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Getter firing in corners of rectangular vacuum display

Objective Heat the getters located in each of four corners of a vacuum display. By flashing or firing the getter, the residual gases are removed from the inside of the display.

Material Four each 6 mm diameter getters in a 3" x 4.5" (76mm x 114mm) vacuum display

Temperature 1200 °F (649 °C)

Frequency 280 kHz

- Equipment Ambrell 5.0 kW induction heating system, equipped with a remote workhead containing two (2) 1.5 μF capacitors (for a total of 0.75 μF).
 - An induction heating coil, designed and developed specifically for this application.
 - **Process** A four turn helical coil is used to couple energy in the getter mounted below the glass plate. The getter glows bright red when heated to 1200 °F in two seconds. The getters in each corner are heated sequentially and other components in the display do not heat up.
- **Results/Benefits** Induction heating is the only way to heat the getters through the glass tube without heating the tube or other components. It provides:
 - Reliable, repeatable, non-contact heat.
 - Precision heating of very small areas.



Precision Induction Heating

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