

APPLICATIONS: Aerospace & Defense | Automotive | Energy & Power Generation | Glass & Ceramics Manufacturing | Materials Science & Research Labs | Metallurgy & Metalworking | Semiconductor, Quartz Fabrication & Electronics Manufacturing



Standard Model 255(K) Specifications

- **Oven Dimensions:** Standard size up to 12' long I.D. See Dimension Table for standard model ranges.
- **Temperature Range:** 0-1260°C (+/- 1°)
- **Time to Annealing Temp:** 15-20 minutes (workload dependent)
- **Heating Elements:** Proprietary design and placement optimizing heat, temperature control, and uniformity
- **Control Features:** Offers one to four channels of control, multiple PID sets, 40 ramp and soak profiles with real-time clock and battery backup
- **Power Requirements:** Specific model size dependent. Standard: Three phase power supply available on 208/220 volts, 18 KVA. (Other voltages available)
- **Power Consumption:** Energy-efficient design reduces power consumption by up to 50%
- **Electrical:** Compression connectors, flexible conduits, and 150% power factor wiring ensure durability and reliability
- **Regulation Compliance:** The advanced controls on Model 255K provide the ability for a user to export run cycle data for higher levels of documentation for compliance standards such as (CFR) Title 21 Part 11, if required
- **Weight:** Crated Weight: 3,000 lbs. Uncrated Weight: 2,800 lbs.
- **Agency Approvals:** NEMA 1 panel with all contactors and controls inside. UL®/EN 61010 Listed, File E185611 QUXX, UL® 508 Reviewed & CSA CC.C#14, File 158031



Features

- **Advanced Heating Elements:** The molybdenum elements resist aging, ensuring consistent performance and eliminating the need for frequent replacements. This not only extends the life of your oven but also ensures that failed elements can be replaced without affecting the performance of other elements.
- **Best in Class Advanced Temperature Control:** With a temperature range from 0 to 1260°C, the Model 255K offers precise control over the annealing process. The updated user interface ensures precise temperature accuracy, multi-loop control, and custom programming. Its intuitive touch-screen interface, real-time data logging, and flexible I/O options provide reliable control for demanding applications.
- **Data-Driven Decision Making:** The Model 255K comes with an intuitive user interface Process Controller that consolidates Temperature PID, data logger, trend chart, over/under-temperature limit, power switching, math, logic, timers and counters combined into a single integrated system
- **Rapid Heat-Up and Precise Control:** Achieve temperatures from ambient to 1260°C in as little as 15 minutes. The oven's control system includes proportional control with 40 ramp and soak programming with real-time clock and battery backup for optimal temperature management. The furnace bell can be programmed to open on cooldown, adding convenience to your operations.
- **Keeping You in the Know:** Email and text alerts notify users of an event that has occurred, such as a specific profile or step within a profile, alarm condition, limit condition, or analog input error. Plus, many communications options available, including EtherNet/IP™, Modbus® TCP (Ethernet) SCPI, and EIA-232/485 Modbus® RTU.
- **Flexible Design Options:** Available in various configurations, including bell or top hat, vertical front loading, cabinet, and rotary hearth designs. The oven can be customized to fit your specific needs, with sizes ranging up to 14 feet vertical and 24 feet horizontal.
- **Energy-Efficient Design:** The high-temperature ceramic fiber blanket insulation provides superior thermal performance, reducing heat storage and cutting power consumption in half compared to conventional refractory-lined ovens. This results in faster temperature cycling and significant energy savings.
- **Safety and Control:** The Model 255K is equipped with advanced safety features, including an Emergency Machine Off (EMO) circuit, overtemperature controller, and a panel-mounted emergency stop button. The Silicon Controlled Rectifier (SCR) power controller ensures proportional power control, enhancing safety and reliability.

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MODEL 255(K) ANNEALING



Model 255K Dimension Options in Inches

Oven Model Number	Wide	High	Deep	Total Cubic Area
255-60-24-24	60	34	24	34,560
255-72-24-24	72	24	24	41,472
255-48-36-24K	48	36	24	41,472
255-72-24-24K	72	24	24	41,472
255-60-36-36VK	60	36	36	77,760
255-10-30K	120	24	24	69,120
255-60-36-72	60	37	72	159,840
255-120-40-40K	120	40	40	192,000



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