

Electric Thermostatic Water Bath Laboratory Constant Temperature Heating Bath

Item Number: KT-YG

Introduction

Engineered for industrial laboratories, this electric thermostatic water bath delivers uniform heating up to 100 C with high accuracy, ensuring dependable sample distillation, concentration, drying, and routine thermal processing across analytical workstations.

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Application	Description	Key Benefit
Coal & Coke Quality Analysis	Preparation of volatile matter, moisture determination, and solvent extraction under continuous temperature control.	Prevents sample degradation and ensures compliance with standard industrial coal-testing protocols.
Steel & Metallurgical Testing	Digestion of raw alloy samples, acid dissolution of scrap metals, and reagent heating for chemical analysis.	Accelerates sample dissolution rates while providing stable thermal conditions for acid digestion.
Mining & Geological Assaying	Mineral leaching, ore sample digestion, and steady evaporation of acidic leachates prior to spectroscopy.	Sustains constant heat under continuous duty cycles without element degradation from corrosive vapors.
Medical & Clinical Research	Thermal incubation of reagents, biochemical assays, physiological warming, and substrate preparation.	Delivers ±0.5°C thermal precision to safeguard temperature-sensitive biological and clinical samples.
Distillation & Solvent Evaporation	Indirect heating of distillation assemblies, solvent recovery glassware, and reflux extraction units.	Eliminates open-flame hazards during solvent handling, providing a safe laboratory environment.
Chemical Concentration & Drying	Gentle evaporation of solvents, drying of precipitates, and concentration of non-volatile solutions.	Uniform heat transfer avoids sample boiling over or localized thermal degradation of target compounds.
Analytical Instrument Conditioning	Thermal equilibration of samples prior to viscometry, refractometry, and preparatory electrophoresis runs.	Guarantees standard temperature baselines for consistent optical, fluidic, and electrical measurements.

Parameter	KT-YG-1-2	KT-YG-1-4	KT-YG-2-4	KT-YG-1-6	KT-YG-2-6	KT-YG-2-8
Opening Layout	Single Row, 2 Openings	Single Row, 4 Openings	Double Row, 4 Openings	Single Row, 6 Openings	Double Row, 6 Openings	Double Row, 8 Openings
Number of Wells	2 Wells	4 Wells	4 Wells (2×2)	6 Wells	6 Wells (2×3)	8 Wells (2×4)
Heating Power (W)	500 W	1000 W	1000 W	1500 W	1500 W	2000 W
Temperature Control Range	Room Temp ~ 100°C	Room Temp ~ 100°C	Room Temp ~ 100°C	Room Temp ~ 100°C	Room Temp ~ 100°C	Room Temp ~ 100°C
Temperature Control Accuracy	±0.5°C	±0.5°C	±0.5°C	±0.5°C	±0.5°C	±0.5°C
Electrical Power Supply	220V · 50Hz	220V · 50Hz	220V · 50Hz	220V · 50Hz	220V · 50Hz	220V · 50Hz
Vessel Interface	Concentric Rings	Concentric Rings	Concentric Rings	Concentric Rings	Concentric Rings	Concentric Rings

Specification Category	Design Standard & Engineering Metric
Operating Temperature Span	Ambient +5°C to 100°C (Water Media)

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Temperature Sensing Element	High-precision industrial thermal sensor with rapid response feedback
Chamber Construction	Seamless drawn stainless steel interior liner with rounded hygienic corners
Exterior Finish	Electrostatic powder-coated cold-rolled steel resistant to laboratory chemicals
Port Adaptability	Multi-piece removable concentric ring sets for micro to large vessels
Electrical Protection	Built-in thermal cut-off circuit and grounded power connectivity (220V, 50Hz)
Heating Mechanism	Shielded tubular immersion heating element for optimized thermal convection