

Digital Display Electric Hot Plate Laboratory Heating Plate

Item Number: KT-ML



Introduction

Engineered for demanding laboratory environments, this digital display electric hot plate delivers rapid heating up to 380°C. Featuring dual sensors, intelligent control, and corrosion-resistant plates, it provides reliable thermal stability.

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Application	Description	Key Benefit
Acid Digestion & Wet Chemistry	Heating sample mixtures with concentrated acids in beakers or digestion flasks for elemental trace analysis.	Corrosion-resistant top plate withstands acidic vapors while uniform heat accelerates mineral matrix decomposition.
Mining Ore Assaying	Thermal preparation, roasting, and dissolution of pulverized ore and metallurgical core samples in extraction labs.	Heavy cast steel surface maintains thermal stability when loaded with high-density mineral vessels up to 380°C.
Biochemical Reagent Preparation	Constant-temperature incubation, agar dissolution, and reagent heating for microbiological and medical testing.	Intelligent dual-sensor control prevents temperature overshoot, protecting sensitive enzymatic reagents and culture media.
Moisture Determination & Drying	Desiccating solid samples, sludges, soil cores, and food products to evaluate moisture loss and dry matter content.	Enclosed heating assembly provides stable, predictable surface temperatures for precise gravimetric drying tests.
Polymer & Electronic Coating Curing	Baking photoresists, adhesives, thick-film inks, and specialized protective coatings onto substrate wafers or test coupons.	Flat, precision-machined heating plate ensures uniform thermal exposure across the entire surface area.

Reagent Boiling & Evaporation	Controlled solvent evaporation, concentration of chemical solutions, and general laboratory liquid heating.	Electronic power modulation allows smooth transitions from gentle evaporation to vigorous boiling without open flames.
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Specification Parameter	KT-ML-1.5-4	KT-ML-2-4	KT-ML-3-4	KT-SKML-1.5-4	KT-SKML-2-4	KT-SKML-3-4
Control System Architecture	Electronic Voltage Regulation	Electronic Voltage Regulation	Electronic Voltage Regulation	Intelligent Digital Microprocessor	Intelligent Digital Microprocessor	Intelligent Digital Microprocessor
Temperature Sensor Configuration	Single Circuit Regulatory Control	Single Circuit Regulatory Control	Single Circuit Regulatory Control	Dual Integrated Temperature Sensors	Dual Integrated Temperature Sensors	Dual Integrated Temperature Sensors
Usable Surface Dimensions (mm)	400 × 280	450 × 350	600 × 400	400 × 280	450 × 350	600 × 400
Operating Voltage	AC 220V 50Hz	AC 220V 50Hz	AC 220V 50Hz	AC 220V 50Hz	AC 220V 50Hz	AC 220V 50Hz
Power Rating (kW)	0 ~ 1.5	0 ~ 2.0	0 ~ 3.0	1.5	2.0	3.0
Maximum Operating Temperature (°C)	380	380	380	380	380	380
Heating Element Type	Enclosed Flameless	Enclosed Flameless	Enclosed Flameless	Enclosed Flameless	Enclosed Flameless	Enclosed Flameless
Plate Material Metallurgy	Stainless Steel / Cast Steel	Stainless Steel / Cast Steel	Stainless Steel / Cast Steel	Stainless Steel / Cast Steel	Stainless Steel / Cast Steel	Stainless Steel / Cast Steel
Plate Surface Finish	Anti-Corrosion Treatment	Anti-Corrosion Treatment	Anti-Corrosion Treatment	Anti-Corrosion Treatment	Anti-Corrosion Treatment	Anti-Corrosion Treatment
Chassis Construction	Stamped Cold-Rolled Steel	Stamped Cold-Rolled Steel	Stamped Cold-Rolled Steel	Stamped Cold-Rolled Steel	Stamped Cold-Rolled Steel	Stamped Cold-Rolled Steel

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Chassis Protective Finish	Electrostatic Spray Coating	Electrostatic Spray Coating	Electrostatic Spray Coating	Electrostatic Spray Coating	Electrostatic Spray Coating	Electrostatic Spray Coating