



## LINDBERG/MPH

Box Furnaces

### Car Bottom Furnace

Innovative Car Bottom Furnace design. Advanced, lightweight modular construction utilizing ceramic fiber modules Moldatherm® or equivalent brand) to achieve large-scale economies in a number of important areas. Temperature range to 1800°F.

Moldatherm® consists of a helically coiled, high-temperature alloy heating element vacuum-formed directly into a lightweight ceramic fiber insulation.

Moldatherm®'s low thermal conductivity allows use of thinner walls; the reduced mass requires much less power to bring the furnace up to temperature. In fact, the car bottom saves up to 30 percent of the energy required by conventional brick-lined car bottom furnaces.

Another advantage is exceptionally fast temperature response. The car bottom can go from room temperature in less time than a brick-lined furnace can go from idle to working temperature. With the car bottom, you don't have to waste energy on weekend or off-shift idling either. The furnace also allows, when available, maximum utilization of off-peak power rates.



#### ► Applications:

- Aging
- Annealing
- Austempering
- Hardening
- Normalizing

Model	Work Dimensions			kW	Overall Dimensions			
	Width	Length	Height		Width	Length	Height Door on Car	Height Vertical Lift Door
41-MT-5104-ECB-20	5'-0"	10'-0"	4'-0"	300	8'-8"	14'-6"	12'-6"	18'
41-MT-8107-ECB-20	8'-0"	10'-0"	7'-0"	490	11'-8"	14'-6"	15'-6"	24'
41-MT-112210-ECB-20	11'-0"	22'-0"	10'-0"	1280	14'-8"	26'-6"	18'-6"	30'
41-MT-14287-ECB-20	14'-0"	28'-0"	7'-0"	1320	17'-8"	32'-6"	15'-6"	24'
41-MT-144013-ECB-20	14'-0"	40'-0"	13'-0"	2600	17'-8"	44'-6"	21'-6"	36'

### ► Features/Benefits:

- Gas-fired models utilize medium-velocity gas/air burner combustion systems.
- Electric models utilize Moldatherm® insulation with embedded heating elements.
- Combustion system uses six medium velocity gas/air burners.
- Energy source can switch quickly between gas and electric.
- Modular construction for ease of installation
- Excellent efficiency in all types of cyclical work
- Accurate temperature control
- Excellent uniformity throughout work chamber
- Exceptional resistance to thermal shock
- Moldatherm® ceramic lining requires 30 percent less power to reach temperature compared to conventional refractory-lined car bottom furnaces.
- Easy to service
- Low maintenance
- Energy source versatility

### ► Options:

- Multiple temperature control zones
- Large recirculating fans
- Cooling systems

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Specifications and Product Information are subject to change without notice.