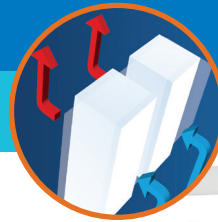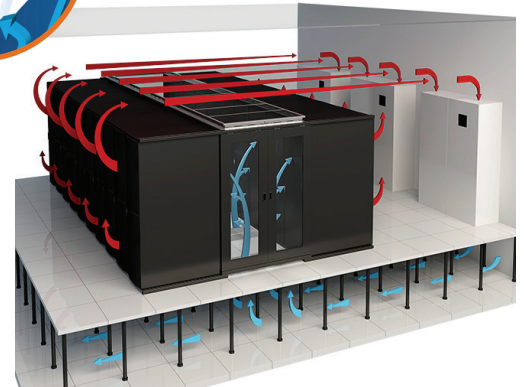PRODUCT SOLUTIONS BRIEF
BELDEN

DATA CENTER THERMAL EFFICIENCY

Through our strong global partnerships and alliances with manufacturers such as Belden, we are able to present you with the following offering to meet your specific data center requirements.

Aisle Containment System
Belden's Aisle Containment System offers the greatest flexibility for upgrading, designing and implementing a tailored solution that fits specific containment needs. By eliminating the mixing of hot and cold air, the panels allow for increased temperature differential of computer room air conditioner (CRAC) units, significantly improving cooling.

CHALLENGE SOLVERS

- Belden's Aisle Containment System features innovative transparent panels that are lightweight and easily attached either horizontally or vertically to the top of data center cabinets by using a universal rail system.

- Panels that are horizontally attached form a roof for trapping hot return air or cold supply air. Panels that are vertically attached extend to overhead return plenum or ducted cooling systems.

- Smoke alarm-triggered fall-away panels can be reset without damage to the system or tile. The panels hinge away to allow sprinklers to do their job but DO NOT drop to the floor, which can cause a barrier to humans exiting the space.

- Designed from standard components but tailored to fit each customer's exact needs, these are suitable for use with all Belden cabinets and can be retrofitted onto any current or future cabinet installation.

THE ANIXTER APPROACH

Conditional Environmental Control

- **Airflow segregation**
  Segregate airflow to and from the IT load by using techniques based on room design and cabinet power density.

- **Airflow control**
  Use data from the cooling system to control EC fans that compensate the IT load in real-time.

THE BELDEN SOLUTION

SEGREGATION TYPE	AIRFLOW RETURN	OPTIONS
Hot aisle Cold aisle Chimney	Ducted Nonducted	Width Length Door type

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Cold-aisle containment system

BELDEN
SENDING ALL THE RIGHT SIGNALS

WHAT WE HEAR

Challenges from various data center stakeholders:

Cabinet densities are **INCREASING**

Operational **BUDGET CUTS** year on year

Lack of **AIRFLOW MANAGEMENT**

Overwhelming **DESIGN** considerations

Matching **COOLING** to IT load

Infrastructure as a Platform
by Anixter

Infrastructure as a Platform by Anixter provides an investigative methodology that uncovers gaps in your data center thermal management strategy and helps you reclaim stranded capacity.

CONFIGURE

We help you discover and map your specific needs to the best solution.

- Hot- or cold-aisle containment
- Airflow return
- Panel orientation
- Aisle, length, width and door options

BUNDLE

Your validated, preconfigured solutions are packaged and site ready.

- Fiber and copper connectivity
- Cable and airflow management
- Intelligent cabinet PDUs
- Aisle and cabinet security

DEPLOY

Controlled, repeatable solutions are delivered on time and under budget.

- Custom packaging and labeling
- Time-sensitive delivery options
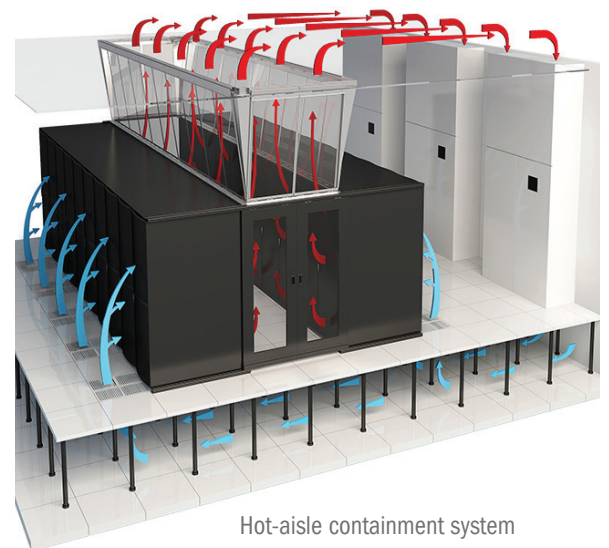- Staged project shipping
- Tailored last-mile delivery

AISLE CONTAINMENT SYSTEM FEATURES

✓ **AIRFLOW CONTROL**

- Reduces cost associated with cooling a data center
- Prevents hotspots that can cause equipment failure
- Increases temperature differential at CRACs
- Features lightweight, transparent panels for easy handling and installation

✓ **FLEXIBLE DESIGN**

- Adaptable for hot- or cold-aisle containment
- Ducted, nonducted and chimney systems to provide flexibility
- Field modifiable to meet height and space requirements
- Universal rail system to accommodate any cabinet size

Hot-aisle containment system

▶ FOR MORE DETAILS VISIT ANIXTER.COM/SHOPBELDEN

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Legal Statement: anixter.com/legalstatement

For over 30 years, Anixter has been the leading global, value-added distributor of physical layer communication infrastructure solutions for office, building and campus environments. As experts in large-scale project execution, we are a trusted supplier to leading communication integrator companies and have worked with many Fortune 500 companies.

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