



# DATA CENTER HVAC & AIR FLOW STUDY

## Get Control of your Data Center Today

Yorel's HVAC & Air Flow Study utilizes proven methodology, years of industry experience, and partnerships with leading vendors to determine strategies that best fit your business needs. We will review your data center's HVAC infrastructure and provide you with an accurate measure of how effective the cooling strategies are technologies you can implement to help create efficiencies that will save you time, money and reduce outages.

### Process:

- **Cooling System Audit**

Yorel will audit the existing space to review the key points of data center HVAC success. This includes:

- Visual inspection of the CRAC/CRAH, condenser or chilled water loop
- Review ducting systems
- Identify & document single points of failure
- Provide a report documenting the finding of the study
- Present recommendations for enhancing the performance of the data center

- **Air Flow Study**

Yorel will analyze the capacity and fault tolerance of the HVAC system delivery of cold air and effective return of hot air to the HVAC System return. This includes:

- Measure each rack inlet temperature and exhaust temperature
- Document via top down drawing the airflow movement in the data center
- Measure airflow in CFM for each perforated tile where present
- Identify air damming in the raised floor environment
- Identify air mixing and it's impact on rack temperature
- Provide a report documenting the findings
- Present recommendations for corrective actions

### Deliverables:

- Data Center Power, Cooling and Space Management Report
- System Recommendations
- System Configurations
- Drawings presented in AutoCAD or MS Visio



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