



# SOLITAIRE CONVEYOR BELT FURNACES

RELIABILITY, EXPERTISE,  
SERVICE & SELECTION

Solitaire Conveyor Belt Furnaces are named for their compact design and popularity for brazing and bright annealing of jewelry pieces. The Solitaire is manufactured and shipped as a single piece, fully assembled, with single point connections for power, water and atmosphere. Installation couldn't be simpler.

With a standard 6" wide wire mesh belt, the Solitaire can be supplied for operation to 1800°F or 2100°F, and heated lengths to 72." Though compact, the Solitaire is a workhorse. Belt loading is variable, dependent upon production requirements, with 6 lbs per square foot standard.

## PROCESS FLEXIBILITY

These furnaces are capable of performing a wide variety of process applications, including:

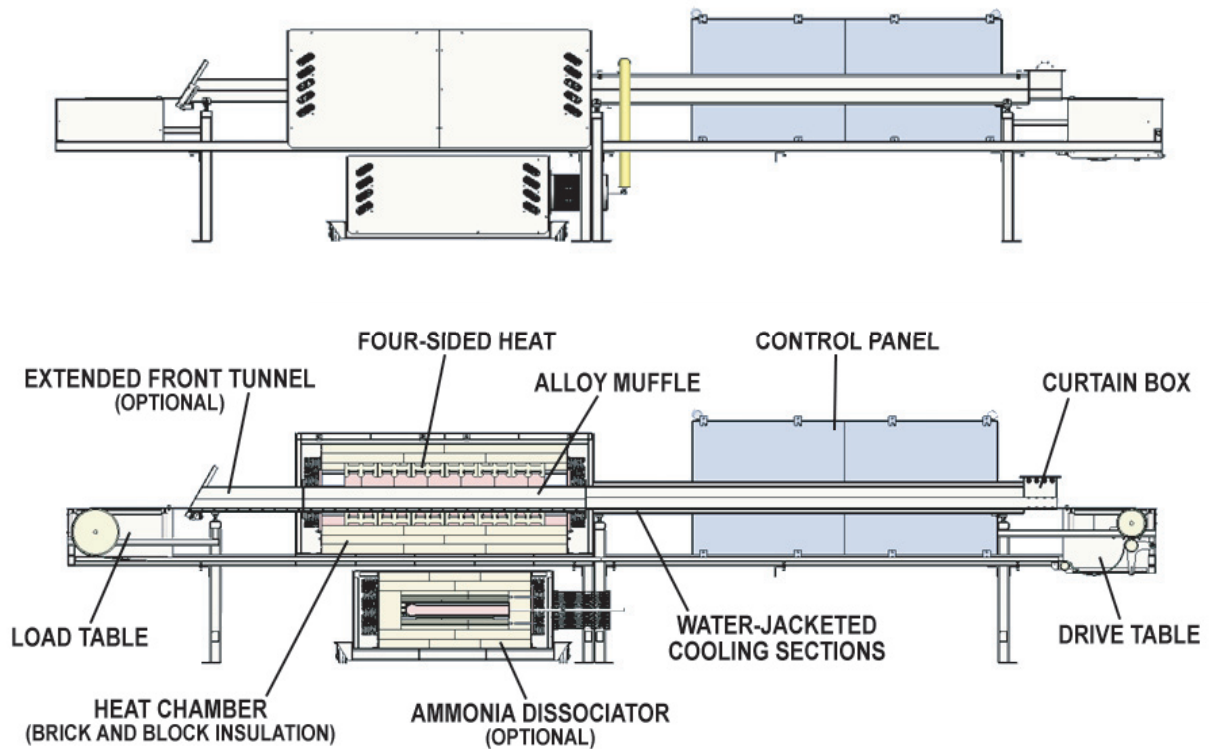
- Annealing
- Brazing
- Glass to Metal Sealing
- Hardening
- Sintering
- Soldering

## FURNACE DESIGN

The Solitaire Furnace is engineered with process and maintenance considerations in mind. Great uniformity is achieved across the belt by a robust brick/block insulation package (high heat storage) and a set of elements that are positioned on all four sides of the heating chamber. A metallic muffle extends through the heating chamber, which further enhances temperature uniformity across the belt. Consumables are designed for dependability and a long service life. Heating elements may be replaced without unpacking the furnace, and the muffle/cooling sections may be replaced with minimal downtime. Optionally, the furnace may be equipped with an integral ADL Ammonia Dissociator that would be positioned beneath the main furnace heating chamber. Built on casters, it too is designed for ease of maintenance.



MADE IN THE USA



<b>SPECIFICATIONS</b>	<b>LAC-MB-030627/ADL</b>	<b>LAC-MB-040654/ADL</b>
<i>Height (Above Belt)</i>	3" (76mm)	4" (101mm)
<i>Width (Across Belt)</i>	6" (152mm)	6" (152mm)
<i>Length (Heating Chamber)</i>	27" (685mm)	54" (1371mm)
<i>Hearth Level</i>	36" (914mm)	36" (914mm)
<i>Maximum Operating Temperature</i>	1800-2100°F (982-1148°C)	1800-2100°F (982-1148°C)
<i>Furnace Heating Elements</i>	6-Metallic Ribbon	6-Metallic Ribbon
<i>Dissociator Heating Elements</i>	6-Metallic Ribbon	6-Metallic Ribbon
<i>Connected Load</i>	33 KW	54 KW
<i>Power Supply</i>	230/3/60	230/3/60
<i>Conveyor Belt Material</i>	314 Stainless Steel	314 Stainless Steel
<i>Conveyor Belt Type</i>	Flat Mesh	Flat Mesh
<i>Maximum Belt Loading</i>	6#/Sq. Ft.	6#/Sq. Ft.
<i>Conveyor Drive</i>	Variable (0-20"/min)	Variable (0-20"/min)
<i>Muffle and Retort</i>	Inconel	Inconel
<i>Cooling Section</i>	Water-Cooled	Water-Cooled
<i>Maximum Backpressure</i>	5 PSIG	5 PSIG
<i>Ammonia Dissociator Output</i>	150 CFH	250 CFH
<i>Floor Space Requirements</i>	65"H x 27"W x 177"L (1651mm x 685mm x 4495mm)	55"H x 33"W x 270"L (1397mm x 838mm x 6858mm)