

COOL WAY™

A Power-saving Datacenter Solution



To reduce energy wastage, every computer server location in a data center should be provided with the optimum volume, temperature and humidity of air. One way to do this is to use the hot aisle / cold aisle principle, in which server racks are arranged perpendicular to the CRAC (Computer Room Air-Conditioning) units. Additionally, a containment system for the cold aisle can improve energy efficiency even more.

COOL WAY, President's cold aisle containment system, provides optimally conditioned air to an enclosed cold aisle which ensures that the thermal variations within the rest of the data center do not impact the volume of cold air delivered to the front of the IT equipment.

Benefits

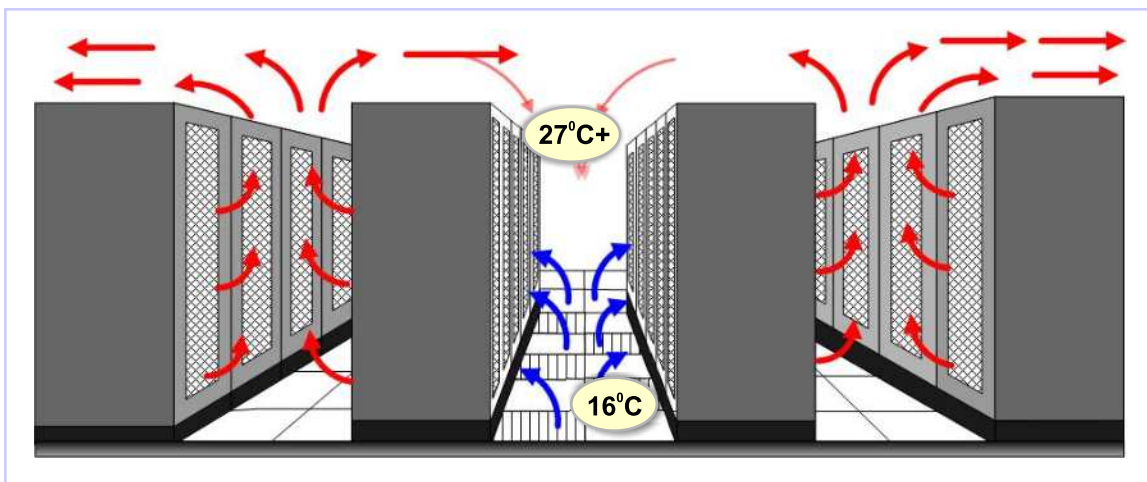
- Prevents short-circuiting of cold air with warm air
- Provides even temperature across the cabinet height
- Increases heat dissipation capacity of the cabinet
- Operating expense is reduced as cooling is limited only to the cold aisle
- Produces more efficient heat removal by increasing the temperature gradient
- Increases MTBF of IT equipment

COOL WAY guides cooled air from the raised floor into a sealed cold aisle between the server racks. Equipments inside the racks are cooled to the desired temperature, after which the hot air is released into the surrounding room, where it rises to the top. The sealed COOL WAY system prevents mixing of cool and warm air in the room and ensures that the air returned to the air-conditioning units is always at a temperature higher than the cool air drawn from the raised floor within the cold aisle.



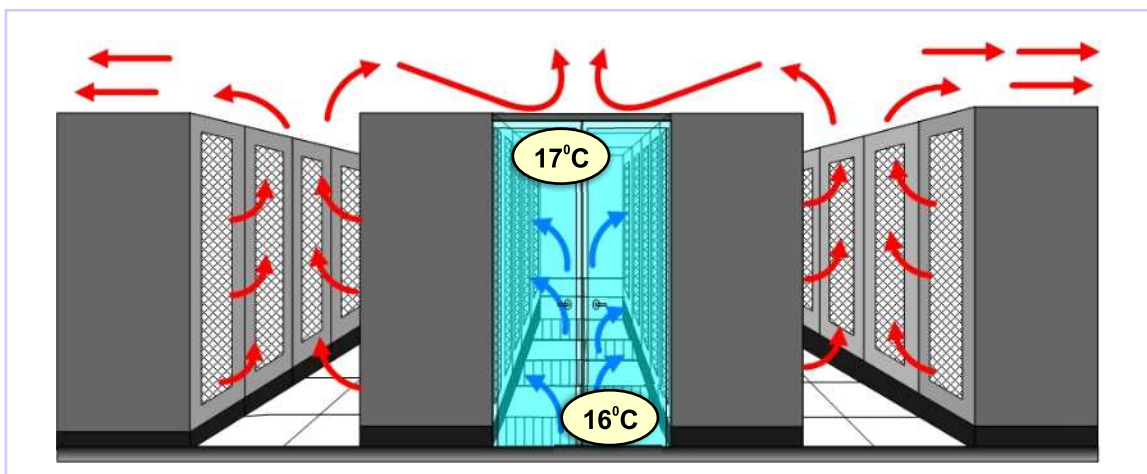
Conventional Datacenter

Hot and cold aisle with inlet air mixing with exhaust air in a typical Datacenter arrangement



Datacenter with COOL WAY

Benefit of COOL WAY cold aisle containment compared to conventional Datacenter practice



All temperatures are indicative

Best-in-class Solutions for Networking, Telecom, Industrial and General Electronics



APW PRESIDENT SYSTEMS LTD.

R-2, Technopolis Knowledge Park, Mahakali Caves Road, Andheri (East), Mumbai 400 093, India
 Phone: +91 22 6644 8888 Fax: +91 22 6644 8899 Email: info@apwpresident.com
 Website: www.apwpresident.com