

UNDERSTANDING CRA LINEAR ARRAYS

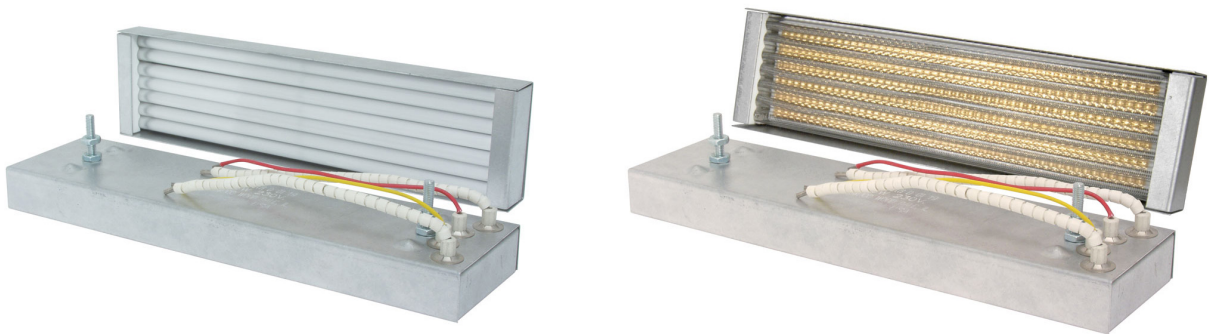


TEMPCO

WHAT ARE CRA LINEAR ARRAYS?

Tempco offers a wide variety of [infrared heating options](#), some of which can be mounted with CRA linear arrays. These arrays simplify mounting and assembly on production lines and can be fitted with several different ceramic and quartz style heaters. CRA's range in length from 10" to 100" depending on the heaters installed. Tempco's CRB, CRC, CRM, CRN, CRS, and CRZ ceramic heaters can be installed in different configurations to meet heating needs.

Similarly KTE and KTG can also be used with CRA's. Any of the KTE's or KTG's that are 2.46" wide can be fitted into a CRA. Quartz tube style heaters offer a faster response than their CR counter parts. Typically mounting style C is used with the ceramic header. Having this option also allows for interchangeability with CR style heaters with the same form factor as well if needed.



Examples of type KTE (Left) and type KTG (Right) mounted in a linear array

Finally CRA's can be fitted with [Gemini dual quartz tube heaters](#) (GEM). Typically one GEM heater runs the entire length of the CRA minus the end covers. The GEM option can simplify wiring as there is only one terminal block within the array for the single heater. GEM style CRA's however cannot be fitted with a thermocouple.

On the other hand arrays with CR or KT heaters can have one or more heaters within the array that either have a type K or J thermocouple. Each heater and each thermocouple wire is connected to its own ceramic terminal block. Tempco can also prewire the array upon request if needed. All CRA's have 5/16-18 mounting bolts on either end and additional mounting bolts can be placed along the length if requested. Tempco also offers replacement parts for these arrays, from heaters, reflectors, terminal blocks and more: it is simple and fast to replace any part in the array if needed.

Tempco's CRA's are considered linear arrays so while the length can vary the height and width is fixed at 3.46" by 3.88" respectively. If a configuration requiring multiple rows and columns of heaters is required Tempco also offers ARA style arrays for this.