

# Holding Bale-Out Furnaces

SINC Thermal holding furnaces provide a compact footprint at the point of use. These furnaces are available with a variety of heating systems including electric radiant elements, vertical or horizontally mounted immersion heaters or gas fired units.

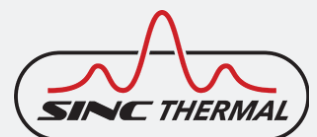
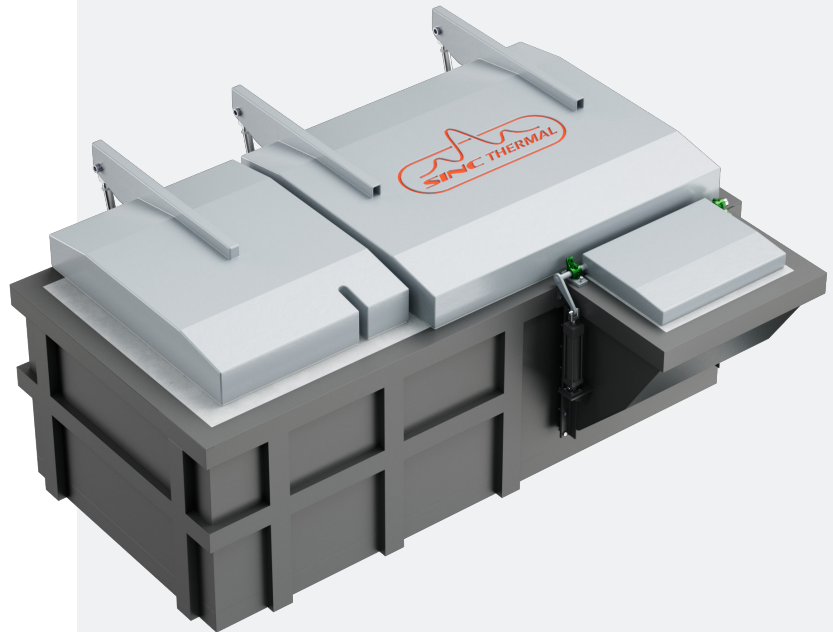
Roof mounted radiant elements or gas burners are the cheapest and simplest heating systems but lack the overall efficiency of immersion elements.

Additional cleaning to reduce oxidation levels can lead to excessive metal loss and corundum growth if not performed regularly.

Perfect for die cast or traditional foundry applications with an energy efficient lining that minimizes risk of metal infiltration to the furnace shell. SINC's compact design allows easy access for cleaning, quiet operation, and low heat loss for boosting energy efficiency while also improving the working environment for your operators.

SINC's standard holding furnaces feature multiple options for loading and bale out with custom configurations available to suit any application. Each SINC holding furnace is readily compatible with launder systems, pump systems, and automatic or manual ladle bale out systems. As standard options, SINC's holding furnaces readily accept filter plates, laser level probes, and multiple temperature monitoring points.

SINC Thermal offers a complete range of melting and holding furnaces along with accessory and peripheral equipment for all alloys and processes. All furnaces and equipment are proudly built in Missouri, USA.

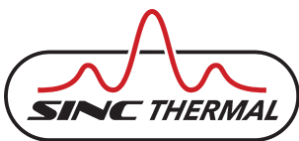
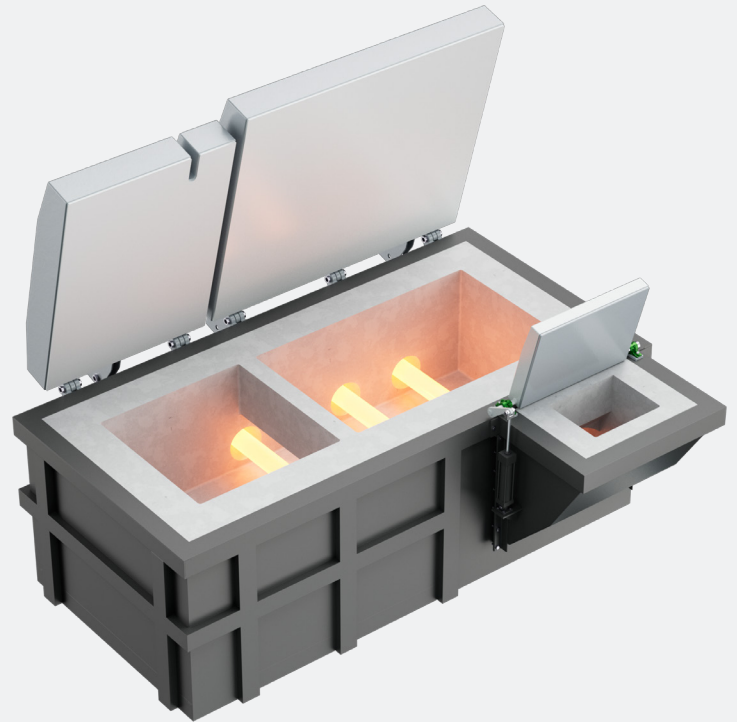


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## Immersion Configurations

Immersion heating designs overcome many of the traditional problems associated with radiant or gas fired holding furnaces by submerging the heating elements. This conduction method transfers heat directly into the molten aluminum, offering the most efficient heat transfer method for holding temperatures up to 1380°F (~750°C).

- Immersion heated furnaces also improve metal quality and reduce cleaning operations by maintaining uniform temperature and reducing oxides formation.
- Furnaces can be configured to suit customer and installation requirements with left hand, right hand or central fill points.
- The filling pocket is designed to promote metal flow and avoid stratification without unnecessary disturbances
- Heating element position can be configured to suit customer installation
- Horizontally installed through the side wall (left or right through the bath end wall, or vertically installed in the bath lid.
- A variety of options are also available to accommodate different operating conditions and temperatures.



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