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FMADIO Operating Condition Requirements

Cabling

All power and data cables must be properly connected and not blocking the chassis airflow.

Regular FMADIO Production Firmware updates must be installed in a timely manner.

Ambient Operating Temperature

An ambient temperature range of 21 to 23 °C (70 to 74 °F) is required for optimal server reliability. While most computer equipment can operate within a rather broad range, a temperature level near 22 °C (72 °F) is desirable because it is easier to maintain a safe associated relative humidity level at this temperature. Further, this required temperature range is expected to provide an operational buffer in case the environmental support systems are down.

Air Intake Temperatures

The operating temperature range for the servers is 10 to 28 °C. These temperatures apply to the air taken in by each server at the point where the air enters the server, and is not necessarily the same temperature of the air in the aisles. You must ensure that the air intake temperature is within the operating range of the server. Regular monitoring is recommended.

Reduced Airflow

Equipment must be mounted into a rack so that the amount of airflow required for safe operation is not compromised.

Mechanical Loading

Equipment must be mounted into a rack so that a hazardous condition does not arise due to uneven mechanical loading.

Circuit Overloading

Consideration should be given to the connection of the equipment to the power supply circuitry and the effect that any possible overloading of circuits might have on overcurrent protection and power supply wiring.

Appropriate consideration of equipment nameplate ratings must be used when addressing this concern.

Reliable Ground

A reliable ground must be maintained at all times. To ensure this, the rack itself should be grounded. Particular attention must be given to power supply connections other than the direct connections to the branch circuit (i.e. the use of power strips, etc.).

Operating Environment

Operating Temperature: 10° to 28° C (50° to 82° F)

Non-operating Temperature: -40° to 70° C (-40° to 158° F)

Operating Relative Humidity: 20% to 60%

(non-condensing)

Non-operating Relative Humidity: 5 to 95%

(non-condensing)