BIOBASE®

Thermal Gravimetric Analyzer

Application:

Thermogravimetric analysis (TG, TGA) monitors changes in sample mass over time and temperature during heating, temperature control, or cooling processes. Its purpose is to investigate the thermal stability and composition of materials. It is widely used in research and development, process optimization, and quality control in various fields, including plastics, rubber, coatings, pharmaceuticals, catalysts, inorganic materials, metal materials, and composite materials.

Features:

* The furnace heating system utilizes dual rows of winding made from precious metal alloy wires, reducing interference and enhancing high-temperature resistance.
* The tray sensor is precision-engineered from precious metal alloy discs, offering advantages such as high-temperature resistance, oxidation resistance, and corrosion resistance.
* The power supply and circulating heat dissipation components are separated from the main unit, minimizing the impact of heat and vibration on the micro-thermobalance.
* The top-open lid design facilitates easy operation and includes an exhaust gas output port for easy expansion and connection to external equipment such as infrared analyzers.
* The main unit is designed to isolate the heating furnace's thermal effects on the chassis and the micro-thermobalance.
* The furnace incorporates dual insulation, ensuring better linearity.

Features:

Model	BK-TGA101
Temperature Range	RT~1150℃
Temperature Resolution	0.01℃
Temperature Fluctuation	±0.1℃
Heating Rate	0.1~100℃/min
Temperature Control Method	PID algorithm control, heating and constant temperature
Constant Temperature Time	0~300min, arbitrarily set
TG Measurement Range	0.01mg~3g, can be expanded to 30g
Weighing System Accuracy	0.01mg
Power Supply	Standard: AC220V 50/60Hz, optional: AC110V 50/60Hz
External Size(L*W*H)	460*512*430mm
Net Weight	26.5kg
Packing Size(L*W*H)	660*590*500mm
Gross Weight	42.1kg