



Technical

Empirical Guideline for Cartridge Heater Life

1. Record block operating temperature _____ 1. _____
2. Determine heater density-watts/square inch _____
3. Determine heater fit in block _____
4. From Chart A determine the delta T (Temperature drop) across block hole. _____ 4. _____
5. From Chart B determine the heater internal delta T (Temperature drop) _____ 5. _____
6. Add steps 1, 4 and 5 to determine approximate heater internal wire temp.
7. Figure estimated heater life from internal wire temperature based on the following table:

| <u>Internal Wire temp.</u> | <u>Approximate Life</u> |
|----------------------------|-------------------------|
| 1200° F or less | years |
| 1500° F | 2 years |
| 1600° F | 1 year |
| 1700° F | 3 months |
| 1800° F | 20 days |
| 1900° F | Less than 100 hours |

Chart "A"

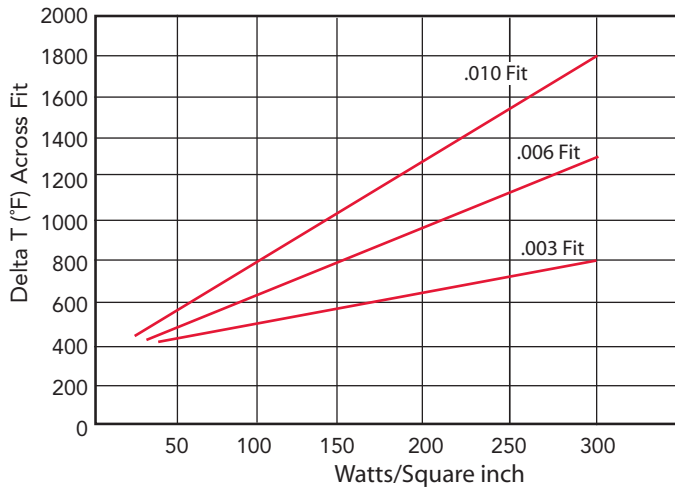


Chart "B"

