

THERMAL SOLUTIONSTM

CoolRack HD



CoolRack - HD - Front view with fully perforated steel door

President's Cool Rack-HD is an innovative enclosure that can address heat loads up to 10 KW. This solution is based on simple principle of isolating the incoming cold air from the warm return air being exhausted from the cabinet. The innovative Fan Exhaust duct combination helps in this isolation of the cold and warm air streams in line with ASHRAE guidelines. This results in tremendous energy savings while maintaining the high heat density servers at comfortable temperatures.

Cool air to enter the rack from datacenter surrounding through the front perforated door. The rear is steel plain door with high suction exhaust fans mounted on the top cover rear side to create negative pressure. All the sides in the front are sealed to prevent any air leakages, thereby forcing the cool air through the server. The exhaust hot air is then taken out of the rack through an exhaust duct which connects the cabinet with the false Ceiling, thus preventing the cold air mixing with the hot air.

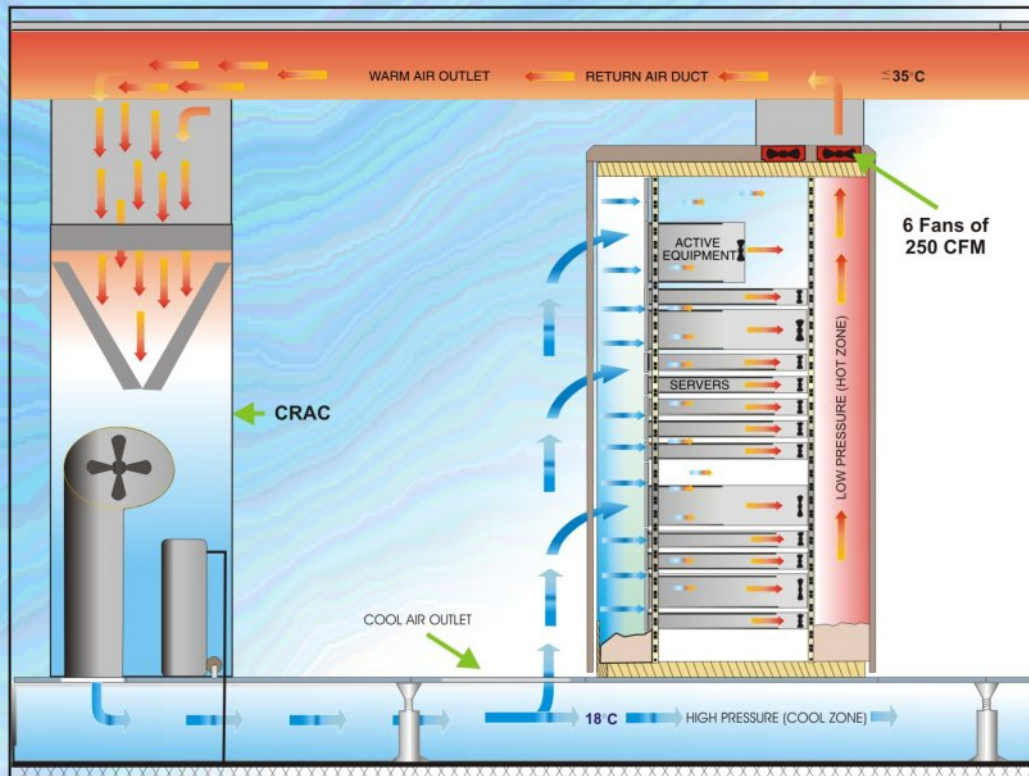
Features & Benefits:

- Ability to house more server in a cabinet...right upto 42 U
- Equipment runs cooler therefore more reliabilityMTBF is increased
- Optimal use of CRAC with maximum utilization of cold air
- Saving in CRAC running Cost



Exhaust duct for *CoolRack-HD*

INTERNAL AIRFLOW ARRANGEMENT IN COOLRACK - HD



Side view showing the internal airflow paths.

*Basic Requirement

- This solution requires a raised access floor
- Operates along with Precision Air Conditioners
- False ceiling is required with clear path for return air from rack to Precision AC.

Specifications:

DESCRIPTION	UNIT	DETAILS
Cooling Capacity	kW	10
Fan		
Type of Fan		Axial
No Of Fan	No	6
Air Flow	CFM	1500
Air Throw		Top Throw
Electrical		
Input Voltage	V	230
Rated Current Per Fan	Amp	250
Input Power Per Fan	Watts	40
Speed	RPM	2600
Physical		
Maximum Unit Height	U	42
Maximum Unit Width	mm	600
Maximum Unit Depth	mm	1200
Unit Colour		Black
Weght Carrying Capacity	kg	500

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