![CoreSite - An American Tower Company]

Customer Checklist: Optimal Data Center Operations

Ensuring data center deployments are operating at peak efficiency for customers and the environment is vital to CoreSite

DATA CENTER DOs

CoreSite prioritizes our commitment to sustainability and partner with customers like you to help maximize cooling and energy efficiency in your computer rooms, cabinets and cages. By following this checklist, together we can achieve a refined, responsible approach to energy-efficient data centers and operations.

☐ **UNDERSTAND YOUR EQUIPMENT**
Each server has a specification sheet that details nominal supply air temperature and allowable core temperatures. This will aid you in setting alarm parameters correctly.

☐ **KEEP YOUR ENVIRONMENT CLEAN**
Keeping your cage or cabinet neat and clean makes a positive impact on airflow and heat transfer. The presence of unnecessary boxes, tools and debris can block air from cooling your equipment.

☐ **USE BLANKING PANELS**
Empty cabinets and empty rack unit positions can allow hot air to migrate into the cold aisle, causing unwanted temperature issues. Using blanking panels mitigates this.

☐ **UNDERSTAND SERVICE LEVEL AGREEMENTS (SLAs)**
Reviewing CoreSite's allowable SLAs for your space can help guide you in setting up cabinet alarming parameters. If you are unsure, just ask!

☐ **UTILIZE CONTAINMENT**
While CoreSite does not mandate hot/cold aisle containment in our buildings, it is always a good idea to deploy containment to maximize air usage, especially at higher densities.

☐ **ASK QUESTIONS!**
If you need assistance or guidance on how to maximize efficiencies in your space, let us know. Reach out to your project manager or submit a remote hands ticket to get started.

☐ **DEPLOY BAFFLES**
In certain instances, equipment can exhaust air sideways, causing adjacent equipment to overheat. Deploying baffles can help redirect air in the right direction.

☐ **UTILIZE THE SERVICE DELIVERY PLATFORM**
The MyCoreSite Service Delivery Platform gives a snapshot of temperature and humidity in your space. It also provides circuit draw information for your deployment. Understanding your kilowatt draw can help us guide you to supplying the right amount of airflow in your cabinet.
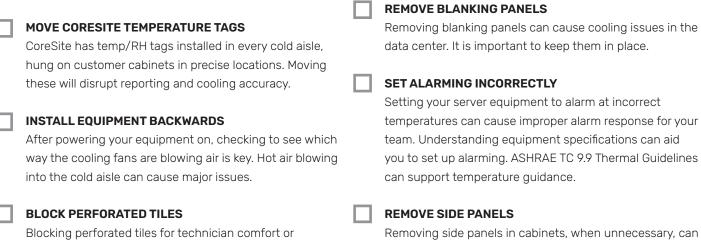
☐ **KEEP CONTAINMENT DOORS OPEN**
Technicians working in the space often forget to close containment doors and cabinets. Keeping doors and cabinets closed at all times goes a long way to ensuring proper airflow.

☐ **MOVE CORESITE TEMPERATURE TAGS**
CoreSite has temp/RH tags installed in every cold aisle, hung on customer cabinets in precise locations. Moving these will disrupt reporting and cooling accuracy.

☐ **INSTALL EQUIPMENT BACKWARDS**
After powering your equipment on, checking to see which way the cooling fans are blowing air is key. Hot air blowing into the cold aisle can cause major issues.

☐ **BLOCK PERFORATED TILES**
Blocking perforated tiles for technician comfort or with boxes can cause cooling issues in the space. A consequence could be temperature issues in your racks or energy overuse.

☐ **OVERCOOL THE SPACE**
Overcooling your space puts undue stress on the mechanical and electrical systems. Precisely targeting the right amount of airflow is key in the data center.

☐ **REMOVE BLANKING PANELS**
Removing blanking panels can cause cooling issues in the data center. It is important to keep them in place.

☐ **SET ALARMING INCORRECTLY**
Setting your server equipment to alarm at incorrect temperatures can cause improper alarm response for your team. Understanding equipment specifications can aid you to set up alarming. ASHRAE TC 9.9 Thermal Guidelines can support temperature guidance.

☐ **REMOVE SIDE PANELS**
Removing side panels in cabinets, when unnecessary, can cause wrap-around issues with airflow. Hot air can get mixed into server air intake.

WANT TO LEARN MORE?
CoreSite is here to help. If you have questions or concerns, please contact Client Services at +1 866.777.CORE or email info@coresite.com. You can also contact your project manager or submit a remote hands ticket.

Find out more.
Click. Call. Write.

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CoreSite.com | +1 866.777.CORE | Info@CoreSite.com