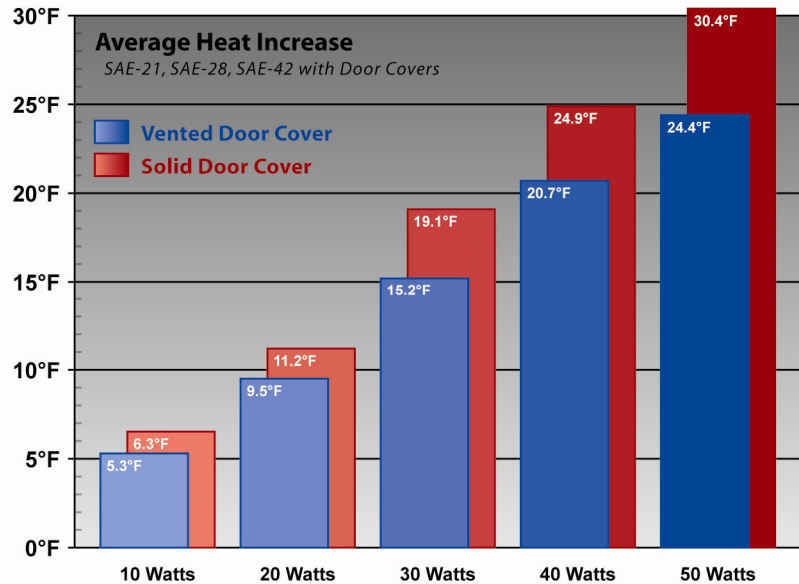




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## ENCLOSURE WITH VENTED DOOR COVER THERMAL TESTING



### **OBJECTIVE:**

The purpose of this test report was to demonstrate the heat dissipation advantage of the vented door cover over the standard design. The same test was performed on the 21", the 28", and the 42" product solutions. Heat for the test was generated by a power supply to simulate the conditions similar to those typically found in the field when active components are used. The temperature readings were recorded at eight different locations inside the enclosure and as a result average temperature rises were recorded at several power levels. Results reflect a test range of 10 to 50 Watts.

### **SET-UP:**

- Flush/Recess mounted
- 16 AWG steel enclosures and doors
- Three 0.25Ω resistors for 21" and 28" solutions, five 0.25Ω resistors for the 42" solution
- Eight LM34 temperature sensors located at various locations inside the enclosure
- One Agilent 34970A data acquisition unit
- One Tenma 72-6180A Power Supply
- Eight temperature sensor to record temperature inside the enclosure
- One temperature sensor to record external ambient temperature
- Testing done at ambient temperature of 72° F

### **CONCLUSION:**

The test results are for comparison only and demonstrate the difference between the two door designs. As a whole the vented door provides better heat dissipation than the standard solid door, particularly at power conditions greater than 30 Watts.

For additional product information please visit [www.suttlesoho.com](http://www.suttlesoho.com) or call us at 1-800-852-8662