

# High-precision cold aisle data center in Uganda



## Overview

The \$150 million facility, designed for cloud computing, AI workloads, and enterprise-scale services, is planned with a 44MW power capacity across two phases and high-density, GPU-ready racks. Engineers target a PUE of less than 1. 999% uptime, signaling resilience for. Africa has inaugurated its first Artificial Intelligence (AI) data center, a landmark project that aims to repatriate African data from foreign servers, strengthen data sovereignty, and position the continent as a global hub for digital innovation. The facility, spearheaded by Synectics. This report highlights the key trends shaping Uganda's data centre market, the challenges facing businesses and operators, and the opportunities poised to unlock national and regional growth. Gain exclusive insights into Uganda's rapidly evolving data centre landscape with our State of Data Centres in Uganda 2024 report. As Uganda's first carrier-grade, Tier III certified, carrier- and cloud-neutral facility, Raxio is. The Aeonian Project, a 100MW hyperscale facility inside the 600MW Karuma Hydropower Plant on the River Nile, will redefine how African data is processed and applied. As per the report, the four core drivers of transformation: The upsurge in cloud.



## Article Content

Data Center Containment Best Practices: Key Considerations to

Cold aisle containment doesn't absolutely need to be on a raised floor, but it typically is because of challenges associated with delivering supply air to the contained space(s)

FOCUSED COOLING USING COLD AISLE CONTAINMENT

While either hot aisle or cold aisle containment systems can be installed and are both capable of increasing efficiency and cooling today's high heat data centers, meaningful differences exist in how

Africa Launches First AI Data Center in Uganda to Drive

Spanning over 80 acres, the facility will include an AI Center of Excellence under a Build-Operate-Transfer (BOT) model to ensure African

Raxio plots African growth with data center in Uganda

Data center developer Raxio has launched Uganda's first Tier III carrier-neutral data center and has a strong pipeline for a dozen more across

Server Room Containment Systems | Hot & Cold Dial Containment in Data ...

At Profile IT Solutions, we specialize in designing and implementing custom aisle containment solutions for data centers and server rooms. Whether you need cold aisle containment, hot aisle containment,

Raxio Data Center opens advanced facility in Uganda

Raxio Data Centre launches a state-of-the-art facility in Uganda to meet the increasing demand for secure and scalable data storage from private

Hot and cold aisle cooling containment

More frequently, data centers are using hot and/or cold aisle cooling containment solutions to help with managing airflow, eliminating hot spots and improving energy efficiency. In most cases, the rack

Data Center Design: Hot Aisle & Cold Aisle – Length

Efficient airflow management in data centers relies heavily on proper Hot Aisle and Cold Aisle configurations. To maintain thermal performance, equipment

Optimizing Data Center Cooling for Energy Efficiency

Disadvantages of Cold Aisle Containment Hotter Overall Room Temperature: The data center space outside the contained aisles becomes the

The State of Data Centres in Uganda – 2024

Raxio Uganda is Uganda's first carrier-grade, Tier III certified carrier-neutral data centre. At the heart of Namanve Industrial Park, Raxio Uganda is ideally located along key fibre routes and delivers best in

### Data Center Cooling

How are data centers cooled? find out in this video on how data centres are cooled. covering CRAC units, cold aisle containment, hot aisle containment, susp...

Westwood Uganda | The Data Center Experts | Racks and Enclosures ...

CoolTop Create a cold Isle CoolTop represents a family of precision cooling units specifically designed for installation on top of IT racks in server rooms and large data centers.

Raxio opens Tier III data center in Uganda

Raxio Data Centre has opened a new data center in Kampala, Uganda. The new Tier III certified facility in Kampala Industrial and Business Park

The Basics of Hot Aisle, Cold Aisle Data Center Configurations

Though hot aisle, cold aisle configurations have a number of variations, at their most simplest it consists of server racks in rows with cold air intakes facing one way and hot air exhausts

Approaches to Data Center Containment

The data center contains the cold aisle to keep the cold air in and the hot air out. In hot aisle containment, the hot aisle is contained so that the precision air

Raxio Launches Uganda's Data Centre Landscape Report

With plans to expand from 7 to 14 data centers across Africa, the company emphasizes local data hosting to meet regulatory requirements while

HB Customized Cold Storage Solution in Uganda

Haier Biomedical has recently handed over a customized cold room to the National Medical Stores (NMS) under the Ministry of Health in Uganda, the project contains 7 large-scale cold

Africa Launches First AI Data Center to be Constructed

The facility is being developed in Uganda by Synectics Technologies in partnership with Schneider Electric, Nvidia, and Turner & Townsend, and is

Cold Aisle Containment in Data Centers | Subzero

Minimize your data center's footprint, establish optimal operating efficiencies and save money with cold aisle containment. Learn more here!

7 Types of Cooling Techniques for Data Centers

An overview of effective cooling techniques like air conditioning, in-row cooling, and liquid cooling used in modern data centers.

Data Center Cooling: Future of Cooling Systems,

How will data center owners and operators respond? I believe that future cooling technologies like liquid and immersion cooling will play a critical

Maximizing Data Center Efficiency: Key Rack

High-density environments where energy savings and precision cooling are important. Data centers with air-cooled systems looking to isolate hot zones

The 2024 State of Data Centres in Uganda Report – Raxio Group

This in-depth report also explores the challenges and opportunities in Uganda's digital infrastructure, providing valuable insights for businesses, IT leaders, and policymakers looking to

Data Center Temperature: Hot And Cold Aisle Containment

Hot and cold aisle containment systems are crucial for data center temperature. Click to learn about airflow, cooling efficiency, and thermal

What are hot and cold aisles in the data center?

Using hot and cold aisles in a data center is part of an energy-efficient layout for server racks and other computing equipment. Find out more here.

Data Center Cooling | Hot-Aisle/Cold-Aisle Systems

The goal of hot-aisle/cold-aisle systems is to move maximum heat away from the equipment using the minimum amount of energy. This arrangement optimizes air

Raxio Data Centre Unveils Report on Uganda's Data Centre Landscape

As Uganda's first carrier-grade, Tier III certified, carrier- and cloud-neutral facility, Raxio is positioning itself at the center of a sector driven by four core forces: cloud adoption, artificial

Hot aisle containment – keeping data centres cool

Hot aisle containment offers a cost-effective, energy-efficient solution, as Gordon Johnson, Senior CFD Engineer at Subzero Engineering, explains Data

Uganda Launches Africa AI Factory with USIO Supercomputer

With these projects, East Africa is creating a new digital ecosystem: sustainable, high-powered, and homegrown. Uganda's AI factory and Kenya's Nxtra data center are signals that the

## Contact Us

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