

Components Overview

Component Heaters include the basic types of heating elements:

- Tubular Elements
- Thin Blade Heaters
- Strip Heaters
- Ring & Disc Heaters
- Band & Nozzle Heaters
- Cartridge Heaters
- Flexible Heaters
- Specialty Heaters



Component heaters may be used by themselves to solve many heating problems. They may also be incorporated into more complex heating systems, providing a complete thermal solution for your heating requirements.

Chromalox carries the widest selection of standard component heaters in many shapes, sizes and wattages. Chromalox is the "First Choice for Thermal Solutions".

Applications

With component heaters, most often the shape and size will be the determining factor in most heater applications. Brief descriptions of each heater type follow, with selection guidelines that lead to a detailed description on individual product pages.

Tubular heating elements perform exceptional heat transfer by conduction, convection or radiation to heat liquids, air, gases and surfaces. In most heater assemblies, tubular element design configurations vary — round, triangular, flat press and formed. Bends are made to customer requirements. Custom built from 0.200" to 0.625" diameters, a multitude of sheath materials with sheath temperature capabilities up to 1600°F, watt densities to fit many applications and up to 690 volts. Available with over 20 optional terminations and many stocked accessories.

Thin blade heater elements provide more surface area than standard tubular elements to offer greater wattage or lower watt densities. Select from many sheath materials with watt densities to 75 W/in² and sheath temperatures as high as 1200°F. Heating elements can be as long as 120" and are capable of being formed into many configurations for heating via immersion, direct surface contact or convection. Three wire construction within the element provides uniform heating. Available in single or 3-phase current terminations with a 120 to 240 volt range.