Cold Air Containment System

Financial production center

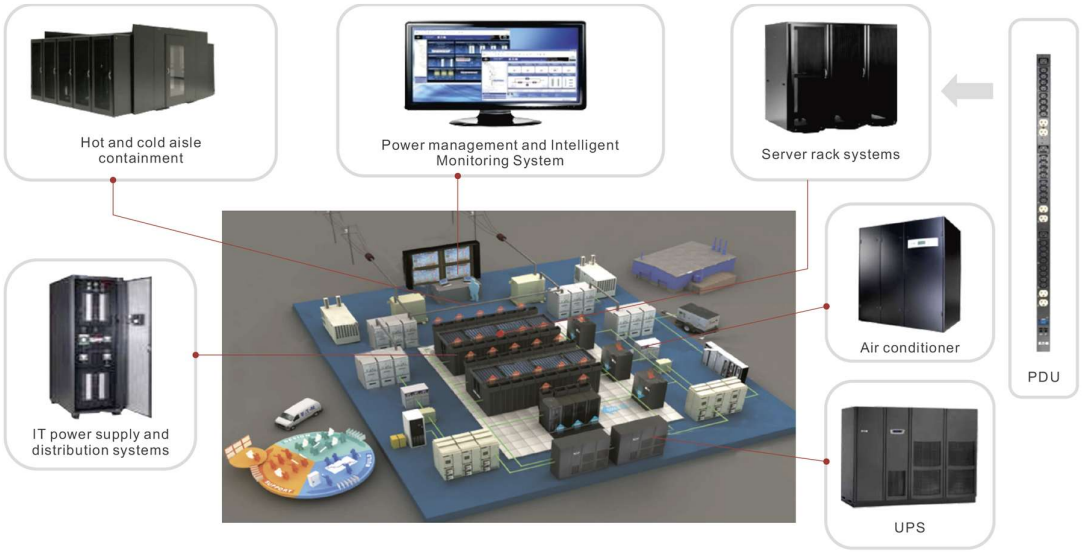
IDC room

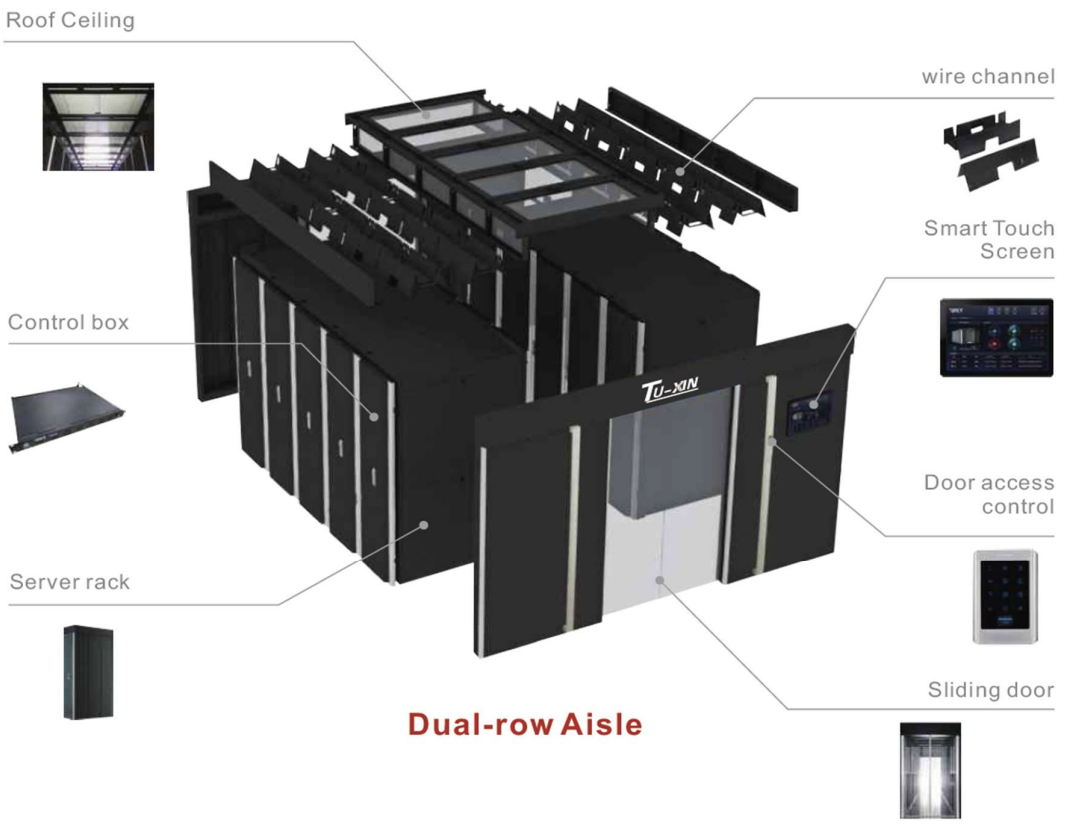
Government data centers

Operator

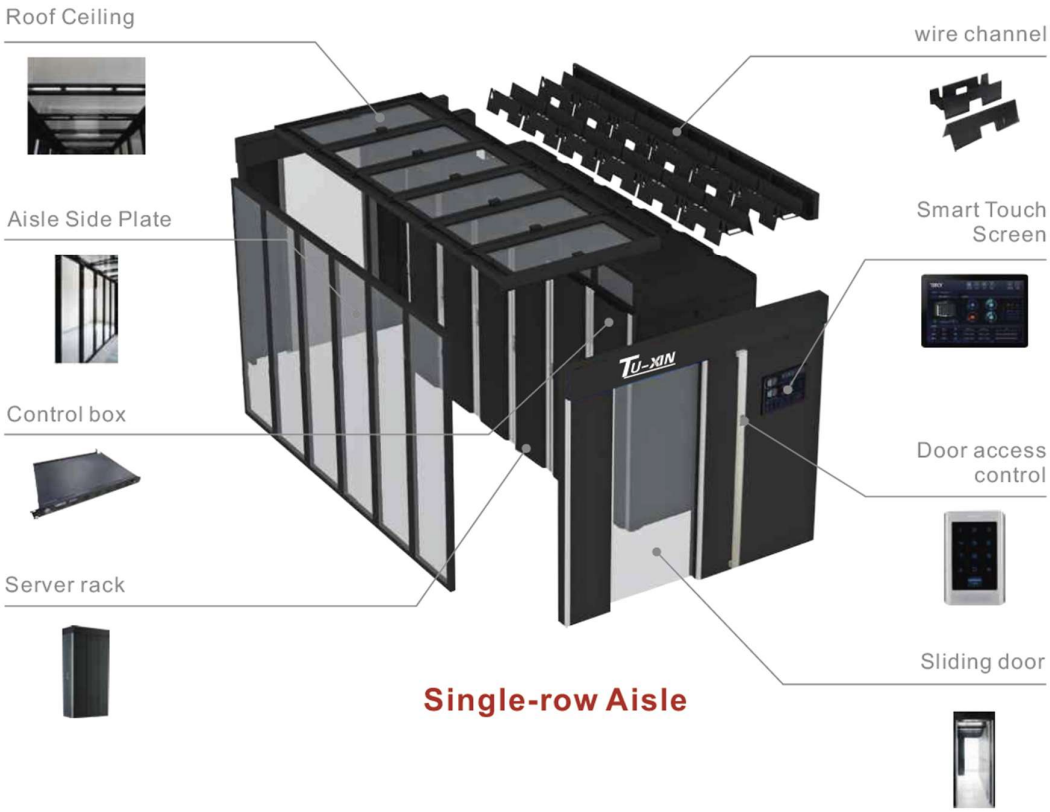
Big hospitals, schools

All kinds of enterprises





Dual-row Aisle



Single-row Aisle

Criteria	Specification
Schematic, technical configuration	Includes detailed schematic and complete technical specifications of the product
Cold air containment system	Includes all door frames, doors, ceiling panels to enclose the cold aisle containment area (Cold Air Containment System – CACS) of the data center along with a complete control system, materials, and accessories for full implementation. The ceiling wrap system, ceiling hangers, and installation accessories are synchronized with the rack cabinet
Dimensions	Complete system design will be aligned with information to ensure compatibility with the actual layout of the investor's site.
Implementation technical documents	Drawings of each component with precise dimensions, along with installation instructions for each component, including illustrative drawings will be supplied as per request
Compatibility	Compatible with the dimensions of the rack cabinet manufacturer
Other requirements	Compliance with the required standards: The designs of the flip ceiling system are designed with safety and prevent unexpected flipping incidents
Anti-air leaking plate	Synchronized with rack cabinet design
Accessories	Synchronized, complete
Warranty	3 years
Ceiling panels	Construction: - White polycarbonate plastic with a minimum nominal thickness of 2.3mm - Transparent panel type with aluminum or steel protective frame
	Light transmission: ≥ 82%
	Ceiling panels are designed: To allow easy installation and removal
Frame and door materials (Applicable for both single and double rack areas)	- Frame door and aisle width 1200mm for double rack rows - Frame door width 900mm and aisle width customized width for single rack rows - Drawings will be confirmed before production
	Frame made of aluminum/steel, thickness ≥ 2mm, black powder coating
	Door uses transparent tempered glass with a thickness of ≥ 6mm

Criteria	Specification
Doors at both ends of the cold aisle (Applicable for both single and double rack areas)	Sliding door type - Single door for single rack row - Double door for double rack row
	Ability to keep the door open when servicing the cold air containment area
	Door opens manually with a button or remote, with the ability to close automatically
	Safety feature: Has anti-pinch capability when closing and opening the door
Area for installing fingerprint locks	Designed area for installing fingerprint and card locks
Accessories to prevent air leakage	The door bottom touches the floor, and the door edges are fitted with soft padding to prevent air leakage when the door is closed
Ceiling panel control system in case of fire	
Mode of operation	The ceiling panel system operates on a self-flipping principle. Each ceiling panel has an impact point for independent manipulation
Control mechanism	**Falling style:**
	The ceiling panel system will have a latch that releases by magnetic force and drops down when a control signal is received
	The rail of the ceiling panel designed with independent lock to keep ceilling panel close during testing or maintaining process.
	Flipping style:
	The ceiling panel system will have a latch that releases by magnetic force and drops down when a control signal is received (or the panel is held by magnetic force, and stops holding to release the panel when a control signal is received)
	The ceiling panels do not collide when flipping
	The opening angle of the ceiling panel after flipping must be at least greater than 75 degrees
	The area of the flipped ceiling panel must maximize the ceiling space of the cage, with a minimum of 90%
Control impact point	The ceiling panels will be activated to flip based on the fire alarm system signal to ensure effective firefighting
Alert	There are alerts to warn users about the release of ceiling panels
Activation time	The system has an adjustable delay (from 10 to 20 seconds) after an alarm to allow users to exit the area when a fire is detected