

Data Center Aisle Containment Series

Smart Aisle Containment Data Center

HRA-CAC60 / HRA-SCAC60

HRA-CAC80 / HRA-SCAC80



Cold Aisle Containment is an advanced airflow management solution designed to isolate the cold supply air in data centers. By enclosing the cold aisle between rows of server racks, this system ensures that chilled air is efficiently directed to IT equipment intakes, preventing it from mixing with hot exhaust air.

Ideal for medium to large data centers, Cold Aisle Containment significantly improves cooling efficiency, reduces energy consumption, and supports higher rack densities. Available in modular or custom-built configurations, this system can be integrated with existing infrastructure to maximize thermal performance and compliance

Benefits:

- Enhanced cooling efficiency and airflow control
- Reduced operational costs and carbon footprint
- Improved equipment reliability and lifespan
- Scalable design for future expansion

Features:

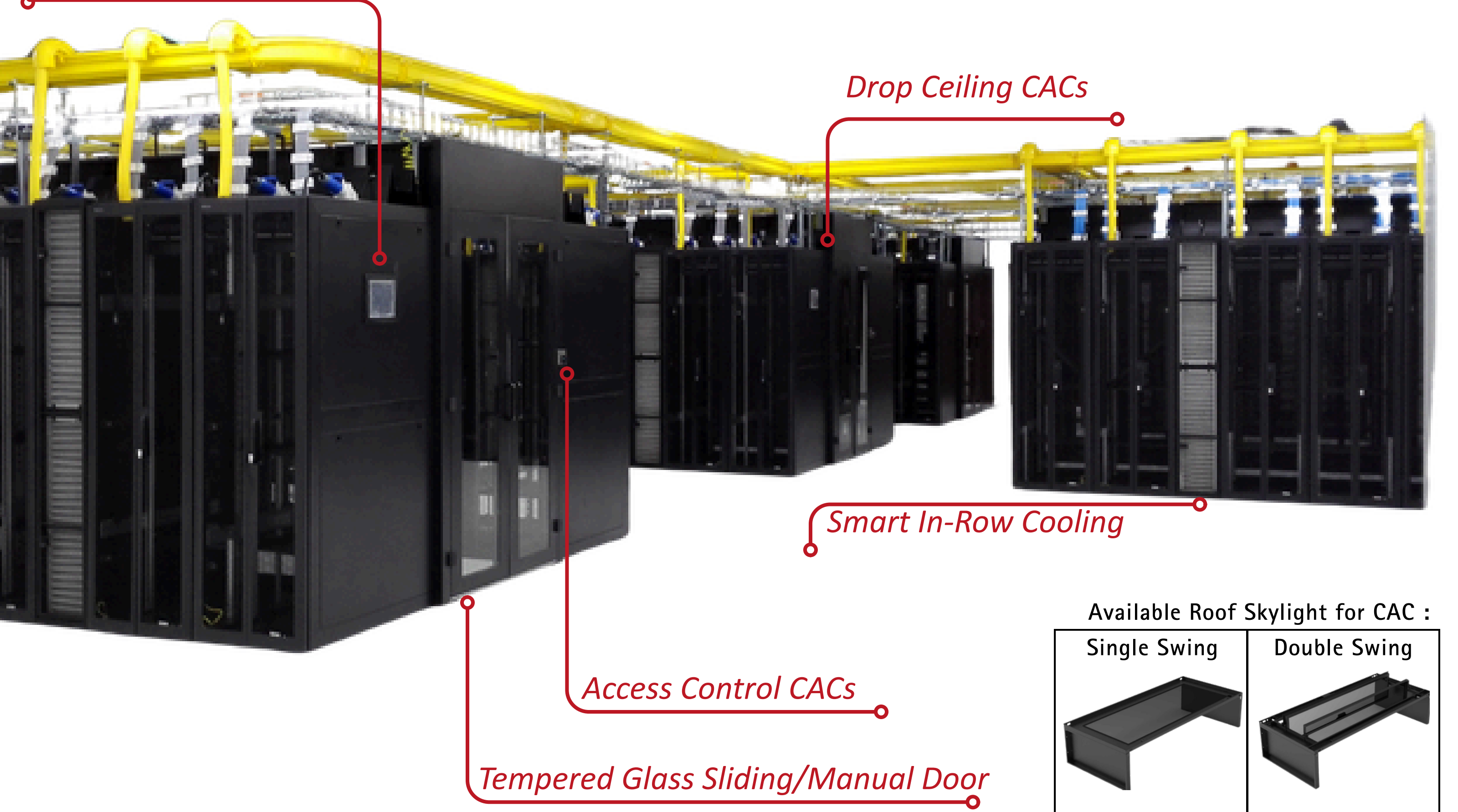
- Monitor Controller Power Environment System
- Access Control Face Recognition , Fingerprint & Touchless Button Exit
- Drop Ceiling (have manual release button)
- Lamp Motion Sensor Each Row
- Motorized Frameless Sliding Door with Anti-Pinch Safety Sensor
- Aisle Containment Integrated with Fire Supression System & DCIM

Cold Aisle Containment

Smart Monitor Controller System



Power Environment System



HaganeRack Hot Aisle Containment

Hot Aisle Containment (HAC) is Data Center Cooling Efficiency Solution and thermal management strategy used in modern data centers to optimize cooling efficiency and maintain equipment performance. In a HAC setup, rows of server racks are arranged back-to-back, with the hot air exhausts facing each other. This creates a “hot aisle” that is enclosed using physical barriers such as doors, walls, and overhead panels.

By containing the hot air, HAC prevents it from mixing with the cold air in the rest of the room. This separation allows the cooling system to operate more efficiently by directing chilled air only where it's needed and improving the return air temperature to the CRAC (Computer Room Air Conditioning) units.

Benefits:

- Improved energy efficiency and reduced cooling costs
- Increased cooling capacity without additional infrastructure
- Better control over airflow and temperature zones
- Enhanced equipment reliability and lifespan

