For online access to these errata as well as updates to other publications, visit www.ashrae.org/publicationupdates.

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Page 4: In the second paragraph under Section 1.3, the middle line currently reads “...air-cooling environmental classes A1, A2, A3, A4, and...” but should read “...air-cooling environmental classes A1, A2, A3, A4, **B, C**, and....”

Page 15: In Table 2.1, add the following two new columns of data to the bottom of the table:

| | | | | | | | |
|---|---------|-----------------------------|----|------|-----|---------|---------|
| B | 5 to 35 | 8% to 28°C DP and 80% rh | 28 | 3050 | N/A | 5 to 45 | 8 to 80 |
| C | 5 to 40 | 8% to 28°C DP and 80% rh | 28 | 3050 | N/A | 5 to 45 | 8 to 80 |

Page 16: In the Notes for Table 2.1, Note a currently reads “Classes A3 and A4 are identical to...” but should read “Classes **A3, A4, B, and C** are identical to....”

Page 16: In the Notes for Table 2.1, Note e currently reads “Classes A1 and A2—Derate...” but should read ““Classes **A1, A2, B, and C**—Derate....”

Page 17: In Section 2.2.1, add the following two bullet points below the existing bullet points:

- **Class B:** Typically telecommunications spaces (entrance rooms, IT and equipment rooms), offices, and homes with minimal control of environmental parameters; types of products typically designed for this environment are LAN switches, office computers, personal computers, workstations, laptops, and printers.
- **Class C:** Typically telecommunications, point-of-sale, light industrial, or factory spaces with weather protection, sufficient winter heating and ventilation; types of products typically designed for this environment are telecommunication equipment, point-of-sales equipment, ruggedized controllers, and mobile devices.

Page 22: In Table 2.2, in the “Allowable” section of the table, the Dry-Bulb Temp. value currently reads “5 to 25” but should read “**15 to 25**”.

Page 84: In Table B.1, add the following two new columns of data to the bottom of the table:

| | | | | | | | |
|---|-----------|-------------------------------|------|--------|-----|-----------|---------|
| B | 41 to 95 | 8% to 82.4°F DP and 80% rh | 82.4 | 10,000 | N/A | 41 to 113 | 8 to 80 |
| C | 41 to 104 | 8% to 82.4°F DP and 80% rh | 82.4 | 10,000 | N/A | 41 to 113 | 8 to 80 |

Page 85: In the Notes for Table B.1, Note a currently reads “Classes A3 and A4 are identical to...” but should read “Classes **A3, A4, B, and C** are identical to....”

Page 85: In the Notes for Table B.1, Note e currently reads “Classes A1 and A2—Derate...” but should read ““Classes **A1, A2, B, and C**—Derate....”

Page 148: The first sentence of the last paragraph on the page currently reads “Figures L.2 through L.7 show...” but should read “Figures L.2 through **L.9** show....”

Page 149: Beneath Figure L.5, remove the erroneous “(a)” and “(b)” denoting two parts of the figure. (There is only the one part of Figure L.5.)

Page 149: Add two new figures, Figures L.8 and L.9, as follows:

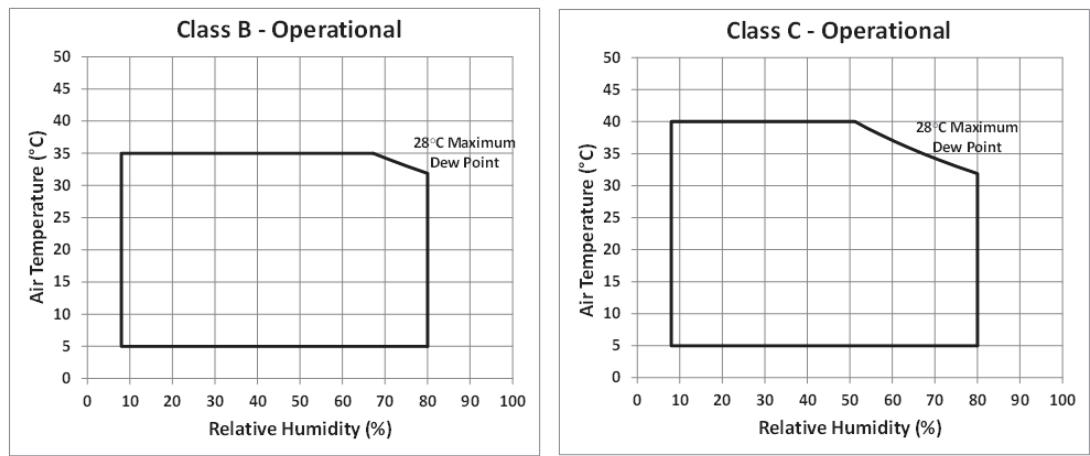


Figure L.8 Class B and Class C operation climatograms.

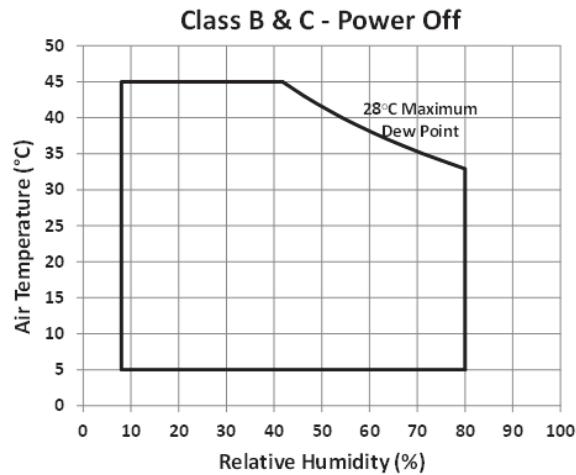


Figure L.9 Classes B and Class C power-off climatogram.