



Bayonet Heating Elements

Bayonet heating elements are a reliable and efficient solution for electric heating applications. These elements are custom designed for the voltage and input (KW) required to satisfy the application. There are a wide variety of configurations available in either large or small profiles. Mounting can be vertical or horizontal, with heat distribution selectively located according to the required process. Bayonet elements are designed with ribbon alloy and watt densities for furnace temperatures up to 1800°F (980°C).



Advantages

- Element replacement is fast and easy. Element changes can be made while the furnace is hot, following all plant safety procedures. All electrical and replacement connections can be made outside the furnace. No field welds are necessary; simple nut and bolt connections allow for quick replacements. In some cases, replacement can be completed in as little as 30 minutes depending on the size of the element complexity and accessibility.
- Each element is custom designed for peak energy efficiency. Furnace temperature, voltage, desired wattage and material selection are all used in the design process.
- Inspection of the elements can be performed outside the furnace.
- When necessary, as with a reducing atmosphere, bayonets can be operated in sealed alloy tubes.
- Repairing a SECO/WARWICK bayonet element may be an economical alternative. Consult us for current pricing and repair options.

Typical Configurations

Below are sample configurations. Lengths will vary with specifications. Standard diameters are 2-1/2" and 5". Placement of supports varies with the orientation and length of the element.

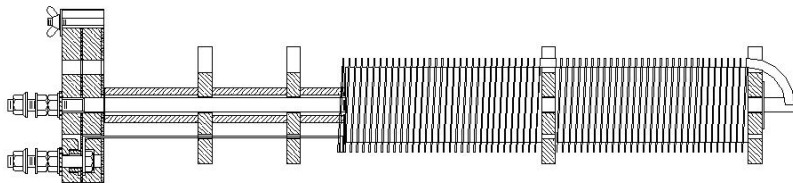
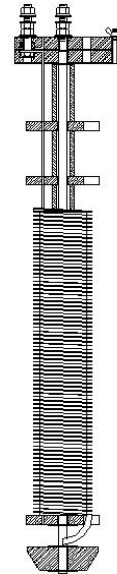
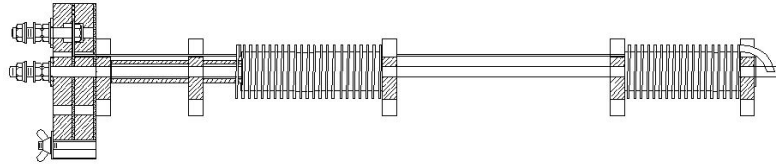
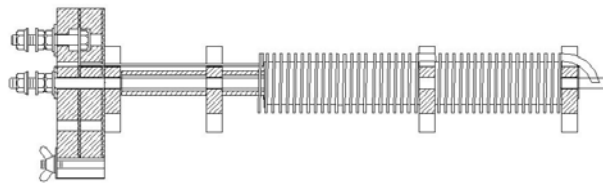


Figure 1 Horizontal Elements showing various locations for ceramic spacers



Product Bulletin

More horizontal samples and typical vertical element



Aftermarket Replacement

SECO/WARWICK provides bayonet elements for furnaces manufactured by other companies. Bayonet elements are also used to convert fuel fired furnaces to electric heating. E-mail info@secowarwick.com for more information or a quote.

Industrial Services

A wide range of services are available for our equipment. These include rebuild projects, field service, spare parts, equipment supply, control and combustion upgrades, and fabrication services. As a result of these services, we have provided our customers improved performance, lower emissions, better efficiency and enhanced product temperature uniformity.

About SECO/WARWICK

The SECO/WARWICK Group is one of the world's leading manufacturers of heat treatment furnaces and a technology leader. With our fully equipped research and development facility and cooperation with the leading academic centers in Europe, we are able to provide innovative solutions not offered anywhere else in the world.

The Group is made up of companies located in five countries on three continents, and we sell our products in 45 countries around the world. We supply furnaces to customers involved with steel, titanium and aluminum production as well as aluminum recycling, forging, automotive, aerospace, commercial heat treating, HVAC/R, electronics, wind energy, medical equipment and nuclear industries. Visit our website below for more information.

The latest design, materials, and equipment specifications should be obtained from the company before any reliance is placed on this standard bulletin since changes may occur due to product improvement.