



High-density modular data center flame-retardant stock available now

Article Overview

Flame-retardant modular data center solutions, including raised floors and rack-level cooling units, are available now from suppliers like Lingding Technology and Flex.

Flame-Retardant Raised Flooring

Shenzhen Lingding Technology Co., Ltd. specializes in modular raised access flooring for data centers, offices, and commercial spaces. Their products feature HPL/PVC surfaces with full steel construction, providing flame-retardant and anti-static (ESD) properties suitable for high-density server environments. Lingding offers customizable designs, load ratings, and ventilated options, ensuring compatibility with specific project requirements. These floors are widely used in data centers, hospitals, clean rooms, and other facilities requiring safety and durability, and are available for immediate procurement .

Modular Cooling Solutions

Flex has launched its Modular Rack-Level Cooling Distribution Unit (CDU), designed for high-density AI, HPC, and hyperscale workloads. These units are available immediately, providing scalable liquid cooling from 2 to 6 CDUs per rack, supporting up to 1.8 MW per rack. The system allows incremental capacity expansion, preserving rack space and operational efficiency. Flex also offers standard and custom manifold options, making it suitable for modular data center deployments requiring high-density cooling .

Fully Integrated Modular Data Centers

Siemens, Cadolto, and Legrand provide prefabricated, plug-and-play modular data center modules that can be configured, installed, expanded, and relocated quickly. These solutions support high-density AI workloads and are designed for fast deployment with planning cycles of six to twelve months. While stock availability may vary, these modules are engineered for rapid deployment and scalability, complementing flame-retardant infrastructure like raised floors and liquid cooling systems .

Key Considerations

- o Safety: Ensure all flooring and structural components meet flame-retardant standards. Lingding's HPL/PVC raised floors are certified for fire resistance.
- o Cooling: High-density racks require liquid or hybrid cooling; Flex's modular CDUs provide immediate solutions.
- o Scalability: Modular units allow incremental expansion to match evolving AI or HPC workloads.
- o Integration: Combining flame-retardant flooring with modular cooling and prefabricated data center modules



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ensures a safe, high-performance environment. For immediate deployment, Lingding raised floors and Flex modular CDUs are currently in stock and ready for procurement, making them suitable for high-density, flame-retardant modular data center projects .

Modular data centers offer fresh opportunities for the industry, but that doesn't mean they are right for every occasion.

Importance of Flame Retardant Coatings Data centers house high-value IT infrastructure and are subject to strict fire

Our Projects Scalable, Turnkey Data Centers for Next-Gen Workloads Edge Modular delivers modular data centers engineered for AI

Understanding data center core concepts Before diving into the specifics of high-density data centers, it's important to understand the

The Modular Rack-Level CDU is available now, providing data center operators with an immediate solution for

Hydria: Low-carbon high-density data centers. The future of efficient and eco-friendly computing. Explore our unique offering.

Learn how Orbis® DLP and ILP clean agent systems provide fast, localized fire protection

Data centers are particularly prone to fire, given the high energy density and the nature of the materials present. The most common

The Prefabricated Modular EcoStruxure Pod Data Centre is now shipping pre-designed and pre-assembled with all

Coolnet Micro Modular Data Center offers modular design, intelligent fire control,

Built on flexible 2.5MW building blocks with a pay-as-you-grow architecture, GigaModular(TM) enables faster deployment, phased

A modular data center is a quick, flexible, and cost-effective way to boost your data storage.

5 Key Components in Data Centers That Require Flame-Retardant Plastics In the fast-growing world of cloud



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computing, AI

HPE Data Center Solutions help modernize IT with high-performance infrastructure for AI, cloud, and enterprise workloads. Choose

At Viking, we understand that the adequate fire protection solution depends on several factors, for example the data center type. An

Data center insights Fire protection in data centers focuses on resistant materials, clean agent systems and early

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