



# Thermal Audits for Electrical Control Enclosures



## THERMAL AUDIT

K W Sales can perform a Thermal Audit of your Electrical Control Enclosure in order to properly size the cabinet air conditioner required to maximize the life of your electronic equipment. We will:

- Determine the heat load generated by electronics inside the enclosure.
- Calculate enclosure surface area.
- Find the ambient and the desired maximum internal temperature.
- Identify the enclosure location, color and material.
- Perform calculation and make a recommendation on BTUH requirement, along with quotation and product availability.

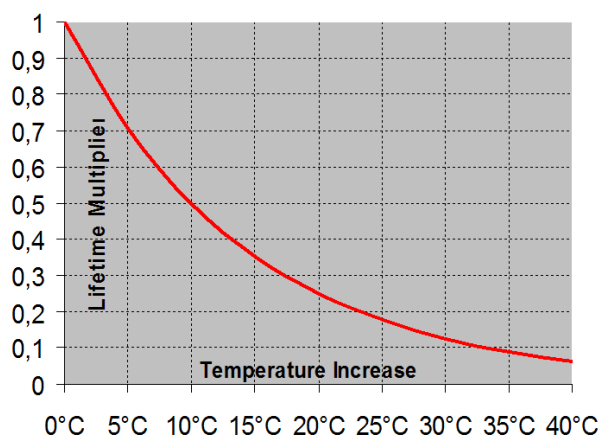
## WHY COOL YOUR ENCLOSURE

- Avoid the high cost of downtime
- Keep critical loads functioning
- Hot enclosures require products carrying electrical current to be derated
- Reduce failure of expensive electronics
- Allows higher density of heat producing electronics in a smaller enclosure
- Properties of solid state devices can change causing erratic performance
- High temperatures may void your equipment warranty

### Temperature Dramatically Reduces the Lifetime of Electronics

Rule of Thumb:

*For every rise of 10°C/18°F lifetime expectancy is cut in half*



*Did you know the life expectancy of electronics is cut in half for every 10°C/18°F increase in temperature?*



**K W Sales Proudly Represents Thermal Edge Temperature Control Solutions for Electrical Enclosures**

www.thermal-edge.com



We Think Inside the Box  
(The NEMA Box)

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