



MANUFACTURERS OF INDUSTRIAL HEAT TREATING FURNACES & OVENS

PRESS RELEASE

Lucifer Furnaces designs box furnace for auto safety products

Lucifer Furnaces, Warrington PA, has designed a furnace to meet the heavy loads of a supplier of automotive safety equipment. Model DL7-R24, a box furnace with a chamber size of 24”H x 24”W x 24”L was customized to support a 1000 lb. load of molds for heat treating at 750°F. Starting with a reinforced angle iron steel frame with heavy gauge sheet steel facing welded to form a rigid unit, the furnace is lined with 6 ½” insulating firebrick and mineral wool block on side walls and below hearth. Ceramic fiber pyroblock modules line the roof. Coiled wire heating elements in easy-to-replace holders are located on both side walls as stacked arrays. A special 1 ½” thick hearth plate was designed to sit atop heavy-duty piers to support the load, protect the floor insulation and provide a flat working surface. Safety features onboard include an auto-disengage feature to shut off power to heating elements when door is opened to eliminate electric shock hazard. Controls include Honeywell DC2500 microprocessor based digital time-proportioning temperature controller programmed with a single setpoint heat ramp. The furnace, part of Lucifer’s Series 7000 general purpose box furnaces, will be used for annealing steel and stress steel relief of die cast tool.

