Step 1: Determine the internal heat load in Watts. (See page 2)

Step 2: Determine temperature difference between the maximum temperature outside the enclosure and the maximum allowable temperature inside the enclosure.

Step 3: Plot your application on the chart.
   a) Find the internal heat load in Watts. (vertical scale)
   b) Draw a horizontal line to the point of intersection with the diagonal line representing temperature difference.
   c) From that point, extend a vertical line down to the horizontal scale to determine your CFM requirement.
   d) Continue the vertical line to the table to identify applicable filter fan package(s).

Step 4: Select the filter fan package and exhaust grille kit which best fits the application.

**Help Notes - Electronic Conversions:**
1 Watt = 3.413 BTU/hr
Volts x Amps = Watts

thermal management chart.pdf
An enclosure generates 550 Watts of internal heat. Maximum temperature inside the enclosure is 100°F. The maximum temperature outside the enclosure is 85°F.

**Step 1:** 550 Watts  
**Step 2:** 100°F - 85°F = 15°F  
(internal temperature difference)  
**Step 3:** Plot application.  
**Step 4:** Select best combination for filter and fan package(s) and exhaust grille kit(s).

**Alternate Method of Selection:**  
**Step 1:** Choose a filter fan package.  
**Step 2:** Draw a vertical line from the fan package.  
**Step 3:** Draw a horizontal line from the internal heat load in Watts.  
**Step 4:** The point of intersection is the approximate internal temperature difference using the selected fan package.

**SCE-FA/N12FA** (Fan Package)  
*Filter, Fan & Grille*  
**SCE-CF** (Cooling Fan)  
*Fan Motor & Finger Guard*  
**SCE-BP** (Blower Package)