Infra Aisle

Cold Aisle Containment   >>>   Increase cooling efficiencies by up to 40% !
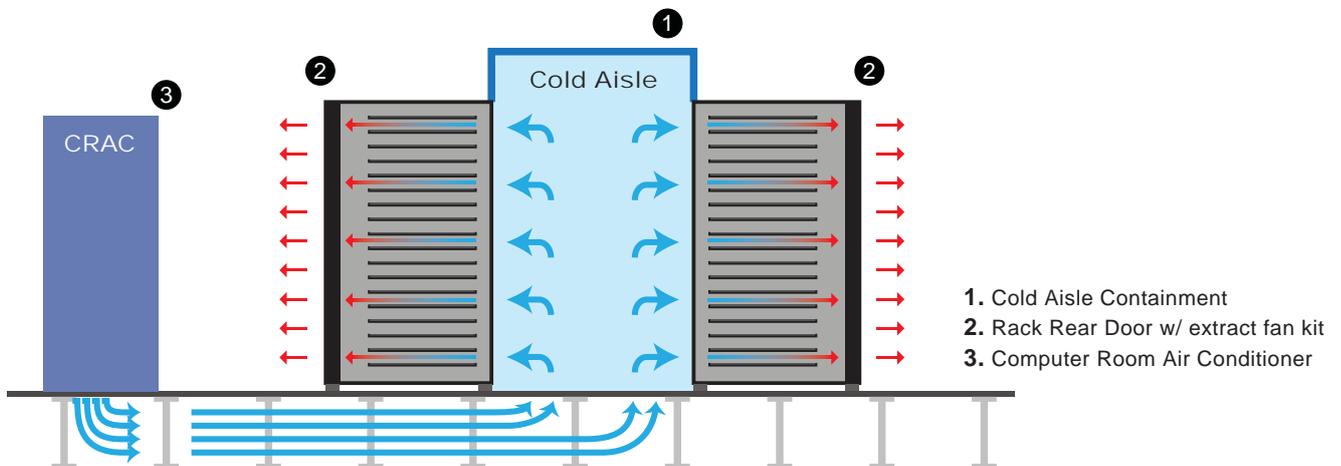
To reduce energy costs and noise in the data center, you must isolate the hot and cold airflow through each rack and the entire room. Austin Hughes's latest innovation in Aisle Containment has focused on total air isolation which not only reduce energy cost but also optimize power availability.

RoHS   **REACH**

Airflow Management Under Cold Aisle Containment   >>>

1. Cold Aisle Containment
2. Rack Rear Door w/ extract fan kit
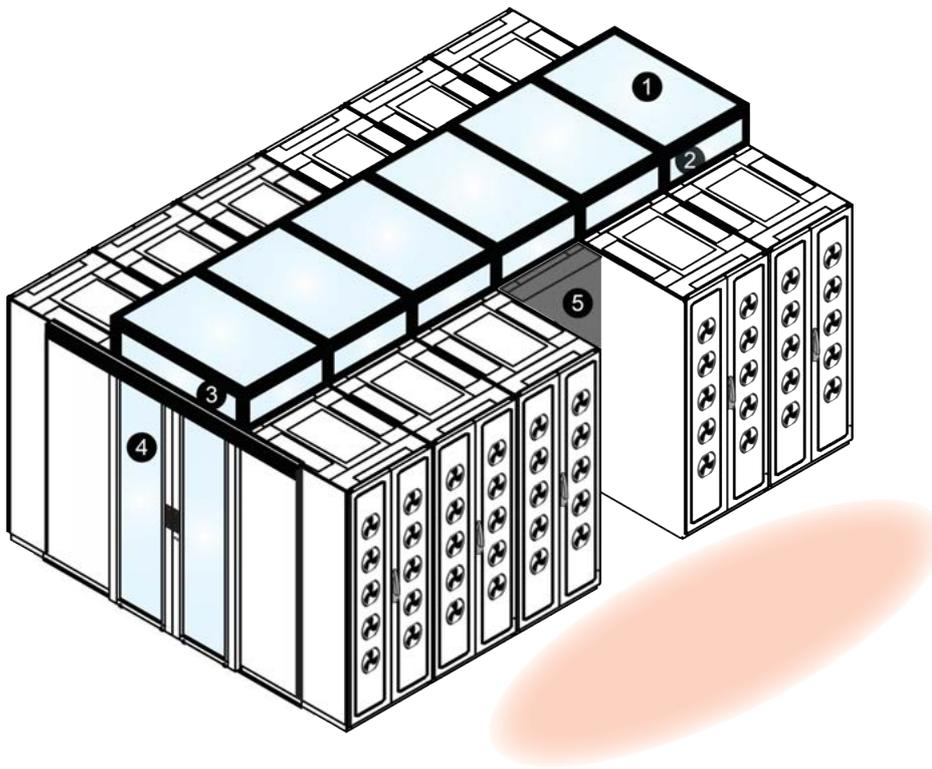**3.** Computer Room Air Conditioner

Key Benefits   >>>

- Result in improved cooling that significantly increase energy savings
- Extends the life of active equipment like switches and servers by reducing the heat load
- Provide more cooling with less energy by containing and directing the cold air to where it is needed
- Less CRAC units on operation or needed as all active equipment has been entirely cold air contained
- Helpful to achieve to be a green data centre corporation & make a contribution towards the environment

Quality Assurance   >>>

- Manufactured by Austin Hughes's own facilities certified by **ISO9001 / 14001**
- Green product **RoHS** & **REACH** certified by SGS laboratory
- Long-term services commitment for system expanding, relocation & customization
- 5 years warrenty for metal, parts & labor on-site

Cold Aisle Containment

Cold Aisle Containment isolates the cold air, preventing it from mixing with the hot air. To enclose the cold aisle between adjustment rack rows, Aisle Containment Doors are combined with an overhead ceiling and Austin Hughes SR or NSR server rack.

Most IT equipment breathes front to rear. Those extract fan panels of the rear door catch the exhaust air off rack equipment & channel it into a hot aisle as the below drawing.

❶ Ceiling Panel

- Made of extruded aluminium tube & clear polycarbonate board
- Attached to the tops of racks or raised by the elevated panel
- Light weight panels & frames for ease of installation
- Panel size subject to widths of the rack & aisles
- Length (Aisle) 1200mm / 1800mm available

Part no.	Width (Rack)	Length (Aisle)
CP-600-1200E	600mm	1200mm
CP-700-1200E	700mm	1200mm
CP-800-1200E	800mm	1200mm
CP-600-1200***	600mm	1200mm
CP-700-1200***	700mm	1200mm
CP-800-1200***	800mm	1200mm

*** Ceiling panel installation without elevated panel

❷ Elevated Panel

- Made of extruded aluminium tube & clear polycarbonate board
- Attached to the tops of racks
- Light weight panels & frames for ease of installation
- Additional clearance above racks
- Height 200mm / 300mm / 400mm available

Part no.	Height	Width (Rack)
EP-300-600	300mm	600mm
EP-300-800	300mm	800mm
EP-300-1200	300mm	1200mm
EP-300-1600	300mm	1600mm
EP-300-1800	300mm	1800mm

❸ Elevated Panel - Door Section

- Attached to the tops of aisle containment door
- Height 200mm / 300mm / 400mm available
- Length (Aisle Door) 1200mm / 1800mm available

Part no.	Height	Length (Aisle Door)
EDP-200-1200	200mm	1200mm
EDP-300-1200	300mm	1200mm
EDP-400-1200	400mm	1200mm

❹ Double Sliding Containment Door

- Space efficient double sliding door is brush sealed at sides and bottom for greater containment
- Stylish aluminium door frame with clear polycarbonate panels
- Width (Aisle) 1200mm / 1800mm available

Part no.	Width (Aisle)	Height (Rack)
ACD-1200-42U	1200mm	42U
ACD-1200-45U	1200mm	45U
ACD-1200-47U	1200mm	47U

❺ Row Filler

- Prevent air escaping around spaces between racks
  Please call for customization.

■ Exhaust Duct

- No standard size but any heights can be offered.
  Please call for customization.