

Dedicated to be a leading supplier in smart laboratory



XT-9930 Microwave Digestion System

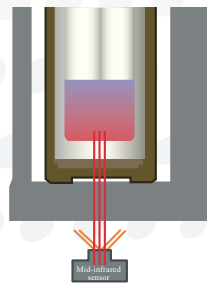


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Microwave digestion, known as "green chemical reaction technology", is characterized by rapid and complete sample decomposition, small loss of volatile elements, low reagent consumption, simple operation, high treatment efficiency, low pollution and low blank. XT-9930 Microwave Digestion System is forged through the technological accumulation of mid-infrared temperature control of microwave over the past decade. It is a microwave digestion system applicable for laboratories and various circumstances, with multiple safety protections and a wide range of applications.

Comprehensive safety performance for large-batch digestion

01 A decade of technological accumulation of mid-infrared temperature control of microwave

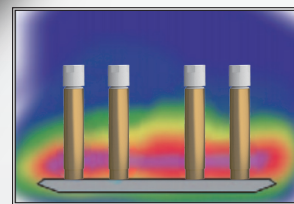


— Mid-infrared wavelength light capable of penetrating the vessels
— Other wavelengths of light radiated from the surface of vessels

02 Explosion-proof cylinder chamber
High strength aluminum alloy top cover carved from CNC



03 Bottom microwave feeding
Enabling the microwave energy received in a more uniform and effective manner by the sample



Microwave Technology Accumulation

- Microwave is fed from the bottom and concentrated in the sample area, which enables more effective use of microwave energy.
- It is suitable for multi circle sample distribution, with the temperature remains uniform among both inner and outer circles of samples.

Safety Protection

- Explosion-proof cylinder chamber, high strength aluminum alloy upper cover carved from CNC.
- Both mechanical and electronic door lock are equipped to give equal consideration to safety and convenience.
- Up to 10 active and passive safety features.

Pressure Monitoring

- Use non-contact pressure control system to monitor the real-time pressure of all reacting vessels, and the pressure change of all digestion vessels is displayed.

Convenient Operation

- Automatic identification of digestion rotors and vessels, as well as sample quantity.
- Top rotary translational furnace door, samples being loaded or unloaded from the top.

Batch processing

- Able to process 12 and 16 high-pressure samples, 42 high-throughput samples simultaneously.
- Cylinder 316L stainless steel furnace chamber, the inner surface is coated with multi-layer PFA corrosion resistant material, and the whole furnace chamber is welded by laser, with a volume of 75L.

Temperature Monitoring

- Utilize mid-infrared non-contact temperature sensor capable of penetrating TFM material, to scan and monitor the actual temperature of all sample solutions in real time and display the temperature change curve.

Smart Control

- Full touch screen control, various working parameters and status showed on screen in real time (temperature, pressure changes, etc.).
- More than 250 digestion method parameters can be set, modified and stored at any time.
- Various built-in functions, such as multi-level user interface management, power correction, temperature calibration and history recording.

Application

It is applicable for fields such as food, environmental monitoring, agricultural products, drugs, cosmetics, textiles, geology, metallurgy, plastics, coal, petrochemical, biological medicine and battery manufacturing

