

Forced Air Drying Oven 101 Series Electric Laboratory Heating Chamber

Item Number: KT-TE16



Introduction

Engineered for precise laboratory and industrial thermal processing, this forced air drying oven 101 series delivers stable 50 to 300 degree thermal uniformity, rapid moisture removal, durable construction, and dependable forced convection performance across five flexible chamber configurations.

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Application	Description	Key Benefit
Analytical Sample Desiccation	Removal of residual moisture from chemical reagents, soil samples, and biological powders prior to gravimetric analysis or spectroscopy.	Rapid, uniform moisture evaporation without thermal degradation, safeguarding sample purity and quantitative measurement accuracy.
Laboratory Glassware Decontamination & Drying	Thorough drying and thermal sanitization of volumetric flasks, beakers, pipettes, and metal tools post-wash.	Eliminates residual water droplet contamination and expedites turnaround times for continuous laboratory testing cycles.
Industrial Core & Mold Baking	Curing and pre-drying of foundry sand cores, ceramic green bodies, and refractory samples prior to high-temperature firing.	Minimizes structural stress cracking and eliminates internal voids by providing balanced, uniform hot-air circulation throughout the matrix.
Histology & Paraffin Wax Melting	Controlled melting and preparation of paraffin waxes, embedding compounds, and biological preservation mediums.	Prevents overheating or thermal degradation of delicate waxes through stable, tight temperature fluctuation control at set points.
Electronic Component Thermal Conditioning	Burn-in testing, potting resin curing, and thermal stress conditioning of printed circuit boards and semiconductor assemblies.	Validates component solder joint reliability and polymer curing kinetics without damaging sensitive electronic substrates.
Polymer & Resin Moisture Extraction	Pre-treatment drying of hygroscopic engineering plastic pellets (such as nylon, polycarbonate, and PEEK) prior to injection molding.	Prevents hydrolytic degradation, bubble formation, and structural weakness during thermoplastic extrusion and molding operations.
Mining & Geological Slurry Dehydration	High-throughput batch drying of crushed mineral ores, pulverized drill cores, and metallurgical slurries for assay determination.	High thermal efficiency and durable chamber volume accommodate heavy material masses without significant thermal recovery delays.

Technical Parameter	KT-TE16-0	KT-TE16-1	KT-TE16-2	KT-TE16-3	KT-TE16-4
Operating Temperature Range	50°C – 300°C	50°C – 300°C	50°C – 300°C	50°C – 300°C	50°C – 300°C
Temperature Fluctuation	±1°C	±1°C	±1°C	±1°C	±1°C
Temperature Uniformity	±2.5%	±2.5%	±2.5%	±2.5%	±2.5%
Heating Power Rating	0.5 kW	2.0 kW	2.4 kW	4.0 kW	6.0 kW
Electrical Voltage / Frequency	220V, 50Hz	220V, 50Hz	220V, 50Hz	380V, 50Hz	380V, 50Hz
Internal Chamber Width	350 mm	450 mm	550 mm	600 mm	800 mm
Internal Chamber Depth	350 mm	350 mm	450 mm	500 mm	800 mm

Technical Parameter	KT-TE16-0	KT-TE16-1	KT-TE16-2	KT-TE16-3	KT-TE16-4
Internal Chamber Height	350 mm	450 mm	550 mm	750 mm	1000 mm
Approximate Chamber Volume	43 Liters	71 Liters	136 Liters	225 Liters	640 Liters
Circulation Mechanism	Forced Convection Motorized Blower	Forced Convection Motorized Blower	Forced Convection Motorized Blower	Forced Convection Motorized Blower	Forced Convection Motorized Blower
Thermal Exchange Principle	Electric Heating with Forced Air Uniform Exchange	Electric Heating with Forced Air Uniform Exchange	Electric Heating with Forced Air Uniform Exchange	Electric Heating with Forced Air Uniform Exchange	Electric Heating with Forced Air Uniform Exchange