



MICROWAVE DIGESTER BEM-20103

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1. Microwave non-pulse continuous automatic frequency conversion control, 0 ~ 100% automatic output.
2. Vertical bidirectional waveguide design, 3D output technology, and matching harmonic power frequency achieve a high degree of field uniformity.
3. SUS316 stainless steel chamber.
4. Self-locking buffer explosion-proof furnace door, when the reaction is abnormal, buffer structure to ensure the operator's personal safety and integrity of the door structure.
5. 8" TFT-LED touch screen display the temperature and pressure curve in real time.
6. 360° continuous rotation in the same direction, microwave uniformity, to ensure that the microwave environment of each sample is the same, improve the consistency.

SPECIFICATIONS

Model	BEM-20103
Chamber	72L, SS316
Microwave Source	Professional microwave source, industrial microwave power supply
Microwave Frequency	2450 MHz
Microwave Output Power	1400~2800W
Display	8" TFT-LED touch screen
Max. Temp.	300°C
Temp. Accuracy	±0.5°C
Max. Pressure	15MPa
Pressure Accuracy	±0.01Mpa
Temperature Sensor	Non-contact infrared temperature sensor
Vessel Quantity Capacity	40 Vessels
Vessel Volume	70ml(Standard), 100ml(Optional)
Vessel Material	Vessel made of TFM, explosion-proof outer vessel made of PEEK aerospace composite material
Cooling Method	Forced air cooling
Standard	Turntable bracket, PEEK explosion-proof outer40, TFM inner vessel40, infrared temperature sensor2, graphite acid evaporator2, transfer inner vessel bracket*2, spanner
Consumption	2800W
Power Supply	AC220±10%, 50/60Hz (Standard); AC110V,60Hz (Optional)
External Size (W*D*H)	720*720*800mm
Package Size (W*D*H)	Main Body: 800*800*950mm; Accessory: 200*250*250mm; 200*250*250mm
Gross Weight	Main Body: 100kg; Accessory: 20kg; 20kg
Alt Name	Microwave Digester

FEATURES

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3. SUS316 stainless steel chamber.
4. Self-locking buffer explosion-proof furnace door, when the reaction is abnormal, buffer structure to ensure the operator's personal safety and integrity of the door structure.

5. 8" TFT-LED touch screen display the temperature and pressure curve in real time.
6. 360° continuous rotation in the same direction, microwave uniformity, to ensure that the microwave environment of each sample is the same, improve the consistency of experimental results.
7. Non-contact infrared temperature control system and non-contact pressure control system.
8. Exhaust and cooling system: acid-resistant centrifugal fan, exhaust air volume is not less than 5m³/min; With air cooling function, continuous cooling for the reaction vessel, temperature and pressure real-time display.
9. With fault self-test system, when the temperature or pressure control system fails, the instrument will automatically cut off the microwave emission, and alarm.
10. The material is TFM for the inner vessel and PEEK aerospace composite material for the vessel explosion-proof outer casing.

APPLICATIONS

The microwave digestion system provides a fast, safe and automatic solution for samples, accelerates the speed of sample digestion reaction under high pressure conditions.

It is widely used in food, textile, plastic, geological, metallurgical, coal, biological medicine, petroleum chemical industry, environmental monitoring, sewage treatment, battery manufacturing, cosmetics, etc.



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