

# The QuikLITE™ Oven



## Electric Halogen Short Wavelength Low Density

With its rapid response capability and standardized design, the QuikLITE™ oven can provide a cost effective quick curing solution for lower temperature applications and for dimensionally complex parts.

### The Emitter:

- A transparent quartz bulb, with a tungsten (T-3) filament and a built-in high temperature ceramic primary reflector, creating a long life near (short) wave infrared lamp.
- Located in the .75 to 1.5 micron band on the Electromagnetic Spectrum.
- Adheres to the “Halogen Cycle” – a chemical reaction whereby evaporated tungsten particles are returned to the filament, keeping the blackening of the bulb wall and/or the thinning of the tungsten filament to a very minimum.
- Offered in a singular 2500-watt bulb.
- Offered in a variety of voltages:
  - 240V, 480V and 600V

### The Heater Section:

- “Dual Reflector” system, as the emitter - with the built-in primary ceramic-backed reflector - is mounted within an anodized extruded aluminum secondary reflector, enabling virtually all the near (short) wave infrared heat to be efficiently focused.

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- The heater assembly, with dimensions of approximately 5.25”H x 29.25”L x 2.75”D (133 mm x 743 mm x 70 mm), includes a single 2500-watt bulb, with a fully adjustable reflector and protected by a removable aluminum mesh guard.
- Standard front-loading design for convenient access, including the “quik-snap” emitter-technology feature for easy maintenance.

### The Oven System:

- Configured in 3ft standard lengths within a (typically) frameless design.
- Standard configurations consist of emitters in a horizontal position across the top, in a vertical position along the sides or a combination of the two.
- Normally designed with emitters on 22.5” (572 mm) centers in height and/or width (enabling appropriate coverage on the product), 36” (914 mm) centers in length and an 18” emitter to substrate focal distance to assure the most even heat penetration possible into the coated surface.
- The emitter assemblies are flush mount within the interior oven wall, which are composed of 20-gauge, bright annealed 430 stainless steel panels, providing a highly durable and reflective surface which effectively redirects the radiant energy toward the substrate.
- Typically located between the emitter assemblies are air vents from which recirculated air is evenly disbursed across the surface of the substrate.
- Filtered air intakes are generally engineered within the inner top portion of the oven for the most efficient means for re-distribution of the heated air.
- The 4” (102 mm) space between the inner oven wall and the powder coated 20-gauge CRS steel outer panels creates the pre-engineered air plenum for appropriate air distribution throughout the oven chamber.
- Customized features available upon request or as the process dictates, including support frame or entry exit manual door panels (often required in batch-type production processes).
- Appropriate exhaust containment and capture.
- Includes a user-friendly control package with all required components for safe and efficient operation of the oven system (see page 20 for complete explanation of the many QuikCOMMAND features).

### The Uses and Benefits:

- The even heat patterning produced through the halogen bulb-based emitters, with the dual reflector system, makes the QuikLITE™ oven popular on heat sensitive substrates, such as those found in the woodworking industry on fine custom wood cabinet doors.
- Most effective in applications requiring surface temperatures in the 38°C to 82°C (100°F to 180°F) range, such as various solvent-based or water-based finish systems, particularly on wood and plastic substrates.
- Instant on/off response times makes the QuikLITE™ oven “substrate friendly”, with no fear of heat damage to the product during line stoppages.
- The standard package utilizes percentage timers but the quick response of the QuikLITE™ oven system also allows for “user friendly”, state-of-the-art control capability.
- Designed specifically as a highly effective, low cost curing solution for low temperature applications; shipped unassembled to save on shipping costs, easy to assemble with simple step-by-step instructions.

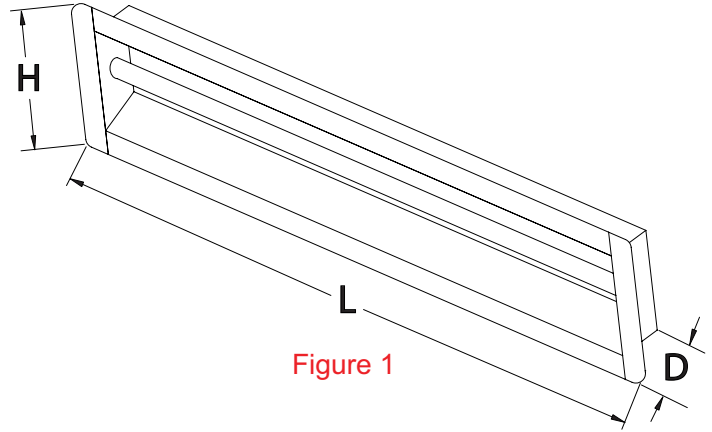


Figure 1

### The Heater Specifications:

Part No.	Series	Input (kW)	Size - in (mm)			Figure No.
			H	L	D	
QL1-2500	QL	2.5	5.25 (133)	29.25 (743)	2.75 (70)	1

**Note:**

208V, 240V, 480V and 600V are the standard available voltages.

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