Environmental Specifications for Data Center Facilities
Computing & Communications Services - California State University, Chico

Requirements for Data Center Facilities

Room temperature should be maintained in the range 64°F - 81°F with a maximum rate of change per hour of 9°F.

The relative humidity should be a maximum of 60%.

Positive pressure should be maintained at all times to prevent the introduction of contaminants.

Temperature, and humidity requirements are on a 24-hour, 7 day-a-week basis regardless of the heat generated by normally operating communication equipment.

Relevant Specifications Documents (Data Center Facilities)

- BICSI 002 (Data Center Design and Implementation Best Practices) 2019
- TIA-942-B (Telecommunications Infrastructure Standards for Data Centers) 2017
  - 64°F – 81°F @ 60% RH
  - Max dewpoint of 59°F, minimum dewpoint of 42°F
  - Maximum rate of change per hour: 9°F

Equipment Specific Requirements (Operating Temperatures)

- Alcatel/Lucent Routers & Switches Acceptable Temperature Range: 32°F - 113°F
- Aruba Networks Controllers Acceptable Temperature Range: 32°F - 104°F
- Avaya PBX Gateway Acceptable Temperature Range: 32°F - 104°F
- Dell Servers & Blade Chassis Acceptable Temperature Range: 50°F - 95°F
- Liebert NX UPS Unit Acceptable Temperature Range: 32°F - 104°F
- NetApp Storage Systems Acceptable Temperature Range: 50°F - 95°F
- Palo Alto Network Firewalls Acceptable Temperature Range: 32°F - 122°F

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