

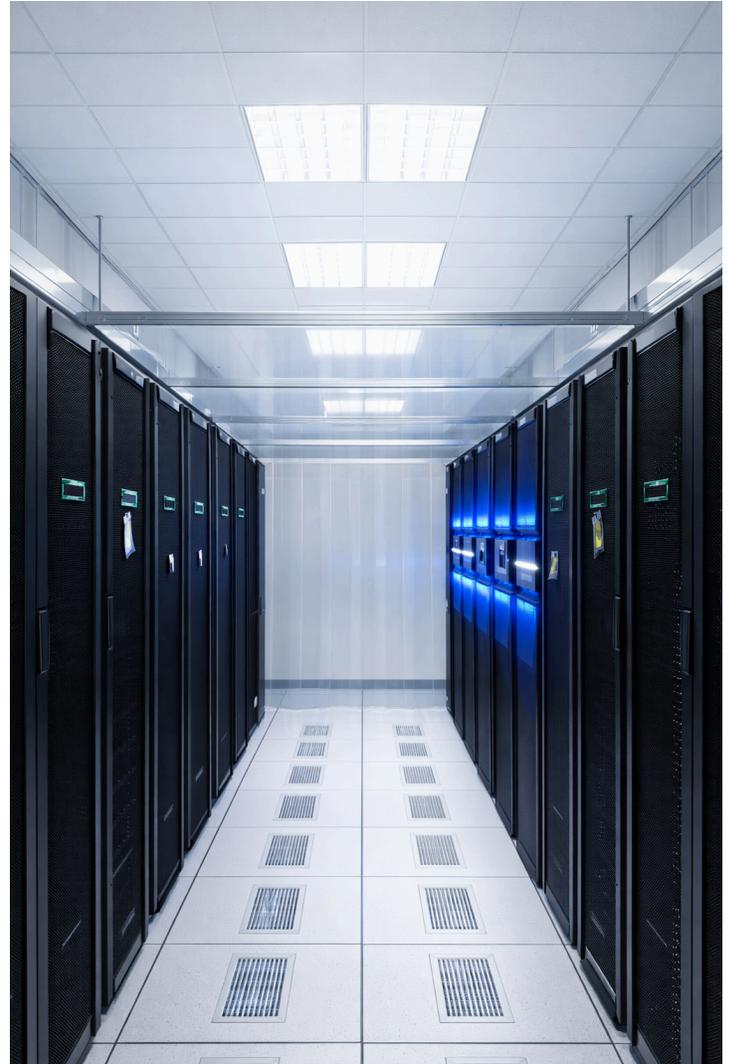
THERMAL MANAGEMENT

AirLogic Containment Systems

Custom-engineered cold aisle and hot aisle containment solutions that eliminate air mixing, maximize cooling efficiency, and reduce energy costs. Every installation is designed and built to your specific data center layout.

KEY FEATURES

- ← **Cold Aisle Containment (CAC)**
Enclose cold aisles to deliver chilled air directly to server intakes
- ← **Hot Aisle Containment (HAC)**
Capture exhaust heat and return it efficiently to cooling units
- ← **Fire Suppression Integration**
Drop-away ceiling panels open automatically for suppression agent dispersal
- ← **Custom Engineering**
Designed to your exact row lengths, heights, and ceiling conditions
- ← **Sliding Door Systems**
Manual or automatic doors for aisle entry and exit points
- ← **Vertical Fill Panels**
Close gaps between and above racks for complete separation



FIRE SUPPRESSION INTEGRATION



Panel Type	Hinged drop-away
Activation	Fire alarm system linked
Agent Dispersal	Full ceiling opens on trigger
Reset	Manual re-latch after event

CONTAINMENT TYPES

Cold Aisle (CAC)	Most common approach
Hot Aisle (HAC)	Best for high-density
Chimney/Duct	Retrofit existing facilities
Hybrid	Mixed legacy environments

ENERGY & EFFICIENCY BENEFITS

Metric	Typical Improvement
Cooling Efficiency	20-40% improvement
PUE Reduction	0.1 - 0.3 points
Supply Air Temp	Raise 5-10°F safely
Hot Spots	Eliminated

COMPONENTS

Roof Panels Solid, clear, or fire-rated drop-away panels	End-of-Row Doors Sliding or swing, manual or automatic panels
Vertical Panels Fill gaps between racks and above	Framework Steel structure spans rack rows

Why Custom Containment?

Every data center has different ceiling heights, row lengths, and fire suppression requirements. Our containment systems are engineered to integrate perfectly with your existing infrastructure, not force you to work around a pre-made kit.

Installation: Professional installation included. We coordinate with your fire suppression vendor to ensure proper integration and code compliance.

Process: Site survey, engineering drawings, approval, fabrication, and installation by our certified team.