Increasing reliability and performance of electrical components.

Why thermal management is such a hot topic.

Electrical components are being stressed more than ever

Engineering trends have placed more powerful electronics into smaller and smaller packages. The density of modern electronics in smaller cabinets intensifies heat and can compromise component performance. With increasingly harsh environments and conditions, cooling and thermal management is now a primary consideration.

Excess heat shortens the life of power electronics in drives, power supplies, and other related devices. A 10°C rise in operating temperature reduces component life by 50%. Excessive heat will lead to erratic operation or catastrophic failure.

Thermal cooling systems can be installed to combat excess heat

Incorporating thermal cooling within an enclosure will increase life and reliability. This is true for both new and existing systems. Enclosure temperature should be checked during peak heat load times, such as the hotter months of the year and or under peak load conditions.

> On average, 3 out of 10 enclosures requiring cooling.

Thermal audits can help identify thermal threats

A thermal audit can be conducted to efficiently assess many enclosures. Once problems have been identified, cooling systems can be installed to keep temperature within design guidelines. This will increase life and reliability, ultimately generating cost savings.

We highly recommend the Hoffman line of thermal management products, including:

Air Conditioner
This is an ideal type of cooling which creates a more reliable system and improves equipment life cycle.

Vortex Cooler
This is an ideal type of cooling for smaller enclosure applications where compressed air is available.

For additional help selecting thermal management products, try the Hoffman selector tool at:

http://tools.hoffmanonline.com/index.html

Getting started

Contact EECO at 800.993.3326 to arrange a free thermal audit, identify threats, and develop a corrective action plan.

Call EECO For A Thermal Audit Of Your VFD Enclosures
800.993.3326

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www.eecoonline.com