

Thermostatic Drying Oven 202 Series For Laboratory Baking And Moisture Determination

Item Number: KT-TE15



Introduction

Engineered for precise laboratory drying, baking, and coal moisture testing, this thermostatic drying oven features PID digital control, dual-layer observation windows, and durable chambers operating up to 250°C with exceptional thermal stability and uniform air distribution across all samples.

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Application	Description	Key Benefit
Coal Moisture Determination	Desiccating pulverized coal samples under stable heating to quantify inherent and total moisture percentages according to standard ASTM/ISO testing methods.	Consistent ±2.5% temperature uniformity eliminates regional hot zones, preventing volatile loss and sample carbonization during gravimetric assays.
Mining & Mineral Ore Drying	Removing moisture from geological core samples, mineral slimes, and crushed rock specimens prior to chemical digestion, sieving, or XRF/XRD analysis.	Heavy-duty internal shelving holds up to 15 kg per layer, easily bearing high-density mineral specimens without shelf deflection.
Glassware & Tool Decontamination	Sterilizing, evaporating wash liquids, and thoroughly baking laboratory glassware, volumetric pipettes, metal dies, and surgical apparatus.	Top exhaust damper efficiently vents high volumes of vaporized rinse water, accelerating cycle turnaround times.
Industrial Component Baking	Curing, conditioning, and pre-heating mechanical fasteners, electrical assemblies, and polymer coatings within manufacturing QA/QC processes.	Dual-layer tempered glass window allows visual inspection of adhesive setting and thermal deformation without opening the chamber door.
Pharmaceutical & Chemical R&D	Moisture testing of dry chemical powders, excipients, and raw compounds requiring non-destructive heat processing up to 250°C.	Type B stainless steel interior resists chemical degradation from mildly corrosive volatile emissions during long-term desiccation.
Academic & Environmental Testing	Thermal preparation of environmental soil samples, wastewater sludge cakes, and educational laboratory specimens.	Streamlined digital PID control interface allows rapid parameter setup by multiple rotating operators with minimal training requirements.

Technical Parameter	KT-TE15-00	KT-TE15-0	KT-TE15-1	KT-TE15-2	KT-TE15-3
Model Variant Identification	KT-TE15-00A / KT-TE15-00B	KT-TE15-0A / KT-TE15-0B	KT-TE15-1A / KT-TE15-1B	KT-TE15-2A / KT-TE15-2B	KT-TE15-3A / KT-TE15-3B
Operating Voltage	220V, 50Hz	220V, 50Hz	220V, 50Hz	220V, 50Hz	220V, 50Hz
Temperature Control Range	Ambient +20°C to 250°C	Ambient +20°C to 250°C	Ambient +20°C to 250°C	Ambient +20°C to 250°C	Ambient +20°C to 250°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%
Rated Heating Power	0.6 kW	1.2 kW	1.6 kW	2.0 kW	4.0 kW
Internal Chamber Dimensions (W × D × H)	280 × 280 × 280 mm	350 × 350 × 350 mm	450 × 450 × 350 mm	550 × 550 × 450 mm	750 × 600 × 500 mm
Chamber Construction (Type A)	Anti-corrosion cold-rolled steel	Anti-corrosion cold-rolled steel	Anti-corrosion cold-rolled steel	Anti-corrosion cold-rolled steel	Anti-corrosion cold-rolled steel

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Chamber Construction (Type B)	High-grade stainless steel	High-grade stainless steel	High-grade stainless steel	High-grade stainless steel	High-grade stainless steel
Exterior Cabinet Material	Cold-rolled steel with electrostatic coating	Cold-rolled steel with electrostatic coating	Cold-rolled steel with electrostatic coating	Cold-rolled steel with electrostatic coating	Cold-rolled steel with electrostatic coating
Observation Window	Dual-layer tempered glass pane	Dual-layer tempered glass pane	Dual-layer tempered glass pane	Dual-layer tempered glass pane	Dual-layer tempered glass pane
Door Perimeter Sealing	High-temperature synthetic rubber strip	High-temperature synthetic rubber strip	High-temperature synthetic rubber strip	High-temperature synthetic rubber strip	High-temperature synthetic rubber strip
Control Architecture	PID digital controller with time-proportional regulation	PID digital controller with time-proportional regulation	PID digital controller with time-proportional regulation	PID digital controller with time-proportional regulation	PID digital controller with time-proportional regulation
Temperature Sensor Type	Platinum resistance sensor	Platinum resistance sensor	Platinum resistance sensor	Platinum resistance sensor	Platinum resistance sensor
Moisture Exhaust System	Top-mounted adjustable manual damper	Top-mounted adjustable manual damper	Top-mounted adjustable manual damper	Top-mounted adjustable manual damper	Top-mounted adjustable manual damper
Shelf Load Bearing Capacity	15 kg / shelf	15 kg / shelf	15 kg / shelf	15 kg / shelf	15 kg / shelf