



Site Name and Location: _____

Date: _____

<input checked="" type="checkbox"/>	Item #	Major Item/Area Description	Component / Area Evaluated	Status	Goal/Concern	
	1	Unused/Obsoleted devices shut down?	General considerations and items to evaluate	Y/N	Airflow + Electricity usage	
	2	Has Hot Aisle-Cold Aisle been implemented?	Data Center Layout in conformance with Standards Recommendations	Y/N	Best Practices	
	3	Rack/Cabinet Cooling and Air-Flow	Are Blanking Panels installed in all open Rack/Cabinet spaces?	Y/N	Hot Air Recirculation	
	4		Rail and Manager Vertical Air Gaps Sealed to optimize air-flow?	Y/N	Recirculation	
	5		Cable Entry Ports - Are they sealed to prevent air leakage?	Y/N	Air Leakage	
	6		Are Cable Management Arms blocking Air-Flow?	Y/N	Recirculation	
	7		Air-Flow from Bottom to Top of cabinets adequate?	Y/N	Increase Air-Flow	
	8		Filters/Inlets on equipment clean and clear of Dust & Debris?	Y/N	Increase Air-Flow	
	9		Openings in Tiles Bushed or Sealed Properly?	Y/N	Increase Air-Flow	
	10		Local Air Direction - Front of Cabinet Delivery	Perforated Front Doors in use? (Front air delivery systems only)	Y/N	CRAC Air Delivery
	11		Local Air Direction - Under Cabinet Delivery	Solid Front Doors in use? (Under Cabinet air delivery systems only)	Y/N	CRAC Air Delivery
	12	Is the Floor Cutout for air entry near the Front of the Cabinet?		Y/N	CRAC Air Delivery	
	13	Air Management Aisle/Row Level	Bayed Cabinets: do they have Side Panels installed between Cabinets?	Y/N	Hot Air Isolation	
	14	Special Equipment Requirements	Some Network Hardware may require Side to Side Cooling/Redirection	Y/N	Air Handling	
	15	Reliability/Redundancy	Points of Failure: Cooling Fans Operational?	Y/N	Reliability	
	16		Points of Failure: Cooling Fans/Filters Clear of Debris and Dust?	Y/N	Reliability	
	17	Power Efficiency	Is equipment with dual-voltage power supplies (I.e. 240 or 120 volts) operating at the higher voltage for optimum efficiency?	Y/N	Efficiency & Energy Costs	
	18	Measurement and Verification <i>(Rack/Cabinet Level)</i>	Temperature	Y/N	Management	
	19		Humidity	Y/N	Management	
	20		Airflow	Y/N	Management	
	21	Measurement and Verification <i>(Room Level)</i>	Temperature	Y/N	Management	
	22		Humidity	Y/N	Management	
	23		Airflow	Y/N	Management	
	24	Delivery Systems for CRAC (Cooling) Air Supply	Raised Access Floor: Y/N Depth:	Y/N	Increase Air-Flow	
	25		Location and Type of Floor Tiles:	Y/N	Increase Air-Flow	
	26		Abandoned Cabling Present: Yes/No: (No is good)	Y/N	Code Compliance	
	27		Services and Obstructions located under Hot Aisles? (Yes is good)	Y/N	Air-Flow Optimization	
	28		Are there Perforated Tiles in the Hot Aisles? (No is good)	Y/N	Air-Flow Optimization	
	29		Are there perforated tiles in areas not needed for cabinets? (No is good)	Y/N	Air-Flow Optimization	
	30		Are there removed/damaged floor tiles that have not been replaced?	Y/N	Air-Flow Optimization	
	31		High Density Cabinets located near the Center of Aisles?	Y/N	Air-Flow Optimization	
	32		Are there old/or inappropriate Fans in the cabinets that are restricting flow?	Y/N	Air-Flow Optimization	
	33		Diffuse Delivery / Return System: Is Ductwork Required?	Y/N	Air Recirculation	
	34	CRAC Unit Management and Monitoring	Are the CRAC units Monitored/Controlled and Synchronized (Grouped-Coordinated) (Variable Speed Motors/Drives)	Y/N	Monitoring/Management, Energy Efficiency and Utility Incentives	
	35	CRAC/CRAH Controls and Efficiency	Do the CRAC Units have Variable Speed Motors/Drives or are they Direct Drive and always running at full-speed?	Y/N	Energy Efficiency and Utility Incentives	
	36	Room Conditions and Environmentals	Have the Floors, Walls and Ceilings been sealed and any Solar Gain Areas covered to prevent moisture migration that will impact the efficiency of the CRAC units and Humidity control?	Y/N	Energy Efficiency	
	37	Current Utility Cost Per Kilo-Watt Hour	Basis for Energy Efficiency Costs and Savings Calculations for Operating Expenses and Utility Incentive Programs	\$_____	OpEx Valuations	

Notes:

Do Images Accompany This Checklist? **Y / N**

Provided as an information gathering tool "as-is" based on TIA and ASHRAE industry best practices - Please contact us for help in evaluating and implementing Solutions!