WHY US?

Abbott Furnace Company has been designing, building, and installing industrial furnace systems for over 40 years. In that time, we've led the industry with innovative technologies that increase performance, improve efficiency, and allow reliable data tracking. Choosing one of our continuous belt furnaces is an investment that will enhance your operation, and choosing the S.M.A.R.T. system ensures compliance and efficiency.

ABBOTT FURNACE

LEAD WITH TECHNOLOGY.
SUCCEED WITH SERVICE.

LAB FURNACES

Abbott Furnace manufactures two types of custom-designed lab furnaces; a small single end lab furnace and manual push thru furnace. Offered for both types of lab furnaces are computerized monitoring and control systems that may supervise several different functions including furnace temperature, atmosphere flow, dew point, oxygen content, carbon control, belt speed, etc.

SINGLE END LAB FURNACE

This type of lab furnace is designed to provide controlled and uniform heating of materials within a confined space. The single end lab furnace has only one door through which materials can be placed in to enter and exit. A boat is pushed into the heat then pulled back into the cooling sections (area wrapped in copper tube) then pulled back out through the same door it went in.

Typical for this type of furnace is a single heating zone, a 2.5" tube muffle, and can be run at temperatures up to 2100^{0}F/1150^{0}C. A high-temperature version of this furnace is possible with a few upgrades to the standard lab furnace, allowing it to run up to 2400^{0}F/1315^{0}C. Single end lab furnaces are most commonly used for material development and testing.

PUSH THRU LAB FURNACE

This type of lab furnace is used to achieve controlled heating, heat treatment, and material testing under elevated temperatures. The push thru lab furnace has two doors, one on each end, much like a typical furnace.

The push thru lab furnace design offers flexibility to adjust time, temperature, and atmosphere profile for testing. This furnace can be multiple heating zones and a 4" tube muffle, and can be run at temperatures up to 2100^{0}F/1150^{0}C. A high-temperature version of this furnace is possible with a few upgrades to the standard lab furnace, allowing it to run up to 2400^{0}F/1315^{0}C.