



Electronic Environments—Your Data Center Experts

Data Center Assessment Services

Proactively Manage Power & Cooling

Purpose of an Assessment

Ensure reliability & extend service life by inspecting the operating condition of critical power and cooling systems

Evaluate your data center's infrastructure capabilities and ability to support long term business needs

Collect & analyze power & cooling utilization data to provide a clear understanding of your data center's resiliency

Make the Most of Your Facility and Infrastructure

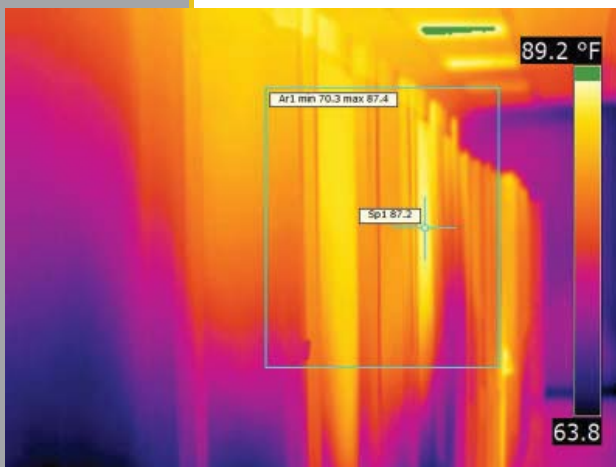
Today your IT organization is facing a multitude of challenges, including increasing workloads, evolving technologies, aging data centers, rising energy prices, and increased environmental awareness. In many data centers, the power and cooling infrastructure has not kept pace with the dramatic changes in the IT environment.

By proactively managing power and cooling systems, you can **improve reliability, reduce energy costs and make the most of your existing facility and infrastructure.**

Electronic Environments Corporation (EEC) can deliver the assistance you need. Our data center assessments provide detailed information about your data center power and cooling infrastructure condition, utilization levels and performance capabilities.

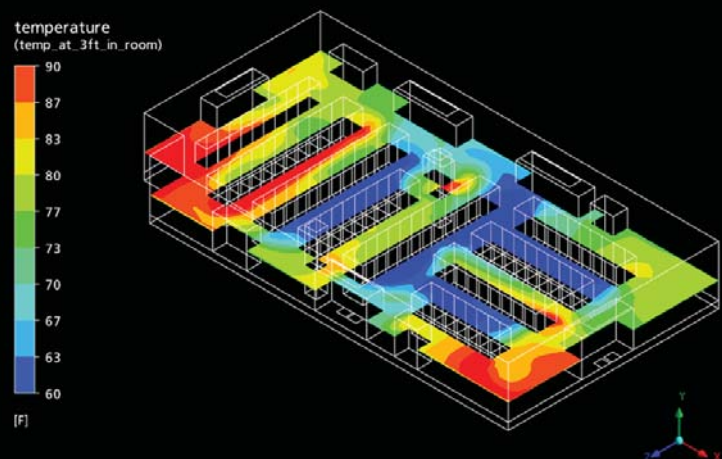
EEC's data center experts will:

- Configure service modules to provide an assessment package tailored to your business needs
- Establish a power and cooling capability baseline
- Provide utilization information relative to critical infrastructure capacity
- Note data center electrical and mechanical equipment operating conditions
- Review critical infrastructure maintenance programs
- Identify cooling inefficiencies and offer energy savings opportunities
- Deliver a comprehensive report that provides solution options to data center inadequacies as well as strategies to extend data center service life.



The image on the left indicates 89 degree rack inlet. Cause: Recirculation of hot air due to lack of blanking panels.

The image below is a CFD analysis of room temperatures at three (3) feet in the room.



www.eecnet.com

Electronic Environments
Infrastructure Solutions



Data Center Assessment Services

Maximize Uptime

Contact us to find out more about our Data Center Assessments or any other services in our portfolio:

800.342.5332

eecnet.com

Assessments that Scale to Suit Your Business Needs

Electronic Environments has three levels of assessments:

- **Level One Data Center Health Check** - A basic service that will provide you with an inventory of your critical power and cooling equipment, note overall operating conditions and present recommendations to improve infrastructure reliability and service life
- **Level Two Intermediate Assessment** - A more broad service that will provide room scale power and cooling capacity and utilization information as well as rack level cooling analysis using airflow measurement and infrared imaging
- **Level Three Comprehensive Assessment** - A detailed power and cooling analysis based on measured electrical distribution load readings at the rack level

Additional services can be added to configure a package that suits your budget and business needs:



- CAD Floor Plan
- Electrical Infrastructure Thermoscan
- Electrical Distribution Circuit Tracing
- Critical Electrical Infrastructure One Line Diagram
- Single Point of Failure Analysis
- Diesel Generator Load Bank Testing
- Power Quality Analysis
- Computational Fluid Dynamics (CFD)

Features	Benefits
Detailed analysis of space, power, and cooling capacity and utilization information	Identifies immediate needs and enables proactive management of critical infrastructure resources
Data center optimization plan	Provides key areas of focus to extend data center service life, improve energy efficiency and reliability, and avoid stranded capacity
State of the art instrumentation including infrared cameras and true RMS meters	Ensures accuracy of results in identifying problem areas that may compromise data center availability
EEC trained data center experts	Perform assessment tasks with a high degree of sensitivity to the critical environment

Corporate Headquarters
410 Forest Street
Marlborough, MA 01752
800.342.5332
508.229.1400
info@eecnet.com

