

DI Series Universal Electric Furnace Multi Position Benchtop Heating Unit

Item Number: KT-WDL



Introduction

Designed for demanding industrial and laboratory environments this DL series universal electric furnace provides reliable electronic temperature control robust powder coated steel housing and flexible multi position heating configurations to ensure consistent repeatable thermal processing across all testing applications.

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Application	Description	Key Benefit
Mining and Ore Mineral Assays	Acid digestions, ore sample dissolution, and metallurgical leaching carried out in industrial mining laboratories.	High thermal output accelerates chemical decomposition of tough mineral matrices, while multi-position models handle batch digestions simultaneously.
Agricultural Soil and Crop Testing	Kjeldahl nitrogen estimations, soil nutrient extractions, and plant tissue digestion procedures in agronomic test stations.	Independent station control allows precise temperature matching for different soil reagents, preventing sample boiling over or uneven digestion.
Chemical Synthesis and Reflux Reactions	Organic synthesis, solvent distillation, continuous extraction, and refluxing using standard round-bottom laboratory flasks.	Direct radiant and conductive heating eliminates hot spots, minimizing thermal decomposition of sensitive organic intermediates.
Environmental Water and Wastewater Monitoring	Digestion of wastewater samples for Chemical Oxygen Demand (COD), heavy metal trace analysis, and sample pre-concentration.	Rugged continuous-duty heating elements maintain steady boiling thresholds across multi-hour testing protocols without power fluctuations.
Clinical and Medical Diagnostic Sample Prep	Gentle reagent dissolution, culture media preparation, biological buffer heating, and sample evaporation in healthcare laboratories.	Stepless electronic regulation allows delicate temperature management, protecting heat-sensitive proteins, broths, and active compounds.
Industrial Petrochemical and Quality Control	Sample tempering, petroleum product heating, wax melting, and quality assurance testing across industrial manufacturing sites.	Heavy-duty cold-rolled steel casing withstands demanding shop-floor testing environments and mechanical vibrations without chassis fatigue.
Academic and University Instructional Labs	Educational chemistry demonstrations, student lab experiments, and basic physical science heating procedures.	Simple analog-style electronic controls and robust enclosed heating elements minimize operator error and withstand frequent student handling.

Parameter	KT-WDL-1 (1000W)	KT-WDL-1 (2000W)	KT-WDL-2	KT-WDL-4	KT-WDL-6
Equipment Classification	Universal Electric Furnace	Universal Electric Furnace	Universal Electric Furnace	Universal Electric Furnace	Universal Electric Furnace
Station Configuration	Single Position (□□)	Single Position (□□)	Dual Position (□□)	Four Position (□□)	Six Position (□□)
Total Rated Power	1000 W	2000 W	2000 W (2 × 1000 W)	4000 W (4 × 1000 W)	6000 W (6 × 1000 W)
Per-Station Power Rating	1000 W	2000 W	1000 W per station	1000 W per station	1000 W per station
Temperature Control Mode	Electronic stepless regulation	Electronic stepless regulation	Independent electronic stepless	Independent electronic stepless	Independent electronic stepless
Control Interface	Rotary electronic regulator dial	Rotary electronic regulator dial	Dual individual rotary dials	Four individual rotary dials	Six individual rotary dials
Housing Construction	Cold-rolled sheet steel plate	Cold-rolled sheet steel plate	Cold-rolled sheet steel plate	Cold-rolled sheet steel plate	Cold-rolled sheet steel plate

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Surface Finishing Treatment	Electrostatic powder spray coating	Electrostatic powder spray coating	Electrostatic powder spray coating	Electrostatic powder spray coating	Electrostatic powder spray coating
Thermal Insulation Type	High-density refractory ceramic	High-density refractory ceramic	High-density refractory ceramic	High-density refractory ceramic	High-density refractory ceramic
Rated Operating Voltage	220V AC $\pm 10\%$, 50/60 Hz	220V AC $\pm 10\%$, 50/60 Hz	220V AC $\pm 10\%$, 50/60 Hz	220V AC $\pm 10\%$, 50/60 Hz	220V AC $\pm 10\%$, 50/60 Hz
Vessel Compatibility	Round-bottom flasks & beakers	Round-bottom flasks & beakers	Round-bottom flasks & beakers	Round-bottom flasks & beakers	Round-bottom flasks & beakers
Applicable Environments	Industrial, Mining, Academies, Labs	Industrial, Mining, Academies, Labs	Industrial, Mining, Academies, Labs	Industrial, Mining, Academies, Labs	Industrial, Mining, Academies, Labs