

Data Center Room Environment Requirements



Overview

EN 50600: The European standard EN 50600 defines requirements and recommendations for the planning, construction and operation of data centers. It covers topics such as site selection, building design, energy supply, cooling, security and availability. Reduce energy use by making systems as efficient as possible – the associated data center metric is Power Usage Effectiveness (PUE). Use these environmental design criteria to ensure that your data center environment provides optimal conditions for your server operation. For information, see Section 3. 5, “Ventilation and Cooling Requirements”. Does the computer room air handling meet temperature and humidity requirements?

Does the installation floor layout satisfy the. As of 2008, ASHRAE standards recommend a data center temperature range between 65 and 80 degrees Fahrenheit (18-27°C). The recommended range for A1 to A4 class hardware is 18°C to 27°C (64.



Article Content

Oct 23, 2025

10 Requirements For Building A Secure Server Room Data Center

What is required to build a server room? Here we list the 10 main requirements and standards for building a secure server room, they are also working for data center and computer room.

Dec 26, 2025

Key Data Center Design Standards, From NFPA to

Discover how data center design standards enhance your center's efficiency, reliability, & sustainability while meeting energy & environmental

May 10, 2026

A.3 Data Center Environmental Checklist

Complete the following checklist to ensure that the data center environment requirements are met. For information, see Section 3.5, "Ventilation and Cooling Requirements".

Nov 28, 2025

ASHRAE Recommended Data Center Temperature

ASHRAE Recommended Data Center Temperature & Humidity The technology and computer equipment found in data centers can be very sensitive to environmental

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Server room guidelines and standards

These server room guidelines and standards form the basis for the construction of data centers in Europe. The design of the server rooms and regulations ensure that they meet the highest

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Server Room Audits and Data Centre Design Standards

A blog post on data centre design standards and how to audit against them to deliver best practice and improve resilience by Server Room Environments.

Apr 08, 2026

ASHRAE TC9.9 Data Center Power Equipment Thermal Guidelines

1. Introduction Changing data center environmental conditions are of importance to IT equipment but also to power equipment, especially where the two types of equipment share the same physical

Dec 18, 2025

Thermal Guidelines and Temperature Measurements in Data Centers

Abstract This document initially develops a list of generalized thermal best-practice recommendations as a first step towards temperature management and measurements in data

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Facility Considerations for the Data Center

Introduction Data center managers are embracing trends that better align IT with business strategies, increase operational effectiveness, and provide a technology platform for continued growth. The

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Facilities Design for High-density Data Centers

Facilities Design for High-density Data Centers We have enabled high density computing and lowered facility costs by adopting a proactive server refresh strategy and investing in the latest generation

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General guidelines for data centers

The most important requirement is to ensure that the inlet air temperature to the front of the equipment does not exceed IBM® environmental specifications. See the environmental requirements in the

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Environmental design criteria

Use these environmental design criteria to ensure that your data center environment provides optimal conditions for your server operation.

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5 Essential Data Center Environment Requirements

Contact Universal Electrical Services for data center solutions The UES team brings decades of electrical experience to multiple industries

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ASHRAE TC9.9 Data Center Power Equipment Thermal Guidelines

Figure 2 above shows an example of a typical data center facility space plan. Most data centers have four types of vironmental areas: ballroom spaces, hot aisles, cold aisles, and grey areas. Many data

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What are the ASHRAE guidelines for data center temperature and

What are the ASHRAE guidelines for data center temperature and humidity control? The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) provides comprehensive

Oct 04, 2025

Five questions on data center environmental monitoring

Our expert explains how to maintain ideal conditions for your server room using data center environmental monitoring tools and techniques.

Sep 25, 2025

Data Center Environmental Standards: A Guide | DataSpan

There are many environmental standards regarding data centers. Learn or request more information on these standards what controls can help you

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What is the correct temperature for a server room?

NB: It is important to note there are a lot more factors to consider in a server/data room than just the temperature, air flow & humidity for example are also important

Apr 23, 2026

Best Practices Guide for Energy-Efficient Data Center Design

This guide provides an overview of best practices for energy-efficient data center design which spans the categories of information technology (IT) systems and their environmental conditions, data center

Mar 18, 2026

ISO 14644 standards: Cleanroom guidelines for data

Discover how ISO 14644 cleanroom standards set guidelines for proper cleanliness and maintenance practices in controlled environments, such

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Recommended standards for monitoring server rooms

On this page you will find the standards recommended by ASHRAE for monitoring the environment in your data center or server room. The settings below apply to

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Understanding the impact of data center noise pollution

Explore the impact of data center noise pollution on communities, health and the environment, and discover methods to mitigate this growing concern.

Apr 05, 2026

ASHRAE Data Center Temperature & Humidity

Understanding ASHRAE Data Center Temperature & Humidity Guidelines
Infrastructure is everywhere, and data centers are at the heart of

Sep 30, 2025

Ultimate GUIDE to Data Center Room DESIGN TIPS

Understanding the importance and complexity of data center room design is essential for IT managers, architects, and business stakeholders. This article explores the key aspects and best practices to

Oct 03, 2025

How to Design and Build a Data Center

Take on data center design by factoring in these considerations, including space, power, cooling, performance, security, management and future

Contact Us

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